

# SAN DIEGO MESA COLLEGE

## 2020–2021 CATALOG

Fall 2020, Spring 2021, Summer 2021

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. GED is a registered trademark of the American Council on Education and may not be used or reproduced without express written permission of the American Council on Education.



## President's Message

Welcome to San Diego Mesa College! As the Leading College of Equity and Excellence, Mesa College creates a welcoming and inclusive environment—one that specializes in helping our students not only succeed academically, but have a sense of belonging. Mesa has a reputation of being the region's go-to college if you are looking to transfer. In 2016, Mesa College was named the top community college in California for transfer to the California State University system. With nearly thirty career education degrees and certificate programs, we also specialize in preparing graduates to enter the workforce and earn an excellent salary.

At Mesa College, students will find a wide and diverse array of day, evening, weekend, and online courses leading to 196 Associate in Arts degrees, Associate in Science degrees, and certificate programs. Students may also pursue courses and programs of general interest. As one of the largest and most successful of California's 115 community colleges, Mesa College takes pride in its high academic standards, its excellent programs and services, and commitment to student success and equity. You can be a Mesa student on campus or from wherever you study. Counselors and tutors are available in person and online, and you can access us when you have time.

Mesa College offers one of 15 Bachelor's degree programs in California's Community Colleges – ours is in Health Information Management. You can enter the two-year program in Health Information Technology and move right into the 4-year program after completion.

Mesa College also has a vibrant campus life. The College has 21 sports, a speech and debate team, dance and a theatre arts companies, literature and writing, and an honors program. We are a proud Hispanic Serving Institution and military friendly, with specific facilities and support programs to serve these students.

The College has excellent programs in STEM, and a STEM Center focused on supporting students in those majors. We have multiple new buildings to support student success – including our Exercise Science Center, Mesa Commons, Computer and Business Technology Center and our Fine Arts Building. All of these spaces were designed with student success in mind.

This catalog will provide you with complete information about the college's programs, courses, requirements, and policies. You will find information about the college's services for students; counseling, library and media services, tutorial services, child care, financial aid, health services, and special services for students with disabilities. 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. We are dedicated to making your Mesa College experience a memorable and rewarding one, focused on your needs and supporting you in reaching your goals.

*Pamela T. Luster*

Pamela T. Luster, Ed.D.

President

## Board of Trustees

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*The Associated Student Government (ASG) elections are held at the end of the Spring semester. The ASG Presidents from City, Mesa, and Miramar colleges serve as the student members of the Board of Trustees.*

**Chancellor and Secretary to the Board**  
Constance M. Carroll, Ph.D.

## District Administration

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

**Bonnie Ann Dowd, Ed.D.**  
Executive Vice Chancellor, Business and Technology Services

**Stephanie R. Bulger, Ph.D.**  
Vice Chancellor, Instructional Services

**Will Surbrook**  
Vice Chancellor, Human Resources

**Ramon Knox**  
Interim Vice Chancellor, Student Services

**Christopher Manis**  
Vice Chancellor, Facilities Management

**Jack Beresford**  
Director, Communications and Public Relations

**Margaret Lamb**  
Executive Assistant to the Chancellor



San Diego Community College District Board of Trustees  
(from left, back row) Craig Milgrim, Sean Elo-Rivera, and Mary Graham,  
(front row) Maria Nieto Senour, Chancellor Constance M. Carroll, and Bernie Rhinerson.

# San Diego Mesa College Administration

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

Vice President,  
Administrative Services..... Lorenze Legaspi  
619-388-2990, Room A-102

Vice President, Instruction ..... Isabel O'Connor, Ph.D.  
619-388-2755, Room A-103

Vice President,  
Student Services ..... Ashanti Hands, Ed.D.  
619-388-2678, Room I4-401

Dean, School of Arts  
and Languages.....Leslie Shimazaki  
619-388-2873, Room G-201

Dean, School of Business  
and Technology..... Danene Brown, Ph.D.  
619-388-2803, Room J-106

Dean, School of Health Sciences/  
Public Service..... Tina Recalde, DPT  
619-388-2789, Room S-300

Dean, School of Humanities ..... Linda Hensley  
619-388-2797, Room G-201

Acting Dean, Institutional  
Effectiveness .....Bridget Herrin, Ph.D.  
619-388-2544, Room A-109

Dean, School of Learning Resources  
and Academic Support ..... Andrew MacNeill, Ed.D.  
619-388-2799, Room LRC-444

Dean, School of Mathematics  
& Natural Science..... Susan Topham, Ed.D.  
619-388-2795, Room MS-301

Dean School of Exercise Science/  
Health Ed., Dance, & Athletics..... Ryan Shumaker, Ed.D.  
619-388-2737, Room ES-203D

Acting Dean, School of Social & Behavioral  
Sciences/Multicultural Studies .....Leslie Shimazaki  
619-388-2873, Room G-201

Dean, Student Affairs .....Victoria Miller  
619-388-2699, Room I4-408

Dean, Student Development ..... Ailene Crakes, Ph.D.  
619-388-2896, I4-401

Associate Dean, Research & Planning..... Bridget Herrin

Associate Dean, Career Technical  
Education .....Monica Romero  
619-388-2781

Dean, Student Success and Equity..... Larry Maxey  
619-388-5940, I4-401

Director, Resource Development ..... Krista Stellmacher  
619-388-2285, Room A-111

Director, College Technology  
Services ..... David Fierro, Ed.D.  
619-388-2764, Room MC-215

## Accreditation

San Diego Mesa College is accredited by the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges, 10 Commercial Blvd., Suite 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. Additional information about accreditation, including the filing of complaints against member institutions, can be found at: [www.accjc.org](http://www.accjc.org). Mesa College is also approved by the California State Department of Education. In addition, certain programs at Mesa College hold special accreditation:

- Dental Assisting—American Dental Association Commission on Dental Accreditation
  - Health Information Management—Commission on Accreditation for Health Informatics and Information Management (CAHIIM)
  - 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
  - Veterinary Technology—California Department of Consumer Affairs, Veterinary Medical Board
- 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.

## Disclaimer

The San Diego Community College District is governed by its Board of Trustees. No oral or written representation by any employee of the college is binding on the San Diego Community College District without the express approval of the Board of Trustees.

# Academic Freedom & Freedom of Expression

## (Board of Trustees Policy – BP 5030)

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.

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

### 1. ACADEMIC FREEDOM

- a. Academic freedom affords the faculty the right to speak and write freely, without unreasonable restrictions or prejudices.
- b. In accordance with the doctrine of academic freedom, faculty have the following fundamental rights:
  1. Faculty primacy as a collective body in designing and approving curriculum and instructional methods regardless of delivery modality;
  2. Individual faculty member determination of instructional materials, course content, and presentation, and student evaluation methods, in concert with colleagues, so as to assure consistency of instruction and academic standards;
  3. Individual faculty member 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 member authority to evaluate enrolled students on the basis of the academic merit of the students' performance;
5. Individual faculty member freedom to choose of professional research topics and methods of investigation— subject to professional and peer-determined standards—as well as unconditional freedom to publish their work; and
6. Individual faculty member right to participate in curriculum review, accreditation processes, and other forms of participatory governance.

### 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—without fear of retaliation. In particular:
  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 the merits of competing ideas;
  4. As outlined in board policies and administrative procedures, faculty, staff, and students have responsibilities which are based upon principles of fairness, integrity, confidentiality, safety, professionalism, and respect for others;
  5. Faculty, staff, and students have the right to join or form organizations in accordance with District policy and procedures; and

6. Faculty, staff, and students have the right to participate in governance in accordance to District policy and procedures.

## 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.

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# Academic Calendar 2020–2021

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## Fall Semester 2020

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16-WEEK SEMESTER: Fall Classes ..... August 17, 2020 – December 14, 2020

### SPECIAL DATES

June 11, 2020 .....	Deadline to file an application for admission and receive a priority registration date and time for Fall. Students who file an application after the deadline will have open registration and will not receive priority for access to services.
August 16, 2020 .....	RESIDENCE DETERMINATION DATE (APPLIES TO ALL SESSIONS)
September 7, 2020 .....	Holiday – Labor Day*
September 17, 2020 .....	Constitution Day (Classes are in session)
November 11, 2020 .....	Holiday – Veterans Day*
November 15, 2020 .....	Last day to file an application for graduation for an Associate Degree or Certificate of Achievement for Fall 2020 completion.
November 23 – 25, 2020 .....	Classes not in session
November 26 & 27, 2020 .....	Holiday – Thanksgiving*
December 15, 2020 – January 30, 2021 ..	Winter Recess

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## Interession 2021

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4-WEEK INTERSESSION: ..... January 4–30, 2021

### SPECIAL DATES

October 23, 2020 .....	Deadline to file an application for admission and receive a priority registration date and time for Interession. Students who file an application after the deadline will have open registration and will not receive priority access to services.
January 31, 2021 .....	RESIDENCE DETERMINATION DATE (APPLIES TO ALL SESSIONS)

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## Spring Semester 2021

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16-WEEK SEMESTER: Spring Classes ..... February 1 – May 29, 2021

### SPECIAL DATES

October 23, 2020 .....	Deadline to file an application for admission and receive a priority registration date and time for Spring. Students who file an application after the deadline will have open registration and will not receive priority access to services.
January 18, 2021 .....	Holiday – Martin Luther King Day*
January 31, 2021 .....	RESIDENCE DETERMINATION DATE (APPLIES TO ALL SESSIONS)
February 12, 2021 .....	Holiday – Lincoln Day*
February 15, 2021 .....	Holiday – Washington Day*
March 29 – April 3, 2021 .....	Spring Recess – Classes not in session.
April 2, 2021 .....	Holiday – Cesar Chavez Day*
April 30, 2021 .....	Last day to file an application for graduation for an Associate Degree or Certificate of Achievement for Spring 2021 completion.
May 31, 2021 .....	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 2021

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Summer Classes: ..... June 7 – August 14, 2021

### SPECIAL DATES

- April 16, 2021 ..... Deadline to file an application for admission and receive a priority registration date and time for Summer. Students who file an application after the deadline will have open registration and will not receive priority access to services.
- June 6, 2021 ..... RESIDENCE DETERMINATION DATE (APPLIES TO ALL SESSIONS)
- July 5, 2021 ..... Holiday – Independence Day\*
- July 31, 2021 ..... Last day to file an application for graduation for an Associate Degree or Certificate of Achievement for Summer 2021 completion.

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

**Note:** Holidays apply to all sessions.



# 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.

## Institutional Learning Outcomes

### Communication

- Respond appropriately to incoming information in a variety of ways, including: written, oral, visual, auditory, and kinesthetic
- Communicate awareness of how diversity and multiple perspectives shape and impact individual experiences and society as a whole

- Converse with civility and appropriateness for situational context

### Critical Thinking

- Effectively interpret, analyze, synthesize, explain, and infer concepts and ideas
- Construct and deconstruct arguments
- Demonstrate quantitative or qualitative competency
- Apply problem-solving methods in appropriate context toward making decisions
- Come to rational conclusions based on evidence
- Think independently, creatively, and logically

### Information Literacy

- Gather, analyze, evaluate, and disseminate appropriate information using multiple modalities
- Utilize 21st-century tools effectively, ethically, and responsibly in information acquisition and distribution
- Cultivate the skills necessary for life-long learning

### Professional and Ethical Behavior

- Practice responsible, professional, and civil conduct in the classroom, workplace, community, digital world, and the natural environment
- Demonstrate the ability to work both independently and collaboratively
- Develop the cultural sensitivity needed to resolve conflicts and build alliances

### Global Consciousness

- Recognize the interconnectedness of global, national, and local concerns from multiple perspectives
- Exhibit awareness, appreciation, and respect for the diversity of individuals in one's immediate environment as well as in the global community
- Apply knowledge of diversity and multicultural competencies to promote equity and social justice in our communities

# Vision, Mission Statement, Values and Strategic Directions

## Vision

### What we strive to be

To be the leading college of equity and excellence, educating students to shape the future.

## Mission

### Why we exist

San Diego Mesa College empowers our diverse student body to reach their educational goals and shape the future. As a comprehensive community college committed to access, success and equity, we promote student learning and achievement leading to degrees and certificates in support of transfer education and workforce training, and lifelong learning opportunities. Faculty and staff collaborate with our students to foster scholarship, leadership, and responsibility to effect positive change within our community.

## Values

### What we believe in

- Access
- Accountability
- Diversity
- Equity
- Excellence
- Freedom of Expression
- Integrity
- Respect
- Scholarship
- Sustainability

## Strategic Directions

### How we assess effectiveness

1. Deliver, advance, and support an inclusive teaching and learning environment that enables all students to achieve their educational goals.
2. Build and sustain a sense of community that extends across campus and constituencies, nurturing collaboration, learning, growth, and diversity.
3. Build and sustain pathways in support of the comprehensive community college mission.
4. Support innovation in our practices.
5. Support personal growth and professional development of our employees.
6. Serve as stewards of our resources and advance effective practices in support of accountability.

## 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-chair, Faculty:

**Paul Sykes, Ph.D.**, Professor of Biology

#### Co-chair, Administrator:

**Susan Topham, Ed.D.**, Dean of Mathematics and Natural Sciences

#### Administrative:

**Isabel O'Connor, Ph.D.**, Vice President of Instruction

#### Faculty:

**Gabriel Adona**, Counselor

**N. Scott Robinson Ph.D.**, Professor of Music

**Scott Suarez, Ph.D.**, Professor of Anthropology

**Andrew Hoffman**, Curriculum Review Committee Co-Chair

#### Classified:

**Dulce Lopez**, Student Services Assistant

**Brandon Terrell**, Sr. Clerical Assistant

**Anda McComb**, Administrative Technician

**Vacant**, Administrative Technician

#### District Liaison:

**Shelly Hess, Ed.D.**, Dean of Curriculum Services

**Michelle Radley**, Curriculum Technician

#### Ex Officio:

**Danya Sanchez**, Student Systems Support Technician

#### Student:

**Toan Phan**, Associated Students 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*

# Student Success and Support Program

(formerly the College Matriculation Program)

The goals of the Student Success and Support Program (SSSP) are to ensure that all students complete their college courses, persist to the next academic term, and achieve their educational objectives through admissions, orientation, assessment, educational planning with a counselor, and student follow-up.

## Steps to Student Success

**Step 1 – Admission Application**

**Step 2 – Apply for Financial Aid**

**Step 3 – Orientation**

**Step 4 – Assessment**

**Step 5 – Educational Plan**

**Step 6 – Register and Pay**

**Step 7 – Follow up with a counselor**

These services have 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, and all students are encouraged to participate in the various services of the program.

## 1. Admission Application

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 a high school equivalency certificate.
- 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. Students may enroll in fewer than 12 units and have their enrollment fees waived.
- c. Students will be assessed ALL enrollment fees if enrolled in 12 or more units for classes taught on college campus.
- d. All holds must be cleared prior to registration.
- e. High school students must satisfy course prerequisites and eligibility requirements.
- f. Enrollment in Physical Education classes will not be permitted.
- g. The course is advanced scholastic or technical (college degree applicable).
- h. The course is not available at the school of attendance.
- i. Students will be given college credit for all courses. Grades will be part of the student’s permanent college record.
- j. Students must maintain a 2.0 grade point average each semester in all college work.
- k. If the number of units of W, I and NP meet or 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.

In accordance with §76038 of the California Education Code, students seeking admission who have been previously expelled from a California community college within the past five years, or who are currently in the process of a formal expulsion hearing for any offense listed in AP 3000.2, *Student Admission Status*, 2.a.1-7, are required to inform the

District. Admission eligibility shall be determined in accordance with *AP 3000.2, Student Admission Status*.

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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: <https://www.sdccd.edu/apply/>.

### Social Security Number

Your Social Security Number (SSN) or Individual Tax Identification Number (ITIN) is required for Federal and State reporting, and for students applying for Financial Aid. It is maintained in a secure manner and WILL NOT be visible or released to third parties for identification purposes for any reason.

Section 483 and 484 of the Higher Education Act of 1965, as amended, also gives the Financial Aid Office the authority to collect your SSN. The U.S. Department of Education uses your Social Security Number to verify your identity and retrieve your records. Providing incorrect information may result in penalties from the IRS.

All students will be assigned a unique 10-digit Student Identification number upon successful submission of their application that will be required to conduct all college business.

### 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. Apply for Financial Aid

To apply for financial aid applicants must complete the Free Application for Federal Student Aid (FAFSA), or a California Dream Act application for all financial aid, including the California College Promise Grant – CCPG. To complete your FAFSA, go to [www.fafsa.gov](http://www.fafsa.gov). To complete a California Dream Act application, go to <https://dream.csac.ca.gov>. FAFSA Application materials are available on October 1st for the following academic year. The priority filing deadline for aid is April 15th. Students filing their application by this date will be considered first in the award process. Deadline to apply: The Central Processing

System (CPS) must receive your application by your last day of classes for the term or June 30, 2021 whichever date comes first. The Deadline for Cal Grant application is March 2nd.

## 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 program planning. Non-Exempt students who have been admitted to the college are expected to attend an assessment/orientation session before registering for classes.

Get started with the New Student Orientation at: <http://orientation.sdmesa.edu>

### Student Service Outcomes (SSOs)

The Assessment and Orientation faculty and staff have identified the following Student Service Outcomes (SSOs) 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. Assessment

Assessment is a process that is designed to assist students in determining which English or English Language Acquisition (ELAC) and math courses they should start with, specifically identifying milestones (formerly known as skill levels) in these areas. Assessment also helps students in meeting course prerequisites. Students may also meet course prerequisites based on other factors such as English or ELAC and math course completion or other standardized tests.

### Assessment via College Application

Students who have graduated from a U.S. high school within the last 10 years will receive the placement levels based upon high school performance information that is provided on the application for admission. The college application (CCCApply) will identify English and math courses that students can enroll in using prior high school

history. Students will report cumulative, unweighted high school GPA, courses completed, and grades received in English and math courses.

#### Assessment via Placement Assistant

Students who have graduated from a U.S. high school more than 10 years ago, completed the GED, or HiSet exam are eligible for this assessment. The Placement Assistant will identify courses that students can enroll in using prior academic history. Students will report cumulative, unweighted high school GPA, courses completed, and grades received in English and math courses. Based on the information reported, students will receive an English and math placement milestone. Students who graduated from a foreign high school should contact the Assessment Center for guidance.

#### English Language Acquisition (ELAC) (formerly known as ESOL) Assessment

The ELAC placement process is designed for students primarily educated outside of the United States in a language other than English. Students who feel they may benefit from taking an ELAC class before a college-level English class are eligible for assessment via placement assistant. The ELAC self-guided placement tool will identify courses that students can enroll in. Based on the information reported students will receive an ELAC placement milestone.

Students placed into credit ELAC coursework prior to Fall 2020 may access the newly adopted placement process. Students who have completed a United States high school diploma or equivalent shall follow the math and English placement process. Please contact your campus Assessment Center for guidance.

San Diego Continuing Education (CE) students should use the CE to College bridge as a guide to which ELAC and English courses they may be eligible to enroll in.

Students who believe they have sufficient grounds may challenge a prerequisite, corequisite, or limitation on enrollment. A student may obtain a Petition to Challenge in the Admissions Office.

#### Continuing Education (CE) to College Bridge

CE Course/Course Completion Certificate	Enroll in College Course/Level Recommendation
<b>ESLA 431</b> Beginning Literacy 1	
<b>ESLA 432</b> Beginning Low 2	
<b>ESLA 433</b> Beginning High 3	ELAC 15 or ELAC 23 and ELAC 25
<b>ESLA 434</b> Intermediate Low 4	ELAC 23 and ELAC 25 or ELAC 33 and ELAC 35
<b>ESLA 435</b> Intermediate High 5	ELAC 35 or ELAC 145
<b>ESLA 436</b> Advanced Low 6	ELAC 145, or ENGL 48 and ENGL 49, or ENGL 47A
<b>ESLA 437</b> Advanced High 7	ENGL 48 and ENGL 49, or ENGL 47A, or ENGL 101X (ENGL 101/31) or ENGL 105X (ENGL 105/31)

#### Assessment Exemptions

Students are exempt from assessment if they have earned an Associate degree or higher, have completed English and math courses, have received a qualifying score on an SAT, ACT, or CAASPP/EAP, or have taken an assessment test at another California community college.

Students should bring or send official copies of the SAT, ACT, or EAP test scores directly to the District Student Services Office to determine readiness for English 101 or 105 or for courses with a Math 96 prerequisite. **All tests must have been completed within the past two years.** Students who have assessment scores from another California community college can have those sent directly to the college Assessment Office.

Test	Minimum Score Required	
	English	Math
SAT	550 Evidence-Based Reading and Writing	570
ACT	22	23
Test	Minimum Score Required	
CAASPP/ EAP Status	English	
	1. Standard Exceeded: Ready for college-level English coursework	
	<b>OR</b>	
	1. Standard Met: Conditionally Ready for college- level English	
<b>AND</b>		
2. Completion of approved senior year-long course with a grade of C or better (see course list below)		
	Math	
	1. Standard Exceeded: Ready for college-level math coursework	
	<b>OR</b>	
	1. Standard Met: Conditionally Ready for college- level math	
	<b>AND</b>	
	2. Completion of approved senior year-long course with a grade of C or better (see course list below)	

### Approved High School Senior Year-Long Courses

#### English:

- Expository Reading & Writing Course (ERWC)
- IB English
- AP Language and Composition
- AP Literature and Composition
- Weighted Honors English

#### Math:

- Trigonometry
- Math Analysis

- Pre-Calculus or Calculus
- AP Calculus AB or BC
- AP Statistics
- AP Physics

A qualifying score from the College Board Advanced Placement English or Math Exam may be taken directly to the college Counseling office for consideration. Please refer to the College Catalog for AP exam score requirements.

## 5. Educational Plan

An education plan 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 education plan is an agreement which contains the official requirements for graduation and/or transfer. **All official transcripts of prior college work must be on file and evaluated before an official education plan can be prepared. Transcripts from foreign institutions are not required.** See the **Graduation** section on page 120 for graduation filing requirements.

Education plans outline a suggested pathway for a student to take based on their major, transfer plans, or other pertinent objectives. 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. The student should review their education plan periodically with a counselor as goals or objectives change.

Career, interest, and aptitudes assessments are available for students who wish to explore other options or who are undecided on their educational goal.

## 6. Register and Pay

Students who submit an application before the application deadline will receive an assigned enrollment date and time posted on mySDCCD portal at <https://myportal.sdccd.edu/>. Students who submit an application after the deadline may register during open enrollment. Register online at <https://www.sdccd.edu/future-students/registration/index.aspx>. You are responsible for ensuring that all

fees, including the Health Fee (which is not covered by the California College Promise Grant – CCPG waiver) are paid in full by the deadline or you may be dropped for nonpayment. Pay online or in person at the Accounting Office.

## 7. Follow up with a counselor

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 Application

- No exemptions

### 2. Apply for Financial Aid

- No exemptions

### 3. Orientation

- Students with the following educational goals:
  - Maintenance of a certificate or license, educational development, or completion of credits for high school diploma
  - Students who have an associate degree or higher
  - Students concurrently enrolled at a four-year college or university
  - Students concurrently enrolled in high school

### 4. Assessment

- Students with the following educational goals:
  - Maintenance of a certificate or license, educational development, or completion of credits for high school diploma
  - Students who have an associate degree or higher
  - Students concurrently enrolled at a four-year college
  - Students concurrently enrolled in high school

- Students who have taken the assessment within the last three years

### 5. Educational Plan

- Students with the following educational goals:
  - Maintenance of a certificate or license, educational development, or completion of credits for high school diploma
  - Students who have an associate degree or higher
  - Students concurrently enrolled at a four-year college
  - Students concurrently enrolled in high school

### 6. Register and Pay

- No exemptions

### 7. Follow up with a counselor

- No exemptions

## Registration

With the exception of Special-Admit High School students, all students receive an appointment to register online using the San Diego Community College District's online registration system. Special-Admit High School students must enroll in person on or after their assigned enrollment date.

By using the combined schedule of classes and the online registration system, a student can enroll in any available course offered at ECC, City, Mesa, or Miramar Colleges. Instructions for the class schedule and online registration are available on campus and on the web at: <http://classschedule.sdccd.edu/>.

The online services that are offered include:

- Enrollment – add, drop & withdraw from classes
- View the student's class schedule and payment deadlines
- Pay fees and view payment records
- Purchase a parking permit
- Purchase an Associated Students Membership
- Wait List activities – adding, dropping and view Wait List status
- Pass/No Pass grading options

- View Financial Aid
- View attendance hours for tracking classes
- View Milestones (formerly Skill Levels)
- Academic deadlines and calendar

**Note:** You may only access one semester at a time.

The portal also grants access to:

- Grade information
- Academic history
- Petitions to graduate
- Ordering transcripts
- View 1098-T tax information

## My Planner

Students now have access to **My Planner**, a tool to help you select classes from your education plan (academic requirements) and assign them to a specific term(s)/semester(s). Log into the mySDCCD Student Portal, under the My Classes banner, click on the **My Planner** link to get started. <http://myportal.sdccd.edu>

## Audit Policy

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

## Online Class Restrictions

In accordance with federal regulations City, Mesa and Miramar colleges may not permit students residing outside of California to enroll in online classes without approval of the state where the student resides. Students residing in a non-approved state/territory are **not permitted** to enroll in online classes and will be dropped. Go to <https://www.sdccd.edu/docs/StudentServices/OnlineStatesNotPermitted.pdf> for an up-to-date list of restricted states and territories.

## 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 may 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 are available online at <http://classschedule.sdccd.edu/>. This website 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.

### 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 choose to enroll in another class section of the same subject and course number will be required to remove themselves from the Wait Listed class **before they can ADD** the similar class section.
- Students can check their position number on the Wait List on **mySDCCD**.
- 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.
- When a space becomes available in the Wait Listed class:
  - Wait Listed students will automatically be added to the class if a space becomes

available **and they are eligible to enroll**. An email will be sent to students after they have been added to the class. It is the student's responsibility to monitor the payment schedule.

- When students are **not** eligible to enroll due to a hold or time conflict or a failed requisite, they will be notified of the conflict and will be given three (3) business days, including the day of notification, to resolve the issue. If students do not add their Wait Listed class within the 3-day period, they will be removed from the Wait List.
- It is the student's responsibility to check their email or **mySDCCD** for the status of their Wait Listed class(es) in order to pay fees in a timely manner. (Fees will need to be paid immediately, prior to the class start date and before the drop for non-payment date.)
- 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 by the instructor.
- Students enrolled in SDCCD Online courses must contact the instructor on the first day of class via email 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 (permission number) from the instructor, then must process and pay for the added class online or in person at the Accounting Office, I4-106.

Students are not officially enrolled until the add code (permission number) is processed through the online registration system 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 (permission number) to another student, the instructor should administratively drop

the student who was not issued the permission number.

## Class Attendance

Students who do not attend the first class meeting may be dropped by the instructor. Students, who cannot attend because of illness, religious observation, or a serious problem, should notify the instructor. Students who miss the first class meeting and do not plan to attend must log-in online and drop the class to avoid receiving an "F" grade.

**It is the student's responsibility to drop by the published deadlines.**

## 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, online at: <http://classschedule.sdccd.edu/> in "My Classes" under the calendar icon, or at: <https://www.sdccd.edu/students/dates-and-deadlines/> under "Important Deadlines".

- 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 the 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 the 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.

## 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 (permission number) issued to another student;



3. Failure to meet the terms and conditions of a fee deferment or payment plan;
4. Failure to meet academic or progress standards;
5. Denial of a "Petition to Challenge a Prerequisite";
6. Failure to meet a prerequisite or co-requisite Requirement;
7. Enrolling in an online course while residing in a state not approved by the department of education;
8. Students who do not show proof of immunizations on the first day of class for select Child Development courses.

## 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, Campus Safety 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

The maximum study load for a semester is 20 academic units including Exercise Science activity units.

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 including Exercise Science activity units.

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

#### Group 1

- Active Military & Veterans who meet the eligibility criteria\*, Current and Former Foster or Homeless Youth\*\*, CalWorks, EOPS and DSPS students, Intercollegiate Athletes\*\*\*. Non-matriculated students are placed at the end of this group.

#### Group 2

- Continuing Students who have completed orientation, assessment, and have an education plan (Abbreviated education plans only grant a student priority for 2 semesters.)
- Continuing CE Advantage Students

#### Group 3

- New & Returning Students who have completed orientation, assessment, and have an education plan (Abbreviated education plans only grant a student priority for 2 semesters.)

#### Group 4

- Continuing, New & Returning Students who have **not** completed all three services: orientation, assessment, and have an education plan.

#### Group 5

- Students with 100+ Units (Does NOT include Basic Skills units.)

(Active Military & Veterans, Current and Former Foster or Homeless Youth, Intercollegiate Athletes, CalWorks, DSPS & EOPS students will receive first priority within this group.)

#### Group 6

- Students with a Baccalaureate Degree

(Active Military & Veterans, Current and Former Foster or Homeless Youth, Intercollegiate Athletes, CalWorks, DSPS & EOPS students will receive first priority within this group.)

#### Group 7

- Students who are academically disqualified or disqualified for lack of progress or who have not yet returned to good academic standing.

(Active Military & Veterans, Current and Former Foster or Homeless Youth, Intercollegiate Athletes, CalWorks, DSPS & EOPS students will receive first priority within this group.)

#### Group 8

- Students concurrently enrolled in High School

Within each priority group above, students are prioritized according to cumulative units, including transfer units.

#### 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
- 90.0+ units

\* Students who are Active Duty Military or Veterans, discharged within the past fifteen (15) years, may be eligible for up to 4 years of priority registration. Students should contact the Admissions Office for additional information. A military ID card or DD214 will be required for verification.

\*\* Current and Former Foster or Homeless Youth under 25 years of age may be eligible for priority registration. For information, contact the College Admissions Office or Financial Aid offices.

\*\*\* Intercollegiate Athletes participating and registered on a team roster may be eligible for priority registration. For information, contact the College Athletic Department.

## Change of Name, Mailing or Email Address

All students must report immediately any change of address to the college Admissions Office or online at: <https://myportal.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 Enrollment 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.

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

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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. The completed petition with supporting documentation must be filed in the Admissions Office **AT LEAST** 10 working days prior to the start of the primary term/semester. Contact the Admissions Office for additional information. For credit by examination, please refer to page 95.

## Residency

14-102

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 Admissions 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
- A nonresident special part-time high school student who meets admission requirements is exempt from paying nonresident tuition

### Exception to Residency Requirements

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

- Active duty military personnel and their dependents 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
- A Veteran or dependent using or intending to use their GI Bill® benefits while currently living in California and has enrolled at San Diego City, Mesa or Miramar College within three years of their discharge date
- 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

- A nonresident special part-time high school student who meets admission requirements is exempt from paying nonresident tuition

## 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 who meet the following criteria, from paying nonresident tuition:

- have attended a California school full-time for three or more years.
- have received a high school diploma or equivalent, or an Associate Degree or fulfillment of transfer requirements for CSU/UC Institutions.
- have registered as an entering student at, or concurrent enrollment at an accredited institution of higher education in California.

Students who meet the criteria must file an affidavit with the college stating that he or she has filed an application to legalize his or her immigration status.

### 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 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)

I4-102

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, I4-102**

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 15 to be admitted for the fall semester. The processing of an application normally requires a minimum of three to five months. Students who meet the May 15 deadline will be notified as soon as possible of their admission status.

**Admission for Spring Semester:** Students must complete all admissions requirements no later than October 15 to be admitted for the Spring semester.

Students who meet the October 15 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 ELAC (formerly known as ESOL) assessment and placement at a level of ELAC 145 (formerly ESOL 40) or higher; in addition, the student must take the prescribed course work at the level of assessment; or
3. a minimum SAT verbal score of 450.

**Advanced Degrees:** An international student in possession of an associate degree or its equivalent, or higher (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. Minimum of \$26,408 required for one school year (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 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 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. **Mandatory Health Insurance:** Each student is required to provide a notarized letter (in English) certifying that he/she has secured a health insurance coverage in the United States for the duration of their studies.

## 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 Admissions 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 \$46.00 per unit. Enrollment fees 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 \$20.00 per semester for Fall and Spring semesters, and \$17.00 for the Summer session. The following students are exempt from the health fee:

- Students who meet the income standards for the California College Promise Grant – **CCPG-A Only**. Contact the Financial Aid Office for eligibility determination.
- Students attending under an approved apprenticeship program, enrolled only in apprenticeship courses.
- 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 2020–2021 nonresident tuition fee is \$290.00 per unit.

## Library

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

## Baccalaureate Degree Program Fee

A baccalaureate degree program fee will be charged for all upper division coursework. The fee is \$84.00 per unit and will be assessed in addition to the \$46.00 per unit enrollment fee. Nonresident students in upper division coursework will be charged the \$84.00 per unit in addition to the \$46.00 enrollment fee, and the nonresident tuition fee of \$290.00 per unit.

## Additional Fees

Automobile permits per semester (hanger included) .....	\$40.00
Carpool permits per semester .....	\$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 .....	\$46.00/unit
Student Representation Fee.....	\$2.00

**Note:** Students receiving public assistance, or who are determined eligible for financial aid, may purchase a single car permit for \$25.00.

### 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.

**Student Representation Fee:** All students attending classes are required to pay a \$2.00 student representation fee per semester. This fee is expended equally to support the: (1) Student Senate of California Community Colleges (SSCCC) and (2) colleges 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.

**Returned Check Fee:** A \$25.00 fee will be assessed for any returned checks.

## Debt Owed to the College

In alignment with Assembly bill 1313 (Chaptered October, 2019) and California Education Code 66022 and 76225, diplomas, and registration privileges, or any combination thereof, may 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.

## Refunds

- Fees will be refunded to students who reduce their program in accordance with the following schedule:
  - Refunds for Fall and Spring Primary (16 Week Session) is Friday of the second week
  - Refund deadlines for all other classes are located in the class search under the calendar icon ('Important Deadlines')
  - Refund deadlines are also located for a specific term at <https://www.sdccd.edu/students/dates-and-deadlines/> under "Important Dates and Deadlines"
  - No refund is given for classes dropped after the published deadline.
- Students who are administratively dropped when a Petition to Challenge is denied will receive a full refund of the class(es) petitioned.
- Students who are academically disqualified and administratively dropped will receive a full refund.
 

No refund is given for classes dropped after the deadline.
- In order to receive a refund, **parking permits** must be returned to College Police or the Accounting Office within the refund deadlines described in #1.

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, 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>I4-306</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 offers a variety of career development services including assistance with exploration of program of study and career options, job search readiness, resources for finding part-time and full-time jobs, and internship opportunities for students and graduates of Mesa College.

## Student Services Outcomes

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

- Students will be able to utilize employment preparation strategies for career engagement.
- Students will be able to identify career services and events on campus and online.
- Students will be able to recognize available job search resources and career exploration tools.
- Students will be able to interpret their personality type, skills, values and goals as they relate to their career visions.

### 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 job fair events
- Current local and nation-wide job listings
- Online job board
- Internships
- On-campus job boards
- Computer Lab for career activities
- Career counseling

- Online career preparation videos
- Online interview prep tool
- Workshops
- Online career and major exploration resources
- Online job preparation resources
- Explore program of study options

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

# Counseling Services

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<b>Telephone</b>	<b>619-388-2672</b>
<b>Location</b>	<b>I4-303</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/counseling">www.sdmesa.edu/counseling</a></b>

## Mesa Academics & Athletics Program (MAAP)

<b>Telephone</b>	<b>619-388-2672</b>
<b>Location</b>	<b>ES-203A</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>I4-303</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>619-388-2837</b>
<b>Location</b>	<b>I4-303</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/puente">www.sdmesa.edu/puente</a></b>

## ADVOC8 SYE- Second Year Experience

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<b>Telephone</b>	<b>619-388-2663</b>
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Academic, career, and personal counseling services are provided in the Counseling Department.

## Student Service Outcomes

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

1. Utilize intellectual growth in decision making to develop personal, educational, career and athletic goals.

2. Justify major and career choices based on accumulated information or data.
3. Adopt behaviors of satisfying and productive lifestyles and communicate the effects of these behaviors on goal accomplishment.
4. Display enhanced self-respect, positive self-image and effective self-advocacy.

#### 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 (I4-403), 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 Community 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 Office.

### 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 47A 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, I4-403, and speak to the Puente Counselor.

**Puente Counselor:** Raul Rodriguez, 619-388-2834

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

## ADVOC8 SYE (Second Year Experience) – Advancing Diverse Vocational Opportunities and Community

**ADVOC8** is San Diego Mesa College's second and continuing year(s) program. The mission of **ADVOC8** is to serve and prepare students in the areas of personal development, leadership, career, transfer success and equity through the Olympian character. Students involved in the program will benefit from the close interpersonal relationships they create, personalized counseling services and other various incentives. Students will maintain eligibility by fulfilling Fall and Spring requirements. Throughout the **ADVOC8** year each cohort will meet for various organized events and check-ins. This program is for all students looking for a closer connection to the San Diego Mesa campus and a stronger sense of career direction.

**Financial Incentives:** **ADVOC8** students may qualify for book voucher assistance and other incentives during the academic year.

**Mentoring:** Students receive educational planning and career guidance from San Diego Mesa College faculty and staff. Students will create accountability partners in the program that serve as peer to peer support throughout the year.

**Counseling:** Academic, Career and personal counseling is available by the **ADVOC8** coordinator and General Counseling office.

**Career Guidance:** Students will have an opportunity to attend workshops and trainings to support Career identity and guidance.

**Campus Community:** **ADVOC8** students will be required to attend two campus events in the Fall semester. The approved events are targeted

to support campus involvement and intentional discovery of personal goals and career exploration.

### Internship/Job Shadowing/Informational

**Interviews:** During the Spring semester students will identify an internship site **OR** job shadow site **OR** conduct an informational interview as a part of the cohorts requirements. These strategies will be used to help students identify their unique career pathway.

**Program Coordinator:** Adam Erlenbusch, MA, LMFT, Assistant Professor/Counselor

### Contact information:

aerlenbu@sdccd.edu

619-388-2663

## Mesa Academics and Athletics Program (MAAP)

### Mission Statement

The Mesa Academics and Athletics Program (MAAP) at San Diego Mesa College empowers student-athletes to identify and achieve their educational, career, athletic and personal goals. The support program guides student-athletes to obtain an educational degree while meeting California community college and/or transfer eligibility requirements. MAAP aims to motivate student-athletes to succeed in the classroom, the athletic arena and in the community.

### MAAP Goals:

- To assist student-athletes in the identification of educational, career, athletic and personal goals
- To empower student-athletes to reach academic, career, personal and athletic 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 through the Mesa Tutoring and Computing Centers, and use the student services on campus (i.e. Transfer Center, Career Center, Counseling and others).

**MAAP Counselor:** Valerie Pallares-Herrera,  
619-388-2672

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

## CalWORKs/TANF Program

I4-410

619-388-2709

The CalWORKs Program offers support services to students who receive TANF/CalWORKs funding. Specialized services have been designed to support students in their education, career and personal goals while meeting their welfare to work requirements. Services include academic/vocational counseling, job placement, workshops, work study placement and verification of welfare to work hours. For more information, contact the office of Student Success and Equity.

## CRUISE and Peer Navigator Programs

**Telephone** 619-388-2757

**Location** I4-203

**Websites** [www.sdmesa.edu/CRUISE](http://www.sdmesa.edu/CRUISE)  
[www.sdmesa.edu/PN](http://www.sdmesa.edu/PN)

San Diego Mesa College CRUISE (Creating Rich Unique Intellectual Student Experiences) program focuses on student preparation and engagement through peer mentoring and support workshops. CRUISE is an innovative way for new, incoming high school students, returning Adult Learners, Veterans, and Continuing Education students to connect with San Diego Mesa College. The three day program exposes students to all necessary resources to ensure academic success and present the opportunity to connect students to faculty and Peer Navigators.

Housed in the AVANZA Engagement Center and unique to Mesa College, Peer Navigators mentor and guide students during CRUISE and offer ongoing support throughout the academic year. Monthly contacts, workshops, and mentoring are just a few of the components available to participants.

### Student Learning Outcomes:

- Help students feel connected to the college
- Provide instructional workshops and connect students with academic support
- Offer peer mentoring throughout the academic year
- Present students with community-building opportunities
- Personal and leadership development

## Disability Support Programs and Services (DSPS)

**Telephone** 619-388-2780

**Video Phone** 619-403-9547

**Location** I4-405

**Website** [www.sdmesa.edu/dsps](http://www.sdmesa.edu/dsps)

Mesa College provides academic accommodations and services for students with disabilities in compliance with State and Federal legislation including Section 504 and 508 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act Amendments Act (ADAAA).

Students who have a **verified** disability qualify for academic accommodations and services through the Disability Support Programs and Services (DSPS) department. Student participation in the DSPS program is voluntary. Academic accommodations and services are designed to support students enrolled in on-campus, online, and clinical setting courses in the achievement of their academic and vocational goals. Educational Assistance classes for students with disabilities may be available to support the college academic and vocational programs through DSPS and the High Tech Center. Academic accommodations provided **may** include, **but are not limited to:** priority enrollment, assistive technology

and alternate media, interpreters and captioning for students who are deaf or hard of hearing, note taking materials, test taking accommodations, audio recorders, use of specialized equipment and adaptive devices, and disability related counseling and referral. Liaison with community agencies is also an important component of the program. The campus is physically accessible. Students are encouraged to apply early for timely services.

## 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 (Procedure 3105.2) in compliance with state and federal law.

Animals are not permitted on campus with the exception of service animals for persons with disabilities. Refer to Administrative Procedure (AP 3105.2) *Service Animals*.

## Student Learning Outcomes

- Identify and request appropriate academic accommodations in a timely manner through the interactive process with a DSPS Counselor.
- Apply and adapt individual accommodations
- Communicate and self-advocate with campus faculty, staff and administrators.

## English Language Acquisition (ELAC) (formerly known as ESOL)

The English Language Acquisition (ELAC) program is committed to supporting non-native speakers of English in developing their academic English language skills to enable them to succeed in college courses. We offer a range of courses designed to engage students from low-intermediate to advanced levels of English. Core courses consist of integrated academic reading, writing, and grammar as well as academic listening and speaking. Specialized courses in areas such as pronunciation and focused

grammar are also offered to support the individual needs of each student.

The ELAC program consists of four levels. For more information, students should contact [elac@mesa.edu](mailto:elac@mesa.edu).

For more information on the English Language Acquisition Program, students should contact the college Counseling Office.

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

**Telephone:** 619-388-2706

**Location:** I4-309

**Website:** [www.sdmesa.edu/eops](http://www.sdmesa.edu/eops)

### What is EOPS?

EOPS is a state-funded program. The purpose of the program is to increase the access, academic achievement, retention and overall personal success for economically and educationally disadvantaged students by providing a supportive, student-centered environment. Our program is committed to enhancing the students' educational experience by empowering them to define and pursue their academic, career and personal goals. The services offered are "over and above" those offered by the college's Student Services division. The primary services include assistance in the following areas: priority enrollment, counseling and preparation for transition to four-year universities or the workplace. Services may also include book grants and other 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 head of household and receiving 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 counseling support services including specialized workshops, meal cards, gas cards, emergency bus passes, and supplies to address those needs that are unique to single parents.

Students that are formerly incarcerated may receive service in the EOPS office. Please visit our office and ask to meet with Jesus Gaytan for more information, I4-309.

## NextUP

NextUP (Also known as CAFYES—Cooperating Agencies Foster Youth Educational Support) is a supplemental component of EOPS. It provides resources and services to current and former foster youth. Services may include: counseling, books and supplies, grants, child care and transportation assistance, financial literacy and independent living skills support, and housing assistance. Students must meet eligibility requirements for EOPS, be under the age of 26, and in foster care on or after their 16th birthday. Students must also be enrolled in at least 9 units.

## Fostering Academic Success and Transitions (FAST) Scholars

FAST Scholars provides services to foster youth, guardianship youth and homeless Youth at San Diego Mesa College. Students do not need to qualify for EOPS to be part of the program. FAST Scholars' services include: priority registration, intrusive counseling and case management services, assistance applying for financial aid opportunities such as CHAFEE grant and scholarships, life skills and success seminars and book vouchers (when funding available).

## Borderless Scholars

Borderless Scholars serves students who are undocumented. Students do not need to qualify for EOPS to be part of the program. Borderless Scholars' services include: personalized academic counseling scholarship assistance, community resources and referrals, mentoring, workshops and other cohort-building events.

## 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:

- Students will be able to identify requirements necessary to meet EOPS compliance and program expectations
- Students will be able to explain the content of their education plan and identify the general education and major prep courses needed to reach their educational goal

## Eligibility

Students may be eligible to receive EOPS services if they meet all of the following criteria:

1. Must be a California resident or AB540
2. Must be enrolled in 12 units or more
3. Must be eligible to receive the California College Promise Grant A or B at Mesa College
4. Have less than 70 degree applicable units

Additionally, students must meet one of the following criteria:

- Currently or previously enrolled in a developmental level course
- No high school Diploma/GED or are a high school graduate with overall GPA below 2.5
- Are the first one in your family to attend college
- Are an emancipated foster youth
- English is/was not the primary Language spoken at home
- Belong to a group that is part of Mesa College's student equity goals

## 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 California College Promise Grant. Students may apply online through the EOPS website or by visiting the EOPS Office located in I4-309. 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.

## Services for Homeless Students under age of 25

San Diego City, Mesa and Miramar Colleges are committed to ensuring that all students have a fair and equal opportunity to obtain a high-quality education and complete their educational goals. As part of this commitment, the colleges provide referral services for homeless youth through the Extended Opportunity Programs and Services (EOPS) office. Effective Spring 2017, the following services will be provided:

- Access to shower facilities on-campus during designated hours
- Referrals to student support services including financial aid, Cal WORKs, DSPS, food pantries, and mental health services
- Referrals to outside agencies that support homeless shelters, housing referrals, etc. as needed
- Priority Registration, if eligible, starting Summer 2017 registration (requires submission of FAFSA or California College Promise Grant – CCPG application and verification of status)

Students that are homeless, formerly homeless or at-risk are encouraged to visit your college's EOPS office for more information.

## Evaluations

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<b>Telephone</b>	<b>619-388-2680</b>
<b>Location</b>	<b>I4-306</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/evaluations">www.sdmesa.edu/evaluations</a></b>

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The Mesa College Evaluations 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 processes graduation applications, 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>I4-107</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:

- Students will learn to analyze, describe and explain issues related to their lack of academic progress.
- Student will successfully complete their Financial Aid file.
- Students will demonstrate basic knowledge of financial aid principles, rules, and regulations by completing a brief survey during the Financial Aid Information Fair.

## Application

On a yearly basis, all financial aid applicants must complete the Free Application for Federal Student Aid (FAFSA), or a California Dream Act application for all financial aid, including the California College Promise Grant – CCPG. To complete your FAFSA, go to [www.fafsa.gov](http://www.fafsa.gov). To complete a California Dream Act application, go to <https://dream.csac.ca.gov>. FAFSA Application materials are available on October 1st for the following academic year. The priority



filing deadline for aid is April 15th. Students filing their application by this date will be considered first in the award process. Deadline to apply: The Central Processing System (CPS) must receive your application by your last day of classes for the term or June 30, 2021 whichever date comes first. The Deadline for Cal Grant application is March 2nd.

A current Admission's Application to the College must be on file before we can process your FAFSA application. Complete the application using your personal information as it appears on your Social Security card or our office will not be able to process your financial aid application.

Academic transcripts from prior colleges attended are not required to be submitted before processing a financial aid application. Academic transcripts must be submitted directly to the District Records Office.

All inquiries such as disbursement of funds, document submission, appeals, etc., MUST be made on or before the deadline date. After the close of the academic year, we will no longer be able to process any financial aid application or disbursements.

## 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 must have a high school diploma, GED or equivalent in order to apply and qualify for Financial Aid. Contact the Financial Aid office for additional information.

## 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 funds are usually ready for disbursement approximately four or five weeks after the start of classes. Pell Grant and Cal Grant disbursements are based on enrollment levels at the time of payment and will not be adjusted. However, SEOG 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 42).

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 used 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, I-400 Room 408 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 WORK STUDY money and withdraws, he/she does not owe anything back and may keep the salary earned; but must stop working immediately.

For more information about the timeframe to repay, the consequences of not paying and a sample Return of Funds calculation, go to: <http://sdmesa.edu/students/services/financial-aid/return-to-title-iv-policy/>

## 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: California College Promise Grant – CCPG

State law requires that students attending the college pay an enrollment fee. Students enrolled in credit classes are currently required to pay \$46.00 per unit.

The college offers the California College Promise Grant (CCPG), a state-funded program which will waive the enrollment fee for all eligible applicants. **Students who are eligible for a California College Promise Grant (CCPG) will be required to pay the health fee.** The health fee will no longer be waived for students who are eligible for a CCPG other than students who are eligible for a CCPGA (TANF/ CalWorks, SSI/SSP, or General Assistance).

Students may apply for the CCPG one of two ways:

- Submit a FAFSA (<https://fafsa.ed.gov>) or a California Dream Act Application (<https://dream.csac.ca.gov>), or
- Apply for the CCPG on the online registration system during the application window. (Application window is three weeks prior to the start of the semester up to the add/drop deadline for the primary term, please visit <http://www.sdccd.edu/students/financial-aid-scholarship/> for more information.)

If you are a California resident or have been designated an AB-540 student, you may qualify for a CCPG 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 or California DREAM Act application. You must have at least \$1,104 on “unmet” need to qualify.
- 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 as main source of income 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 are a recipient of the Congressional Medal of Honor or a child of a recipient. You must submit documentation from the Department of Veterans Affairs.
- You are a dependent of a victim of the September 11, 2001, terrorist attack. Must submit documentation from the CA Victim Compensation and Government Claims Board.
- You are dependent of a deceased law enforcement/fire suppression personnel killed in the line of duty. You must submit documentation from the public agency employer of record.

- You have been exonerated of a crime by writ of habeas corpus or pardon. You must submit documentation from the Department of Corrections and Rehabilitation.
- You meet the following income standards:

<b>Number In Household</b> (including yourself)	<b>Total Family Income for 2018</b> (adjusted gross income and/or untaxed income)
1	\$18,735.00 or less
2	\$25,365.00 or less
3	\$31,995.00 or less
4	\$38,625.00 or less
5	\$45,255.00 or less
6	\$51,885.00 or less
7	\$58,515.00 or less
8	\$65,145.00 or less

Each Additional Family Member \$6,630

To determine your eligibility for the California College Promise Grant (CCPG) 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 2018.

New State regulations have changed eligibility requirements for the CCPG. Starting Fall 2016, in addition to income and residency requirements, students must maintain academic and progress standards to maintain California College Promise Grant (CCPG) eligibility.

These income standards are for the 2020–2021 academic year and are used to determine California Promise Grant Part B eligibility EFFECTIVE July 1, 2020.

**Appeal Process for Loss of CCPG**

Students will maintain their CCPG eligibility as long as they are in good academic standing. Students who believe their recent academic performance is based on circumstances outside their control, or believe they have made substantial academic improvement, may appeal the loss of CCPG eligibility

by submitting a Loss of CCPG/Enrollment Priority Petition to the Dean of Student Development five (5) business days prior to the Application and Registration Deadline posted on the Academic Calendar. Petitions will be reviewed in the order they are received by the Dean of Student Matriculation.

**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.

Effective July 1st, 2012, all financial aid applicants are subject to 6 years maximum of Pell Grant lifetime eligibility or 600%.

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. If you have a bachelor’s degree, you are not eligible for FSEOG.

**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, eligible AB-540 designated student 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 or eligible AB-540 designated students from a low- or middle-income family.

- Additional Cal Grant Access Funds for Students With Dependents (SWD) Independent Students with dependent children under 18 years of age by July 1st of the award year (start of the financial aid award year) and for whom the student will provide more than half of their support between July 1st and June 30th of the award year may be eligible for the following: Cal Grant Access awards up to \$6,000 & \$6,024 for qualifying Cal Grant A and B recipients and up to \$4,000 for eligible Cal Grant C recipients. Actual award will be based on remaining unmet need.
- See the Financial Aid Bulletin for important dates and deadlines.
- Cal Grant Program is not available for students accepted into the comprehensive Transitional Program C2C.
- If you have a bachelor's degree, you are not eligible for a Cal Grant.

## Chafee Grant Program

The Chafee Grant is a federal program that is administered by the California Student Aid Commission to provide financial assistance to former 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.

## Student Success Completion Grant

### Prerequisite: Be a full time Cal Grant recipient

– The SSCG is a California Community Colleges financial aid program designated for Cal Grant B and Cal Grant C recipients who are carrying an academic load of at least full time (12 units or more) by the semester financial aid enrollment freeze/census date. The purpose of the SSCG grant is to provide eligible students with additional financial aid to help offset the total cost of community college attendance, to encourage full-time attendance, and assist in the successful on-time completion of the student's degree objective. Due to limited funding, the awards are made on a first-come-first-served basis. In order to be eligible for this grant, the student must be registered in ALL planned units for the semester by

the published census/freeze date. The grant pays up to \$4000 annually based on the number of units: if the student's enrollment is between 12 – 14.99 units, the award is \$649 for the semester; if the student's enrollment is 15 units or more, the award \$2,000 for the semester. Eligibility is determined every semester after the financial aid census/freeze date and based on available funds.

## 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.

Student Loans are not available for students accepted into the comprehensive Transitional Program C2C.

Student Loans are not auto-awarded to any student.

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 4.53% for loans disbursed from July 1, 2020 to June 30, 2021. 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 1.059%. The fees are deducted from the proceeds

of your loan. The origination fee will change for any loan disbursed after October 1, 2020.

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).

Congress approved a new lifetime limit on Subsidized Direct Loans for subsidized loans disbursed on or after July 1, 2013. Students will be limited to 150% of subsidized loan eligibility based on their program of study.

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.

## Experimental Site Provisions

Effective with the 2017–2018 school year, San Diego City College, San Diego Mesa College, and San Diego Miramar College have been approved by the U.S. Department of Education to participate in an

experimental initiative regarding "over-borrowing" that will require a group of students to complete additional loan counseling before loan funds can be disbursed to the student.

## Unsubsidized Loan (Under Experimental Site Provisions – Elimination for Certain Groups of Students)

Effective within the 2012–2013 school year, San Diego City College along with Mesa College and Miramar College has been approved by the U.S. Department of Education to participate in an experimental initiative regarding "Overborrowing" that allows our college to reduce or eliminate Unsubsidized Loan eligibility and borrowing for certain groups or categories of students.

Based on this initiative, the following groups or categories of students will not be eligible to borrow Unsubsidized Loans:

### 1st Year Students

- 1st year is defined as students who have completed less than 24 units in their current program or major based on their educational plan.
- Units that will be counted towards the 24 units will be units that fulfill the major, general education and district requirements for the current program or major based on the educational plan.
- Units that will not be counted towards the 24 units are units that are basic skills or remedial, English Language Acquisition (ELAC) (formerly known as ESOL), electives or any other units that are not applicable to the current program or major based on the educational plan.

### Students Approved on a Financial Aid Appeal

Students who have an "Unsatisfactory" status (Disqualified) for any reason and who are approved on appeal will not be eligible for an Unsubsidized Loan.

### Exceptions:

- Students accepted and actively enrolled in the Radiology Technology program at SD Mesa College.
- Students accepted and actively enrolled in the Cosmetology program at SD City College.

- Non-Resident students.
- Students accepted and actively enrolled as a 3rd or 4th year at SD Mesa's Baccalaureate HIMS Degree program.
- Students whom have lost eligibility to a subsidized loan program due to SULA provisions (are actively enrolled and requesting a loan after surpassing the 150% published length of their program of study).
- Students that have used 600% of their Pell Grant eligibility.

## 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. Student and borrower must meet all other financial aid eligibility requirements, including completing the FAFSA.

## 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.

## Hispanic Serving Institution (HSI)

San Diego Mesa College is proud to be formally designated a Hispanic Serving Institution by the United States Department of Education. The purpose of this designation is to provide Mesa College the opportunity to improve the academic attainment of Latino/a, Chicano/a, Hispanic, or similar identities, and low-income students. Being an HSI means we are a reflection of our students, their cultures, values,

and life experiences. It guides the direction of the college and how we go about the work that we do. Every student deserves to feel connected and safe on campus and to have access to the programs and services to successfully reach their goals. As an Hispanic Serving Institution, Mesa is committed to be the Leading College of Equity and Excellence.

- **PROYECTO EXITO GRANT** – In Fall 2014, Mesa College was awarded a "Developing Hispanic-Serving Institutions–Title V" five-year grant in the amount of \$2.62 million. The purpose of the grant is to improve the retention and graduation rates of Mesa's diverse population, particularly its Latin students, through systemic, institutional changes and improvements. Mesa's HSI / Title V program is entitled Proyecto Éxito, a name that combines the idea of successfully exiting with a degree, certificate, or transfer-readiness with the Spanish word for "success." Mesa will use grant funds to help a higher proportion of its low-income and Latin students experience academic success, allowing them to "exit" Mesa with their goals met. For more information, contact the Title V HSI Program Manager, Dr. Leticia Lopez, at [llopez@sdccd.edu](mailto:llopez@sdccd.edu).
- **CONEXIONES (STEM) GRANT** – In Fall 2016, Mesa College was awarded a 5-year, \$5 million Title III HSI STEM Grant. The initiative, entitled "STEM Conexiones" (STEM Connections) supports a number of instructional and student support practices aimed at strengthening the college's capacity to support Hispanic and low-income students. Specifically the grant aims to increase student connections in STEM through enhanced counseling services, workshops, peer mentoring and outreach; faculty connections through professional learning and STEM curriculum redesign; and pathway connections working directly with high schools and adult learners to prepare them for STEM majors. Through this grant the college will establish a STEM Center and a STEM Research Innovation Lab for students to begin undergraduate research projects. For more information, contact the Title III HSI STEM Acting Program Manager, Dr. Leticia P López, at [llopez@sdccd.edu](mailto:llopez@sdccd.edu).
- **STEM Center:** The STEM Center aims to provide Mesa students with a centralized community hub for their math and science education. Beyond providing students with an open collaborative study space, we support students in the STEM Center with a team of Instructional Assistants,

Educational Technicians, STEM Tutors, STEM Peer Mentors, and a dedicated STEM Counselor. We also provide students with software, kits, models, books, and materials that they would normally not have access to outside of the classroom - including materials for their Math, Chemistry, Biology, Physical Science, and Computer Science courses. Additionally, we host a technology loan program that provides students access to laptops and calculators. Students can also find a place to join a science club or attend a number of STEM events and workshops held throughout the year. We believe that by promoting access to collaborative instructional support and community building, we will enable students from all backgrounds to succeed their STEM courses.

- **The Innovation Research Lab:** The Innovation lab aims to empower our diverse student population to obtain their academic goals by providing educational access, support, inclusion, and lifelong learning opportunities at San Diego Mesa College. As a community college research center, we promote student success by linking faculty with student mentees to develop exciting research ideas, encourage scholarship, and nurture scientific identity. Our team believes that research experience is extremely fundamental for academic achievement and we welcome all students regardless of age, gender, or social and cultural background.
- **The STEM Peer Mentoring:** The San Diego Mesa College STEM Peer Mentoring program is aimed to help students develop and support STEM related studying and time management skills, while promoting collaborative peer mentoring related to STEM discipline and career. The STEM Peer Mentoring program aims to build a community of STEM majors and faculty that can support each other in their academic and professional goals. The intended outcome of this program is that students are more successful in their STEM classes and successfully move forward along their STEM pathway with increased confidence and motivation. Our program plays an important role in student success and equity at San Diego Mesa College.

## Learning Resource Center

**Location:** The Library, and the Mesa Tutoring and Computing Centers are located in the Learning Resource Center (LRC) building. The Library is housed on floors one and three of the four-story structure (**Floor One:** Reference, Periodicals, Library classroom, Checkout services; MT2C Computing/ Printing, STEM Center; **Floor Two:** Writing Center, Language Center, language classrooms and group study rooms; **Floor Three:** Quiet study, Circulating book collection; **Floor Four:** MT2C computing/ printing and group study rooms, Think Tank, School of Learning Resources and Academic Support School Office, and the LOFT).

## Library Services

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<b>Telephone</b>	<b>619-388-2696</b>
<b>Location</b>	<b>Learning Resource Center (LRC)</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/library">www.sdmesa.edu/library</a></b>

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## Student Learning Outcomes

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

- 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 Library resources (Library Public Service, including Reference Services and Library Instruction; and Library Collections.)

### Special Features:

- Reference assistance provided by campus librarians is available on the First floor.
- Coffee shop on the First floor.
- 24/7 Live Chat Reference Service accessible from the library website.
- Copier/Printers are located on all 4 floors.

## Important Library Resources:

The library offers an extensive collection of scholarly books, e-books, streaming videos, periodicals, and a robust selection of databases available on site and online to currently enrolled students. San Diego Mesa College students find help with their research and information needs at the library's reference desk (First floor) by phone, or 24/7 online chat. Instructor requested class research session, access to reserves, circulation services, and inter-library loan services between district colleges are also available.

## Outreach

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<b>Telephone</b>	<b>619-388-2230</b>
<b>Location</b>	<b>I4-101</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/outreach">www.sdmesa.edu/outreach</a></b>

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Outreach works with students in our feeder high schools, Continuing Education campuses, and the larger community to provide assistance with the admissions application, information on programs and services available at Mesa College, and general support to students as they make their transition to college. We participate in community events, career fairs, and college nights to help educate our community about educational opportunities through Mesa College. Campus tours are also facilitated through our office. If you have questions about the college, your steps to becoming a Mesa student, or would like to schedule 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.

- Identify the resources available at Mesa and articulate how those resources help students succeed in college.
- Demonstrate increased inclination to attend Mesa/college after high school.
- Students we serve will successfully complete the pre-enrollment steps to become students at Mesa.

## STAR TRIO

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<b>Telephone</b>	<b>619-388-2481</b>
<b>Location</b>	<b>I4-308</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/star">www.sdmesa.edu/star</a></b>

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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, and transfer 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:

- Students will indicate increased confidence to be successful.
- Hourly staff and tutors will indicate confidence in their ability to assess student needs and direct them to the appropriate resources.
- Students will be able to list three requirements for transfer.

## Student Health Services

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<b>Telephone</b>	<b>619-388-2774</b>
<b>Location</b>	<b>I400-209</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/health-services">www.sdmesa.edu/health-services</a></b>

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Student Health Services supports the success of students by attending to their physical and psychological well-being. Visits with the Physician,



Nurse Practitioner and Mental Health Clinicians are free.

## Student Learning Outcomes

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 and empathic understanding of stereotypes and discrimination in our society from an experiential viewpoint.

Student Health provides general medical and nursing care to students currently enrolled and attending classes. Our office services are similar to a typical urgent care office. Visits with a provider are free.

Nurse Practitioners are on duty daily. A Medical Doctor and Mental Health Clinicians are available by appointment. Mental Health Clinicians are licensed Marriage Family Therapists or Licensed Clinical Social Workers. Intern Mental Health providers (AFT, ACSW) provide care under the supervision of the mental health coordinator. Therapists provide free individual, family and group care. Some medical procedures, laboratory tests or medications may require a fee. Student Health Services promotes wellness through prevention/education events on campus including: drug and alcohol abuse, sexual assault, domestic violence, sexually transmitted infections, pregnancy, stress, depression, suicide, drunk driving, texting while driving, racism/discrimination. Events are free.

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 the California and San Diego Public Health Departments.

## 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.

## Student Success and Equity

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<b>Telephone</b>	<b>619-388-5940</b>
<b>Location</b>	<b>I4-401</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/student-services/student-success-equity/">www.sdmesa.edu/student-services/student-success-equity/</a></b>

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San Diego Mesa College is committed to becoming the leading college of equity and excellence. We have aligned our Educational Master, Student Success, Title III, Title V, and Student Equity plans to ensure that our movement to close achievement gaps in access and success for underrepresented student groups is intentional, institutional, transformational, and rooted in access to equitable outcomes for all of our students.

To foundationally support Mesa’s commitment to becoming the “leading college of equity and excellence” and to support the implementation of activities that will lead to that designation, we developed the Office of Student Success and Equity.

The mission of this office is to strategically align equity efforts with the mission and goals of the college, serve the college’s goal of institutionalizing equity approaches and standards in everything that we do, to lead the college in the development and implementation of practices to address disproportionate impact and to ensure the employment of equity funding across a varied spectrum throughout the institution. And to ensure

the assessment of the impact of equity funding on closing equity gaps.

## Success, Equity, and Transformation Committee

### Purpose & Objectives

The Success, Equity, and Transformation Committee reports directly to President's Cabinet. The primary purpose of the Committee is to support and lead innovative campus initiatives that strengthen student access, success, and equity. The Committee makes recommendations to the President regarding student success and equity initiatives, including those outlined in the Student Success and Support Program (SSSP) Plan, the Student Equity Plan, and the Developing Hispanic-Serving Institutions (DHSI) Program- Title V Plan.

The Success, Equity, and Transformation Committee will provide a platform for collaboration and communication across the College that will result in the integration of student success and equity efforts campus-wide.

The Success, Equity, and Transformation Committee may establish workgroups to carry out specific objectives, such as the writing, monitoring, and updating of the SSSP, Student Equity, and DHS/Title V Plans. These workgroups will report directly back to the Student Success & Equity Committee.

The objectives of the Success, Equity, and Transformation Committee are to:

- Develop a shared vision for the College's student success and equity efforts
- Advise in the development and implementation of the Student Success and Support Program (SSSP) Plan, Student Equity Plan, and the Developing Hispanic-Serving Institutions Program- Title V Plan
- Use student success and equity data and research to inform College practices
- Provide a venue to dialogue and integrate student success and equity efforts campus-wide
- Support the College's professional development efforts related to student access, success, and equity

# Support Services

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## Campus Bookstore

**Telephone** 619-388-2854

**Location** MC-114

**Website** [www.bookstore.sdccd.edu/mesa](http://www.bookstore.sdccd.edu/mesa)

## Cafeteria

**Telephone** 619-388-2727

**Location** MC-114

## Child Development Center

**Telephone** 619-388-2812

**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** 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.

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.

The Center's CDD program operates during the Fall and Spring semesters. The Center's Head Start program operates during the Fall and Spring sessions.

Hours of Operation: 7:30 am–4:00 pm, M–Th  
7:30 am–12:00 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**

1. Student parking permits are available for purchase during online registration 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. Parking permits are required the first day of each semester; fall, spring, and summer. There is no grace period.
2. Students may not utilize staff/faculty parking areas unless they are the owner of a valid, state issued disabled placard. Owners of a valid disabled placard are not required to buy a parking permit.
3. There are time limited visitor parking spaces at each campus reserved for visitors' use only. Students, except owners of a valid state issued disabled placards, may not utilize visitor parking. All campuses have pay and display machines for visitor and student use. Visitors and students can also download the MobileNow! mobile app to pay by credit card. Pay and display permits and MobileNow! payments are only valid in student parking spaces.
4. **Motorcycles** must display a valid motorcycle permit and be parked in designated motorcycle parking only.
5. **Bicycles** must be parked only in designated bicycle racks. Students are not allowed to ride bicycles, motorized bikes, scooters or

skateboards on campus. Violators are subject to citation and/or disciplinary action.

## Transportation for Students with Disabilities

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 the student's registration and/or diploma.

## 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 provide this important information at: <https://myportal.sdccd.edu>.

## Transfer Center

<b>Telephone</b>	<b>619-388-2473</b>
<b>Location</b>	<b>I4-306</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/transfer-center">www.sdmesa.edu/transfer-center</a></b>

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 Services 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 recognize and use transfer tools and resources for their transfer decision making processes.

- Students will be able to recognize transfer application deadlines as they relate to their transfer goals.
- Students will be able to identify transfer programs and general transfer pathways as they relate to their transfer goals.
- Students will be able to recognize the multiple steps of the transfer process to their first choice four-year Universities.

### The following services are provided:

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

All students are encouraged to visit the transfer center I4-306 in person 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

### Mesa Tutoring and Computing Centers (MT2C)

<b>Telephone</b>	<b>619-388-2898</b>
<b>Location</b>	<b>LRC – First, Second, Fourth Floors, Online, and Embedded</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/mt2c">www.sdmesa.edu/mt2c</a></b>

The Mesa Tutoring and Computing Centers provides assistance on an appointment and walk-in basis. Tutoring is free and available for all SDCCD students. Mesa College tutors are trained professionals who are eager to help students succeed in their classes. Our tutors empower students to become independent learners and contribute to their overall

academic and professional success and personal growth. All of our tutors are trained to learn about the tutoring cycle: how to (1) greet, (2) have students self-diagnose why they need assistance, (3) tutor [not edit] students' assignments, (4) have students reflect, and (5) create next steps for student success. This process helps to support the MT2C philosophy of creating independent learners, increasing metacognition, enhancing study skills, and supporting student success.

## Student Service Outcomes

The Mesa Tutoring and Computing Centers' faculty and staff have identified the following Student Learning Outcomes for the various services available in the Center.

Students accessing the services of the Mesa Tutoring and Computing Centers 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.

## Types of Tutoring

### Face-to-Face

Located on the first, second, and fourth floors of the Learning Resources Center, Mesa Tutoring and Computing Centers (MT2C) offers a wide variety of support for students across the curriculum.

### **MT2C STEM Tutoring and Computing: LRC 1st Floor**

The first floor of the Learning Resources Center provides:

- Computers for student usage/Pay-4 Print services
- Phone: (619) 388-2898
- High Tech Center Tutoring

- STEM Center Tutoring

### **MT2C Writing & Languages Tutoring: LRC 2nd Floor**

Our Writing Center offers 30-minute face-to-face appointment-based tutoring sessions. We assist ELAC (formerly known as ESOL) students and all Basic Skills and transfer-level English classes as well as writing across the curriculum. The Writing Center also holds regular weekly workshops led by instructors and tutors to help students on specific just-in-time tutoring skills (e.g., sentence-level errors, MLA citation, etc).

The Language Center currently offers tutoring assistance in multiple languages.

- Languages may include, but are not limited to: Chinese, German, Spanish, Japanese, French, Russian, and ASL.
- Appointments, Drop-in, and Online  
<http://sdmesa.edu/MT2C>  
Phone: (619) 388-5049

### **MT2C Tutoring and Computing: LRC 4th Floor**

- **Computers and printers for student usage**
- **Embedded tutoring**
- **Study rooms and models**

### Online Tutoring

MT2C offers online assistance in several subjects, including Mathematics, English, English Language Acquisition, Accounting, Astronomy, Chemistry, Computer and Information Sciences, Music, Personal Growth, Physics, foreign language, via Net Tutor. Students can ask real-time questions as well as receive asynchronous assistance. For more information, please call (619) 388-5049 or go to: <http://www.sdmesa.edu/MT2C>.

### Embedded Tutoring

**Classroom Tutor (CT) Program:** The Classroom Tutor Program is an academic assistance program that increases student performance and retention. Classroom Tutors (CTs) are assigned to historically difficult courses and serve to reinforce material presented by faculty members by giving students learning strategies and opportunity for peer interaction. This is accomplished through "CT sessions," which are one-hour tutoring sessions after each class meeting. CT sessions are interactive and incorporate course content (what to learn) and study strategies (how to learn). Through such approaches, the Classroom Tutor Program aims to increase the

retention, success, and graduation rates of students. [www.sdmesa.edu/MT2C](http://www.sdmesa.edu/MT2C)

**Graduate Tutor (GT) Program:** Graduate Tutors (GTs) work both inside and outside the classroom under the direction and supervision of a faculty member for one semester. This position supports English/ELAC (formerly known as ESOL) students and provides GTs with classroom experience to complement their graduate curriculum/training program/own experience, and strengthens their preparation to teach in the future. GTs (1) Assist students in their coursework, (2) Support faculty inside the classroom as well as in our Writing Center, and (3) Mentor students in the successful completion of their educational goals. [www.sdmesa.edu/MT2C](http://www.sdmesa.edu/MT2C)

**Additional Tutoring:** Tutoring is also available in the STEM Center, High Tech Center, Honors Center, the Veteran's Resource Center, and EOPS. Please check the website for details: [www.sdmesa.edu/MT2C](http://www.sdmesa.edu/MT2C)

## Veterans and Service Members

### Veterans Center Military Service Connected Benefit Programs

**Telephone**      **619-388-2805**

**Location**        **I4-102**

The San Diego Community Colleges have been approved to offer military service connected benefit programs leading to a Certificate of Achievement, 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 15 years may be eligible for up to 4 years priority registration. Check with the college Admissions Office for eligibility. An Active Duty Military ID card or DD214 are required for verification.

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

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### Student Service 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. For more information see the Veterans Affairs Office or the Cal Vet website: <https://www.calvet.ca.gov/VetServices/Pages/College-Fee-Waiver.aspx>.

## 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, 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.

## Rate of Pursuit (Chapter 33)

The Chapter 33 housing allowance is paid if the rate of pursuit is more than 50%. The Department of Veterans Affairs calculates the rate of pursuit by dividing the benefit-eligible credit hours/units (or credit hour equivalent) enrolled by the number of credit hours/units considered to be full-time by the school. The resulting percentage is the student's rate of pursuit.

Please visit [www.gibill.va.gov](http://www.gibill.va.gov) for additional information and updates.

## 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. Failure to comply with this regulation will be grounds for decertification of VA benefits.

## Veterans Academic Progress

A veteran student on Academic probation status will be disqualified when his/her semester grade point average (GPA) falls below 2.0 the subsequent semester. A veteran student on Lack of Progress probation status will be disqualified if he/she does not complete over 60% of attempted units in 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 students 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, DD2685, Joint Services Transcript, or Smart Transcript 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. Visit the Veterans Affairs Office for necessary forms.



# Student Affairs



# Student Affairs

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<b>Telephone</b>	<b>619- 388-2699</b>
<b>Location</b>	<b>I4-408</b>
<b>Website</b>	<b><a href="http://www.sdmesa.edu/student-affairs">www.sdmesa.edu/student-affairs</a></b>

## Associated Student (A.S.)

<b>Telephone</b>	<b>619-388-2903</b>
<b>Location</b>	<b>I4-409</b>

## Associated Students Membership (To purchase)

<b>Telephone</b>	<b>619-388-2903</b>
<b>Location</b>	<b>I4-106</b>
<b>Website</b>	<b><a href="http://www.sdccd.edu/students/">www.sdccd.edu/students/</a></b>

## Student Clubs and Organizations (For questions)

<b>Telephone</b>	<b>619-388-2699</b>
<b>Location</b>	<b>I4-408</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 Services Outcomes

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

- Through participation in Associated Students and Inter Club Council students will develop and fulfill self-identified goals for their personal development.
- Through participation in civility projects, students will be able to demonstrate an understanding of civility and the place it has on our campus.
- Clubs and organizations that participate in Club Rush will be able to determine the most effective methods for generating interest in student groups and implementing those methods.

## 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 Students (A.S.)

The Associated Students is the representative body of the students in the shared governance process at Mesa College. The Associated Students 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.

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

## 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 A.S. membership online.

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

- Admission to Athletic Events
- A.S. 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
- Cultural Events
- Leadership Opportunities (including conferences and workshops)
- Mesa College Departments and Programs
- Scholarships & Awards

## Want to Get Involved?

The Associated Students meets every Monday and Wednesday, from 12:45 pm–1:45 pm. Meeting agendas are posted outside of I4-409. Please keep these times open and become part of Associated Students.

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
- Holiday Fair

- Leadership Retreats/Workshops/Conferences
- 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.

## Honors Program

The Honors Program is designed for highly motivated students. The program encourages the cultivation of curiosity and makes possible the exploration of ideas and subjects beyond customary coursework. Honors Students have the opportunity to work closely with faculty through honors contracts and/or courses. Students engage in intellectual and academically challenging learning environments for a richer educational experience. Anyone can become an Honors Student! For more information about the Honors Program, please visit [www.sdmesa.edu/honors](http://www.sdmesa.edu/honors).

**Honors Program Coordinators:** Cara Smulevitz, [csmulevitz@sdccd.edu](mailto:csmulevitz@sdccd.edu)

## Honor Societies

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

### Phi Theta Kappa (ΦΘΚ)

The Beta Beta Upsilon Chapter of Phi Theta Kappa 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: Scott Plambek, [splambek@sdccd.edu](mailto:splambek@sdccd.edu)

### Psi Beta (ΨΒ)

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

## Honors Club

The Honors Club is a Mesa College student organization that unites honors students to network and share volunteer opportunities, scholarship information, and transfer support.

Advisor: Gary Carter



## San Diego Mesa College Art Gallery

Located next to the Learning Resource Center, the Art Gallery presents outstanding artwork by established and emerging artists.

Exhibitions change every month and feature a wide range of media reflecting our Art Program: painting, photography, sculpture, ceramics, digital art, installation and video. Our college offers San Diego's only hands-on program in Museum Studies and Gallery Management. Take our credit courses and learn from local arts professionals.

Students completing two semesters of coursework are placed in a supervised internship at a local museum or arts organizations. For more information go to [www.sdmesa.edu/art-gallery/museum.html](http://www.sdmesa.edu/art-gallery/museum.html) and check the college schedule and catalog.

The San Diego Mesa College Art Gallery is open to the public and admission is FREE. Hours of operation are Monday, Tuesday, Wednesday from 11 AM – 4 PM, Thursday 11 AM – 8 PM. Closed Weekends, Fridays and School Holidays. For exhibit information call us at (619) 388-2829, visit our website [www.sdmesa.edu/art-gallery](http://www.sdmesa.edu/art-gallery), or view our Facebook page.

# Administrative Services



# Office of the Vice President of Administrative Services

The Office of the Vice President of Administrative Services' role is to provide leadership, coordination, and assistance for the overall administrative functions of the College. These College functions include: business services (budget, purchasing, finance), employment services and payroll, facilities planning, construction and operations, printing services and mail, shipping and receiving, student accounting, college technology services, public safety and parking, food services, and bookstore.

## Administrative Unit Outcomes

- Demonstrate the use of efficient business processes and practices through the integration of technology and the implementation of the PeopleSoft Enterprise Resource Planning System.
- Demonstrate the development of long term planning for technology replacement, equipment service maintenance agreements, and program equipment replacement.
- Campus clients will receive high-quality administrative services in support of the college-wide mission.

## Business Services

The Business Services office provides timely and accurate financial information and services to support and assist students, faculty, staff, the District, and external entities by utilizing sound accounting practices and adhering to proper internal controls which ensures accountability, fiscal compliance, and proper use of public funds. We strive to maintain and enforce professional and ethical standards, while adhering to SDCCD policies and procedures.

## Administrative Unit Outcomes

- Demonstrate improved travel reporting and accounting in conjunction with the new PeopleSoft system implementation.

- Assist with the development of budget and financial training programs for College management.
- Refine chargeback process to eliminate manual processing and improve accuracy.
- Campus clients will receive high-quality business services in support of the college-wide mission.

## Business Office Support

The Division provides complete, accurate, and timely Employment, Payroll Services, and information for Mesa College to the District Office. Using well defined processes, the knowledgeable and customer-focused staff provide excellent customer service, collaborating with employees, departments and business offices.

## Administrative Unit Outcomes

- Demonstrate the use of efficient business processes and practices through the integration of technology and the implementation of the PeopleSoft Enterprise Resource Planning System over the next three years.
- Deans, Managers, and Supervisors will be educated on the PeopleSoft system related to employment services and will be able to utilize reports and data to make informed decisions.

## College Events and Operations

Oversees the planning, organizing, and managing of programs and services of campus operations and events including: facilities operations, maintenance coordination and planning, facilities rental, event coordination, project management, campus office moves, stockroom functions, safety program, and space inventory activities.

## Administrative Unit Outcomes

The San Diego Mesa College Events and Operations team will efficiently connect with our campus partners and students to provide timely, safe and equitable support for events and operations.

## College Technology Services

The College Technology Services Division oversees and manages Mesa College's technology infrastructure. This infrastructure includes, but is not limited to Computers, peripherals, audiovisual equipment, computer servers, networks and wireless internet access systems.

### Administrative Unit Outcomes

- The Technology Services group will ensure students, faculty, and staff have access to reliable academic computing services and systems.
- The Technology Services group will provide technical support for Audio Visual and Computational systems for students, faculty, and staff.

## Printing and Mail Services

Printing and Mail Services provide various printing and graphic services to faculty and staff; provide U.S. and interoffice mail delivery to campus.

### Administrative Unit Outcomes

The Printing and Mail Services staff has identified the following Administrative Unit Outcomes for the various services provided by the Printing and Mail Services.

- San Diego Mesa College Reprographics Center/ Mail Services will provide high quality online digital services to faculty, staff, administrators and students.
- San Diego Mesa College Reprographics Center/ Mail Services will employ current industry practices in order to provide its services to the college.
- San Diego Mesa College Reprographics Center/ Mail Services will provide training, engage in effective communication and deliver exceptional customer service to faculty, staff and students.

## Student Accounting Office

The mission of the Student Accounting Office is to provide efficient, professional support services and to ensure fiscal accountability to our customers within and beyond our campus community while adhering to District's policies and procedures and supporting the college's educational mission.

### Administrative Unit Outcomes

- The Student Accounting Office will provide information for interested parties to improve understanding of mandated processing requirements.
- The Student Accounting Office will provide online information to improve campus community's understanding and use of the process.
- The Student Accounting Office will increase communication to assist students with understanding of the registration payment process.
- The Student Accounting Office will collaborate with District Student Services to improve student registration process through the implementation of the Enterprise Resource Planning System in support of the college-wide mission.





# Academic Information and Regulations



# Academic Information

## 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.

## 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 Policy 3100, Student Rights, Responsibilities, Campus Safety and Administrative Due Process.

Academic dishonesty occurs when a student attempts to show possession of a level of knowledge or skill which he or she does not possess. The two most common kinds of academic dishonesty are cheating and plagiarism. Cheating is defined as the act of obtaining or attempting to obtain credit for academic work by the use of any dishonest, deceptive, or fraudulent means. Plagiarism is defined as the act of incorporating ideas, words, or specific substance of another, whether purchased, borrowed or otherwise obtained, and submitting the same as one's own work to fulfill academic requirements without giving credit to the appropriate source.

Students who engage in practices of cheating or plagiarism may warrant two separate and distinct courses of disciplinary action which may be applied concurrently in response to a violation of this policy. Students are responsible for knowing what constitutes academic dishonesty and for consulting with instructors about questions or concerns. Procedure 3100.3 describes the Academic and Administrative Sanctions for Students who are found to be cheating or Plagiarizing. Copies of the procedures can be obtained in the Office of the Vice President of Student Services and online at <http://www.sdccd.edu/public/district/policies/>.

## 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.

## Dean's List

A Dean's Honor List is compiled after each spring term for the academic year (fall to spring). 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.

## Honors Program

I-109

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 and Irvine; Chapman University; Pitzer and Pomona Colleges; Loyola Marymount University, Occidental College, San Diego State University, and more.

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/).

## 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 844-612-7421. For login instructions visit: [www.sdccdonline.net/login](http://www.sdccdonline.net/login).

## 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.

## Learning Community

In a Learning Community, a group of students take two or more courses together. Instructors come together to coordinate class activities and assignments, so that coursework is broad, deep, relevant, and meaningful. Because students work through the classes together to complete assignments, sometimes forming study groups, they forge close bonds. It has been shown that participation in Learning Community courses contributes to improved student success. Learning Communities are open to all Mesa students. There are a variety of Learning Communities at Mesa College: Mesa Academy, Puente Program, and English. Search “Learning Community” (LCOM) in the class schedule for linked courses.

## Work Experience

S-300

619-388-2789

Work Experience students can receive academic credit for their current employment or internship through work experience courses. 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).

## Distance Education

The San Diego Community College District offers students the opportunity to take online credit courses at San Diego City College, San Diego Mesa College, and San Diego Miramar College. Online courses offer the same curriculum as traditional courses except that lectures and course materials are accessed via the district’s web-based learning management system. Students engage in classroom discussions and online collaborations with other students and the instructor. Online registration, counseling, tutoring, and library services are available. SDCCD offers a variety of courses including general education and transfer requirements online. Courses offered meet the Americans with Disabilities Act (42 U.S.C. §12100 et seq.) and section 508 of the Rehabilitation Act of 1973, as amended, (29 U.S.C. §794d).

To ensure student authentication and academic integrity, students have secure logins and are required to perform activities that demonstrate meaningful participation on a weekly basis. Students must logon the first day of class.

In accordance with federal regulations there are restrictions on enrollment in online classes for students residing outside of California. For more information go to <https://www.sdccd.edu/docs/SSDept/SSDocs/OnlineStatesNotPermitted.pdf>.

## 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	Standing	Grade Points per Unit
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Passing — Less than satisfactory	1
F	Fail	0
P	Pass	Units earned not counted in GPA
NP	No Pass	Units not counted in GPA

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; EW—Excused Withdrawal; 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 Grading Policy on page 69.

**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 District Records Office. 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.

- Students will be allowed a maximum of three 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.

**Excused Withdrawal:** A symbol of “EW”, Excused Withdrawal, may be assigned when a student is permitted to withdraw from a course(s) due to specific circumstances beyond the control of the student affecting his or her ability to complete a course(s).

- Excused withdrawal will not be counted in progress probation and dismissal calculations.
- Excused withdrawal will not be counted as an enrollment attempt.

Students requesting an Excused Withdrawal must obtain a Petition for Excused Withdrawal (EW) available in one of the following offices:

- Admissions
- Counseling
- Office of the Vice-President of Student Services
- Petitions are to be submitted in the Vice-President of Student Services Office for review.
- All petitions must be accompanied by supporting documentation substantiating the student’s extenuating circumstances, including pertinent dates and times.
- It is recommended that students visit with a counselor to discuss alternative options to an Excused Withdrawal to be sure that this choice is the best course of action for the student’s academic career.

## 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

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.” Some courses may be taken for either “Pass/No Pass” or “Letter Grade.”

Consistent with District policy, a student in good standing may elect to be graded on a Pass/No Pass basis in courses where there is an option. 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. No more than 12 units of a student’s coursework completed in the San Diego Community College District graded on a Pass/No Pass basis will be used to meet Associate Degree requirements.

Students who plan to transfer to a four-year institution should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.

### Conditions:

- Students may change from a ‘Letter Grade’ option to a ‘Pass/No Pass’ option during registration or up until the published deadline to select a Pass/No Pass option for the course go to the ‘EDIT Class Enrollment Options’ page on their mySDCCD portal. The deadline is listed in the class search details page when you click the calendar icon (‘Important Deadlines’). After the Pass/No Pass Deadline, the ‘Letter Grade’ or ‘Pass/No Pass’ option may not be changed for that class.

2. **No exceptions to this condition will be made. Petitions will not be accepted for exception to policy.**

## 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 61% 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 cumulative 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 semester 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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#### 1st Disqualification

- Student must meet with a counselor and complete a Student Academic Contract.
- Readmission will be based upon meeting contract conditions.
- Student will lose registration priority until they return to 'Good' Standing.
- Student will lose eligibility for the California College Promise Grant (CCPG) until they return to 'Good' Standing or sit out one full academic year.

#### 2nd Disqualification

- Student will be required to sit out for one semester.
- Student must meet with a counselor and complete a Student Academic Contract.
- Readmission is based upon meeting contract conditions.

- Student will lose registration priority until they return to 'Good' Standing.
- Exceptions must be approved by the Dean of Student Development.

### 3rd Disqualification

- Student will be required to sit out for one full academic year.
- Student initiates a petition for readmission.
- If the petition is accepted for further consideration, the student will meet with a Hearing panel to present his/her case for readmission.
- If the petition is approved, the student will enter into a "last chance" agreement.
- If you are permitted to return, your registration priority will not resume until you return to 'Good' Standing.

### Readmission after disqualification

- Students who have been disqualified three or more times must file a Petition for Readmission. Students must provide supporting documentation of how circumstances have changed to allow for academic success. If the Petition is accepted for consideration, the student will be invited to present his/her case to a hearing panel. Information for filing a Petition for Readmission are available online under Standards of Academic Progress at: <https://www.sdccd.edu/students/college-policies/standards-of-academic-progress.aspx>. Deadline dates for filing a Petition for Readmission are available online at: <https://www.sdccd.edu/students/dates-and-deadlines/index.aspx>.

## Academic Regulations

### Course Repetition Policy

- No course in which a "C" or better grade has been earned may be repeated, unless students meet the following exception criteria:
  - Legally Mandated Training Requirement
  - Disabled Student as part of a Disability-Related Accommodation

- Extenuating Circumstances beyond the control of the student (documentation required)
- Significant Lapse of Time

- Students will not be allowed more than four enrollments in similar active participatory courses in Exercise Science and Visual and Performing Arts, regardless of grade or symbol earned.
- Academic renewal is not allowed for work experience courses.
- Each course in which an unsatisfactory grade ("D," "F," or "NP") has been earned may be repeated twice 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.
- Students will not be allowed more than three enrollments in any course, regardless of grade or symbol earned.
- Academic renewal by course repetition for the third course will only be applicable when the third course repeated was completed spring 2010 or later.

### Course Repetition—Limitations on Active Participatory Courses

Due to changes in the regulations that govern community colleges, enrollment limits have been placed on certain types of active participatory courses that are related in content. Active participatory courses include courses in exercise science, visual arts, and performing arts (e.g., music, art, photography, theatre arts). These courses have been put into groups of courses related in content. A student may enroll in active participatory courses in exercise science, visual arts, or performing arts that are in a group of related content for no more than four (4) courses in each content area (group). All grades, including "W's," will count toward the four course enrollment maximum for each group of courses. See the current listing of groups of courses related in content in the Students section under "Course Repetition - Limitations on Active Participatory Courses" online at: <https://www.sdccd.edu/students/forms-and-documents.aspx>. For further information regarding course groupings, please consult with a counselor.

## Academic Renewal Without Course Repetition

A student with substandard academic performance (GPA below 2.0) that is not reflective of present demonstrated ability may petition to have a maximum of 12 units or one full semester, whichever is greater, of substandard performance 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 coursework to be disregarded was completed.
2. A maximum of 12 units or one semester 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.
3. If grade alleviation has already been applied two times for a course, the course will not be eligible for academic renewal without repetition and will remain on the academic record.
4. 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.
5. Academic renewal without course repetition may be applied to substandard course(s)/semester(s) from another accredited institution.
6. 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.
7. Recalculation of the grade point average will be used toward qualification for graduation with honors.
8. Academic standing for the semester/session(s) will not be adjusted.
9. Once the petition is approved, the action is not reversible.
10. Once an associate degree has been posted to the student's academic record, academic renewal without course repetition may only be applied to classes with an evaluative symbol of "F".

## 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, or 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 DSPS 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 the 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.



## Academic Transcripts

### 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://www.sdccd.edu/students/transcripts/>.

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 District 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. 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 immediately upon 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: <https://www.sdccd.edu/students/transcripts/>.

## Transfer of Credits

### 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 not in an official, sealed envelope will be considered unofficial.
- 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

### Upper Division Coursework

The San Diego Community College District (SDCCD) accepts all lower division courses taken at U.S. regionally accredited colleges. All lower division courses will be counted toward the Associate degree. The SDCCD does not accept upper division coursework. Petitions to use upper division courses from U.S. regionally accredited colleges will only be accepted if needed to meet minimum Associate degree requirements for the major or district requirements. All petitions must be approved by the faculty in the discipline, or an appropriate designee, and/or college committee.

### International Transfer Credits

Students who elect to submit transcripts from international colleges and universities must submit

their transcripts to an approved credential evaluation service, and request a comprehensive evaluation be sent to San Diego City, Mesa, or Miramar College. Credit for transfer courses taken at an institution outside the United States are evaluated dependent upon course equivalency and student learning outcomes on a course by course basis. International transcripts are not required. Students who elect to waive the requirement of an international transcript must submit a Foreign Transcript Waiver Agreement form available at the college Counseling Office. For more information contact the District Evaluations Office.

## Credits from Other Regionally Accredited Institutions

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.

## Credit for Prior Learning

### Academic Credit for Nontraditional Education

#### (Administrative Procedure AP-3900.4)

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:

- AP and CLEP examinations may be used to partially clear the American Institutions requirement. See following charts regarding nontraditional education for details.
- 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.
- Credit granted by SDCCD does not necessarily transfer to other institutions. Transferability of credit is determined by the receiving college or university.
- Credit awarded through non-traditional education may not be used for grade alleviation.
- A maximum of 30 cumulative units may be granted for acceptable scores on any combination of AP, CLEP, DANTES, or IB.
- Duplicate credit will not be awarded for nontraditional education sources and completed coursework.

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

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

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Art History</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C1 <u>or</u> C2 IGETC: 3 semester units towards Area 3A <u>or</u> 3B	SDCCD: ARTF 110 <u>or</u> ARTF 111
<b>Biology</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 4 semester units towards Area B CSU GE: 4 semester units towards Area B2 & B3 IGETC: 4 semester units towards Area 5B & 5C	SDCCD: N/A
<b>Calculus AB<sup>1</sup></b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area A2 and Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: 3 semester units towards Area 2A	SDCCD: N/A
<b>Calculus BC/AB subscore<sup>1</sup></b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area A2 <u>and</u> Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: 3 semester units towards Area 2A	SDCCD: N/A
<b>Calculus BC<sup>1</sup></b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area A2 <u>and</u> Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: 3 semester units towards Area 2A	SDCCD: N/A
<b>Chemistry</b> 3 <i>Exam taken prior to Fall 2009</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 6 semester units towards Area B CSU GE: 6 semester units towards Area B1 & B3 IGETC: 4 semester units towards Area 5A & 5C	SDCCD: CHEM 200
<b>Chemistry</b> 4 or 5 <i>Exam taken prior to Fall 2009</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 6 semester units towards Area B CSU GE: 6 semester units towards Area B1 & B3 IGETC: 4 semester units towards Area 5A & 5C	SDCCD: CHEM 200 & CHEM 201
<b>Chemistry</b> 3 <i>Exam taken Fall 2009 or later</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 4 semester units towards Area B CSU GE: 4 semester units towards Area B1 & B3 IGETC: 4 semester units towards Area 5A & 5C	SDCCD: CHEM 200

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Chemistry</b> 4 or 5 <i>Exam taken Fall 2009 or later</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 4 semester units towards Area B CSU GE: 4 semester units towards Area B1 & B3 IGETC: 4 semester units towards Area 5A & 5C	SDCCD: CHEM 200 & CHEM 201
<b>Chinese Language &amp; Culture</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>Comparative Government &amp; Politics</b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D8 IGETC: 3 semester units towards Area 4H	SDCCD: POLI 103
<b>Computer Science A<sup>1</sup></b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 2 quarter/1.3 semester units	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Computer Science AB<sup>1</sup></b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Computer Science Principles</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: N/A CSU GE: 3 semester units towards Area B4 IGETC: N/A	SDCCD: N/A
<b>English Language and Composition</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units <sup>2</sup>	SDCCD GE: 3 semester units towards Area A1 <u>and</u> Reading and Written Expression Competency CSU GE: 3 semester units towards Area A2 IGETC: 3 semester units towards Area 1A	SDCCD: ENGL 101
<b>English Literature and Composition</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units <sup>2</sup>	SDCCD GE: 6 semester units towards Area A1 & C <u>and</u> Reading and Written Expression Competency CSU GE: 6 semester units towards Area A2 & C2 IGETC: 3 semester units towards Area 1A <u>or</u> 3B	SDCCD: ENGL 101

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Environmental Science</b> 3 <i>Exam taken prior to Fall 2009</i>	SDCCD: 4 semester units CSU: 4 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 4 semester units towards Area B CSU GE: 4 semester units towards Area B1 & B3 <u>or</u> Area B2 & B3 IGETC: 3 semester units towards Area 5A & 5C	SDCCD: N/A
<b>Environmental Science</b> 4 or 5 <i>Exam taken prior to Fall 2009</i>	SDCCD: 4 semester units CSU: 4 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 4 semester units towards Area B CSU GE: 4 semester units towards Area B1 & B3 <u>or</u> Area B2 & B3 IGETC: 3 semester units towards Area 5A & 5C	SDCCD: BIOL 120
<b>Environmental Science</b> 3 <i>Exam taken Fall 2009 or later</i>	SDCCD: 4 semester units CSU: 4 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 4 semester units towards Area B CSU GE: 4 semester units towards Area B1 & B3 IGETC: 3 semester units towards Area 5A & 5C	SDCCD: N/A
<b>Environmental Science</b> 4 or 5 <i>Exam taken Fall 2009 or later</i>	SDCCD: 4 semester units CSU: 4 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 4 semester units towards Area B CSU GE: 4 semester units towards Area B1 & B3 IGETC: 3 semester units towards Area 5A & 5C	SDCCD: BIOL 120
<b>European History</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C <u>or</u> D CSU GE: 3 semester units towards Area C2 <u>or</u> D6 IGETC: 3 semester units towards Area 3B <u>or</u> 4F	SDCCD: N/A
<b>French Language</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 6 semester units towards Area C CSU GE: 6 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>French Language</b> 3, 4, or 5 <i>Exam taken between Fall 2009 and Fall 2011</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>French Language and Culture</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>French Literature</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>German Language</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 6 semester units towards Area C CSU GE: 6 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>German Language</b> 3, 4, or 5 <i>Exam taken between Fall 2009 and Fall 2011</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>German Language and Culture</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>Human Geography</b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D5 IGETC: 3 semester units towards Area 4E	SDCCD: GEOG 102
<b>Italian Language and Culture</b> 3	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: ITAL 101

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Italian Language and Culture</b> 4 or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: ITAL 102
<b>Japanese Language and Culture</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>Latin Literature</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>Latin</b> 3, 4 or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>Latin: Vergil</b> 3, 4, or 5 <i>Exam taken prior to Fall 2012</i>	SDCCD: 3 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>Macroeconomics</b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D2 IGETC: 3 semester units towards Area 4B	SDCCD: ECON 120
<b>Microeconomics</b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D2 IGETC: 3 semester units towards Area 4B	SDCCD: ECON 121
<b>Music Theory</b> 3, 4, or 5	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: N/A UC: N/A	SDCCD: N/A

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Music Theory</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD: 3 semester units towards Area C CSU GE: 3 semester units towards Area C1 IGETC: N/A	SDCCD: N/A
<b>Music Theory</b> 3, 4, or 5 <i>Exam taken Fall 2009 or later</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Physics B</b> 3, 4, or 5 <i>Exam taken prior to Fall 2009</i>	SDCCD: 6 semester units <sup>3</sup> CSU: 6 semester units <sup>3</sup> UC: 8 quarter/5.3 semester units <sup>5</sup>	SDCCD GE: 6 semester units towards Area B <sup>3</sup> CSU GE: 6 semester units towards Area B1 & B3 <sup>3</sup> IGETC: 4 semester units towards Area 5A & 5C	SDCCD: N/A
<b>Physics B</b> 3, 4, or 5 <i>Exam taken between Fall 2009 and Fall 2015</i>	SDCCD: 6 semester units <sup>3</sup> CSU: 6 semester units <sup>3</sup> UC: 8 quarter/5.3 semester units <sup>5</sup>	SDCCD GE: 4 semester units towards Area B <sup>3</sup> CSU GE: 4 semester units towards Area B1 & B3 <sup>3</sup> IGETC: 4 semester units towards Area 5A & 5C	SDCCD: N/A
<b>Physics 1</b> 3, 4, or 5	SDCCD: 4 semester units <sup>3</sup> CSU: 4 semester units <sup>3</sup> UC: 8 quarter/5.3 semester units <sup>5</sup>	SDCCD GE: 4 semester units towards Area B <sup>3</sup> CSU GE: 4 semester units towards Areas B1 & B3 <sup>3</sup> IGETC: N/A	SDCCD: N/A
<b>Physics 2</b> 3, 4, or 5	SDCCD: 4 semester units <sup>3</sup> CSU: 4 semester units <sup>3</sup> UC: 8 quarter/5.3 semester units <sup>5</sup>	SDCCD GE: 4 semester units towards Area B <sup>3</sup> CSU GE: 4 semester units towards Area B1 & B3 <sup>3</sup> IGETC: N/A	SDCCD: N/A
<b>Physics C (electricity / magnetism)</b> 3, 4, or 5	SDCCD: 4 semester units <sup>3</sup> CSU: 4 semester units <sup>3</sup> UC: 4 quarter/2.6 semester units <sup>5</sup>	SDCCD GE: 4 semester units towards Area B <sup>3</sup> CSU GE: 4 semester units towards Areas B1 & B3 <sup>3</sup> IGETC: 3 semester units towards Areas 5A & 5C <sup>4</sup>	SDCCD: N/A
<b>Physics C (mechanics)</b> 3, 4, or 5	SDCCD: 4 semester units <sup>3</sup> CSU: 4 semester units <sup>3</sup> UC: 4 quarter/2.6 semester units <sup>5</sup>	SDCCD GE: 4 semester units towards Area B <sup>3</sup> CSU GE: 4 semester units towards Areas B1 & B3 <sup>3</sup> IGETC: 3 semester units towards Areas 5A & 5C <sup>4</sup>	SDCCD: N/A
<b>Psychology</b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D9 IGETC: 3 semester units towards Area 4I	SDCCD: PSYC 101



## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Seminar</b> 3, 4, 5	SDCCD: 6 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Spanish Language</b> 3, 4, or 5 <i>Exam taken prior to Spring 2014</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 6 semester units towards Area C CSU GE: 6 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>Spanish Language and Culture</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>Spanish Literature</b> 3, 4, or 5 <i>Exam taken prior to Spring 2013</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 6 semester units towards Area C CSU GE: 6 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>Spanish Literature and Culture</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <u>and</u> Area 6A Competency	SDCCD: N/A
<b>Statistics</b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area A2 <u>and</u> Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: 3 semester units towards Area 2A	SDCCD: MATH 119
<b>Studio Art: Drawing</b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 8 quarter/5.3 semester units <sup>6</sup>	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: ARTF 150A & ARTF 155A
<b>Studio Art: 2-D Design</b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 8 quarter/5.3 semester units <sup>6</sup>	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A

## Advanced Placement Test (AP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Studio Art: 3-D Design</b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 8 quarter/5.3 semester units <sup>6</sup>	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>U.S. Government &amp; Politics</b> 3, 4, or 5	SDCCD: 3 semester units CSU: 3 semester units UC: 4 quarter/2.6 semester units	SDCCD GE: 3 semester units towards Area D & US-2 <sup>7</sup> CSU GE: 3 semester units towards Area D8 & US-2 <sup>7</sup> IGETC: 3 semester units towards Area 4H & US-2 <sup>7</sup>	SDCCD: POLI 101
<b>U.S. History</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C & US-1 <u>or</u> Area D & US-1 <sup>7</sup> CSU GE: 3 semester units towards Area C2 & US-1 <u>or</u> Area D6 & US-1 <sup>7</sup> IGETC: 3 semester units towards Area 3B & US-1 <u>or</u> Area 4F & US-1 <sup>7</sup>	SDCCD: HIST 109
<b>World History</b> 3, 4, or 5	SDCCD: 6 semester units CSU: 3 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C <u>or</u> D CSU GE: 3 semester units towards Area C2 <u>or</u> D6 IGETC: 3 semester units towards Area 3B <u>or</u> 4F	SDCCD: HIST 101

\* 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.
7. Students who have completed the American Institutions requirement except for the California government portion must complete one course approved in Area US-3.
8. Students who pass AP Environmental Science earn 4 units of credit. Tests prior to Fall 2009 may apply to either B1+B3 or B2+B3 of GE Breadth. Fall of 2009 or later, those credits may only apply to B1+B3.

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	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Biology</b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area B CSU GE: 3 semester units towards Area B2 IGETC: 3 semester units towards Area 5B	SDCCD: N/A
<b>Chemistry</b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area B CSU GE: 3 semester units towards Area B1 IGETC: 3 semester units towards Area 5A	SDCCD: N/A
<b>Economics</b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D2 IGETC: 3 semester units towards Area 4B	SDCCD: ECON 120 & ECON 121
<b>Geography</b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D5 IGETC: 3 semester units towards Area 4E	SDCCD: N/A
<b>History (any region)</b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C <u>or</u> D CSU GE: 3 semester units towards Area C2 <u>or</u> D6 IGETC: 3 semester units towards Area 3B <u>or</u> 4F	SDCCD: N/A
<b>Language A1 (any language)</b> 4 Higher Level <i>Exam taken prior to Fall 2013</i>	SDCCD: 6 semester units CSU: 6 semester units UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>Language A1 (any language)</b> 5-7 Higher Level <i>Exam taken prior to Fall 2013</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <sup>1</sup>	SDCCD: N/A
<b>Language A2 (any language)</b> 4 Higher Level <i>Exam taken prior to Fall 2013</i>	SDCCD: 6 semester units CSU: 6 semester units UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A

## International Baccalaureate (IB) Credit

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Language A2 (any language)</b> 5-7 Higher Level <i>Exam taken prior to Fall 2013</i>	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <sup>1</sup>	SDCCD: N/A
<b>Language A Literature</b> 4 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>Language A Literature</b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <sup>1</sup>	SDCCD: N/A
<b>Language A Language and Literature</b> 4 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>Language A Language and Literature</b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: 3 semester units towards Area 3B <sup>1</sup>	SDCCD: N/A
<b>Language B (any language)<sup>2</sup></b> 4 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Language B (any language)<sup>2</sup></b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: N/A CSU GE: N/A IGETC: Area 6A Competency	SDCCD: N/A
<b>Mathematics</b> 4 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: N/A	SDCCD GE: 3 semester units towards Area A2 <u>and</u> Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: N/A	SDCCD: N/A
<b>Mathematics</b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area A2 <u>and</u> Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: 3 semester units towards Area 2A	SDCCD: N/A

## International Baccalaureate (IB) Credit

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Physics</b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area B CSU GE: 3 semester units towards Area B1 IGETC: 3 semester units towards Area 5A	SDCCD: N/A
<b>Psychology</b> 5-7 Higher Level	SDCCD: 3 semester units CSU: 3 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D9 IGETC: 3 semester units towards Area 4I	SDCCD: N/A
<b>Theatre</b> 4 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C1 IGETC: N/A	SDCCD: N/A
<b>Theatre</b> 5-7 Higher Level	SDCCD: 6 semester units CSU: 6 semester units UC: 8 quarter/5.3 semester units	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C1 IGETC: 3 semester units towards Area 3A	SDCCD: N/A
* Credit may not be awarded for exams which duplicate credit for the same content earned through other means.			
1. Students who pass the Language A or A1 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	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>American Government</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D8 IGETC: N/A	SDCCD: N/A
<b>American Literature</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A

## College Level Examination Program (CLEP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Analyzing and Interpreting Literature</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>Biology</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area B CSU GE: 3 semester units towards Area B2 IGETC: N/A	SDCCD: N/A
<b>Calculus</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area A2 <u>and</u> Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: N/A	SDCCD: N/A
<b>Chemistry</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area B CSU GE: 3 semester units towards Area B1 IGETC: N/A	SDCCD: N/A
<b>College Algebra</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area A2 <u>and</u> Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: N/A	SDCCD: N/A
<b>College Algebra - Trigonometry</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area A2 <u>and</u> Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: N/A	SDCCD: N/A
<b>College Composition</b> 50 or higher	SDCCD: N/A CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>College Composition - Modular</b> 50 or higher	SDCCD: N/A CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>College Mathematics</b> 50 or higher	SDCCD: N/A CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>English Composition (no Essay)</b> 50 or higher	SDCCD: N/A CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A

## College Level Examination Program (CLEP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>English Composition with Essay</b> 50 or higher	SDCCD: N/A CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>English Literature</b> 50 or higher <i>Exam taken prior to Fall 2011</i>	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>Financial Accounting</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>French – Level I</b> 50 or higher	SDCCD: 6 semester units <sup>1</sup> CSU: 6 semester units <sup>1</sup> UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>French – Level II</b> 59 or higher <i>Exam taken prior to Fall 2015</i>	SDCCD: 12 semester units <sup>1</sup> CSU: 12 semester units <sup>1</sup> UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>French – Level II</b> 59 or higher	SDCCD: 9 semester units <sup>1</sup> CSU: 9 semester units <sup>1</sup> UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>Freshman College Composition</b> 50 or higher	SDCCD: N/A CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>German – Level I</b> 50 or higher	SDCCD: 6 semester units <sup>1</sup> CSU: 6 semester units <sup>1</sup> UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>German – Level II</b> 60 or higher <i>Exam taken prior to Fall 2015</i>	SDCCD: 12 semester units <sup>1</sup> CSU: 12 semester units <sup>1</sup> UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>German – Level II</b> 60 or higher	SDCCD: 9 semester units <sup>1</sup> CSU: 9 semester units <sup>1</sup> UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>History of the United States I</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area D & US-1 <sup>2</sup> CSU GE: 3 semester units towards Area D6 & US-1 <sup>2</sup> IGETC: N/A	SDCCD: N/A

## College Level Examination Program (CLEP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>History of the United States II</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area D & US-1 <sup>2</sup> CSU GE: 3 semester units towards Area D6 & US-1 <sup>2</sup> IGETC: N/A	SDCCD: N/A
<b>Human Growth and Development</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: N/A CSU GE: 3 semester units towards Area E IGETC: N/A	SDCCD: N/A
<b>Humanities</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>Information Systems and Computer Applications</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Introduction to Educational Psychology</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Introductory Business Law</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Introductory Psychology</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D9 IGETC: N/A	SDCCD: N/A
<b>Introductory Sociology</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D0 IGETC: N/A	SDCCD: N/A
<b>Natural Sciences</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area B CSU GE: 3 semester units towards Area B1 <u>or</u> B2 IGETC: N/A	SDCCD: N/A
<b>Pre-Calculus</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area A2 <u>and</u> Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: N/A	SDCCD: N/A



## College Level Examination Program (CLEP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Principles of Accounting</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Principles of Macroeconomics</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D2 IGETC: N/A	SDCCD: N/A
<b>Principles of Management</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Principles of Marketing</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Principles of Microeconomics</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D2 IGETC: N/A	SDCCD: N/A
<b>Social Sciences and History</b> 50 or higher	SDCCD: N/A CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Spanish – Level I</b> 50 or higher	SDCCD: 6 semester units <sup>1</sup> CSU: 6 semester units <sup>1</sup> UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Spanish – Level II</b> 63 or higher <i>Exam taken prior to Fall 2015</i>	SDCCD: 12 semester units <sup>1</sup> CSU: 12 semester units <sup>1</sup> UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>Spanish – Level II</b> 63 or higher	SDCCD: 9 semester units <sup>1</sup> CSU: 9 semester units <sup>1</sup> UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: 3 semester units towards Area C2 IGETC: N/A	SDCCD: N/A
<b>Trigonometry</b> 50 or higher <i>Exam taken prior to Fall 2006</i>	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area A2 and Mathematics Competency CSU GE: 3 semester units towards Area B4 IGETC: N/A	SDCCD: N/A
<b>Western Civilization I</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area C or D CSU GE: 3 semester units towards Area C2 or D6 IGETC: N/A	SDCCD: N/A

## College Level Examination Program (CLEP)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Western Civilization II</b> 50 or higher	SDCCD: 3 semester units CSU: 3 semester units UC: N/A	SDCCD GE: 3 semester units towards Area D CSU GE: 3 semester units towards Area D6 IGETC: N/A	SDCCD: N/A
* Credit may not be awarded for exams which duplicate credit for the same content earned through other means.			
<ol style="list-style-type: none"> <li>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.</li> <li>2. Students who have completed the American Institutions requirement except for the California government portion must complete one course approved in Area US-3.</li> </ol>			
Credit is not awarded for the following exams: College Composition, College Composition Modular, 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	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>A History of the Vietnam War</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Art of the Western World</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Astronomy</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: 3 semester units towards Area B CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Business Ethics &amp; Society</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Business Mathematics</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Criminal Justice</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Environment and Humanity</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A

## DANTES Subject Standardized Test (DANTES/DSST)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Ethics in America</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Foundations of Education</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Fundamentals of College Algebra</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: 3 semester units towards Area A2 and Mathematics Competency CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Fundamentals of Counseling</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Fundamentals of Cybersecurity</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Here's to Your Health</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: Health Education District Requirement CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Human Cultural Geography</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Human Resources Management</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Introduction to Business</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: 3 semester units towards Area D CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Introduction to Computing</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Introduction to Law Enforcement</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: 3 semester units towards Area D CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Introduction to World Religions</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: 3 semester units towards Area C CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Lifespan Developmental Psychology</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A

## DANTES Subject Standardized Test (DANTES/DSST)

EXAM AND REQUIRED SCORE	UNIT REQUIREMENTS FULFILLED	GENERAL EDUCATION (GE) REQUIREMENTS FULFILLED	MAJOR REQUIREMENTS FULFILLED
<b>Management Information Systems</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Organizational Behavior</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Personal Finance</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Principles of Finance</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Principles of Physical Science</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: 3 semester units towards Area B CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Principles of Public Speaking</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: 3 semester units towards Area A2 CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Principles of Statistics</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: 3 semester units towards Area A2 and Mathematics Competency CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Principles of Supervision</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Substance Abuse (formerly Drug &amp; Alcohol Abuse)</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>Technical Writing</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: N/A
<b>The Civil War and Reconstruction</b> 400 or higher	SDCCD: 3 semester units CSU: N/A UC: N/A	SDCCD GE: N/A CSU GE: N/A IGETC: N/A	SDCCD: 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>			

## CTE (Career Technical Education) Transitions Credit by Exam Active Agreements

### High School to San Diego Mesa College

For the most up-to-date listing of active agreements and student requirements, please go online at: <https://bit.ly/2UPKEUG>

San Diego Mesa College Program Area	San Diego Mesa College Course	San Diego Mesa College Units	High School Course (District)
<b>Computer Business Technology</b>	CBTE 101	1	Computer Applications in Business 1,2 (SDUSD)
	CBTE 120	2	
<b>Culinary Arts/Culinary Management</b>	CACM 101	3	Culinary Arts 1,2 (SDUSD)
<b>Culinary Arts/Culinary Management</b>	CACM 101	3	Culinary Arts & Food Science (Escondido Union High School District)
<b>Culinary Arts/ Culinary Management</b>	CACM 105	3	Advanced Culinary Arts & Restaurant Management (Escondido Union High School District)
<b>Child Development</b>	CHIL 160	2	Developmental Psychology of Children 1-4 (SDUSD)
	CHIL 161	2	
<b>Education</b>	EDUC 200	2	Introduction to Teaching and Learning 1-4 (SDUSD)
	EDUC 203	1	
<b>Multimedia</b>	MULT 101	4	Multimedia Production 1,2 (SDUSD)
<b>Multimedia</b>	MULT 120	3	Game Design 1,2 (SDUSD)
<b>Geographic Information Systems</b>	GISG 110	3	GIS & Global Technologies (SDUSD)

## San Diego Continuing Education to College CTE Transitions Credit by Exam

### San Diego Continuing Education to San Diego Mesa College

For the most up-to-date listing of active agreements and student requirements, please go online at: <https://bit.ly/2S51Bqx>

To request college credit, San Diego Continuing Education students must work with their SDCE instructor and through the San Diego Continuing Education Instructional Services Office: 619-388-4850

San Diego Mesa College Program Area	San Diego Mesa College Course	San Diego Mesa College Units	San Diego Continuing Education Course
<b>Business Information Worker</b>	CBTE 101	1	OFSY 541 Keyboarding Multilevel
	CBTE 120	2	OFSY 596 Word Processing- Beginning
	CBTE 122	3	OFSY 599 Word Processing- Advanced
	CBTE 127	2	COMM 614 Computer Presentations
	CBTE 140	2	OFSY 575 Spreadsheets - Beginning
	CBTE 152	2	OFSY 510 Database Systems-Beginning <b>AND</b> OFSY 511 Database Systems-Intermediate
<b>Fashion</b>	FASH 130	3	CLTX 620 Sewing Fundamentals I <b>AND</b> CLTX 625 Sewing Fundamentals II <b>AND</b> CLTX 630 Sewing like a Professional <b>AND</b> CLTX 635 Contemporary Tailoring
	FASH 199A	1	
	FASH 199A	1	
<b>Health</b>	MEDA 110	3	HLTH 612 Medical Terminology
<b>Multimedia</b>	MULT 100	3	COMM 660 Visual Design <b>AND</b> COMM 661 Vector Design <b>AND</b> COMM 662 Page Layout Design
	MULT 123	3	COMM 667 Motion Graphics <b>AND</b> COMM 668 Video Production
<b>Web Development</b>	WEBD 152	2	COMM 641 Web Programming Beginning
	WEBD 127	3	COMM 642 User Interface Design <b>AND</b> COMM 643 Design Principles
	WEBD 164	3	COMM 644 Web Programming Intermediate
	WEBD 168	2	COMM 646 Responsive Web Design
	WEBD 169	3	COMM 669 Content Management Systems

## Credit by Examination designed and approved by individual disciplines

### (Administrative Procedure AP-3900.1)

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.

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

## 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. For questions and more information, contact CTE Transitions Program at 619-388-6572.

## Acceptance and Application of Military Credit

### (Administrative Procedure AP-3900.3 and 3900.5)

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:

- Joint Services Transcript
- 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)

Military service credit may be granted upon verification of six (6) months of continuous active duty, or completion of basic training for National Guard/Reservists. Four (4) units of credit may be awarded to meet the district graduation requirements in Health and PE. Three (3) of those units may also be used to satisfy Area E of the CSU General Education Breadth pattern.

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.

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

## 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.

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

### (Administrative Procedure AP-3900.1)

As part of an early college program called CTE Transitions (formerly known as Tech Prep), high school students may earn college credit equivalent to the courses in the table on page 94. 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 CTE Transitions certification process. The high school instructor must verify grades, ensure successful completion of enrollment process and assists students with submitting requests for grades to the CTE Transitions Office. Approved requests are processed annually each July. Students may request an SDCCD transcript after July 31st. For questions

and more information, contact the CTE Transitions Program at 619-388-6572.

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

## Academic Accommodations and Disability Discrimination 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 may request and utilize academic accommodations, including those that take place in a clinical setting, without compromising the essential components of the course, educational program or degree.

SDCCD identifies Disability Support Programs and Services (DSPS), or the campus 504 officer, as the office to determine academic accommodations under Section 504 of the 1973 Rehabilitation Act.

The Site Compliance Officer (SCO) is identified as the campus individual to handle all discrimination grievances under the Americans with Disabilities Act or the District's Equal Employment Opportunity and Diversity Office, BP 3410.

The intent of this policy is to ensure 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.

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

Students with verified disabilities who may require academic accommodations or auxiliary aids are strongly recommended to contact the Disability Support Programs and Services (DSPS) Department, Room 14-405, 619-388-2780 and complete the 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 time lines necessary to provide appropriate accommodations. Students enrolled in online courses are encouraged to contact the college DSPS department where the courses are being offered to request academic accommodation. Questions regarding academic accommodations and disability discrimination, including how to file a complaint or a formal grievance with regards to academic accommodations should be directed to the college 504 Officer, Claudia Perkins [cperkins@sdccd.edu](mailto:cperkins@sdccd.edu) at 619-388-2770 in LRC - Room 464.

Students may file a complaint with the Chancellor of the California Community Colleges within thirty calendar days of the event or following the completion of the college Accommodation Grievance process. (<http://californiacommunitycolleges.cccco.edu>).

Students may file a complaint with the Federal Office of Civil Rights in San Francisco, California, if he or she believes that the college or one of its representatives is violating his or her rights. ([www.2ed.gov/about/offices/list/ocr/doc/howto.pdf](http://www.2ed.gov/about/offices/list/ocr/doc/howto.pdf))

## 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, Campus Safety and Administrative Due Process). You may view a full copy of the policy by accessing the following website:



<http://www.sdccd.edu/public/district/policies/>;  
or

- 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.

## Consumer Information

The Student Consumer Information Regulations of the United States Department of Education require all colleges and universities to provide their students access to certain information to which they are entitled to as consumers. Under these regulations, San Diego City, Mesa, and Miramar College and Continuing Education annually distributes to all students a notice of the availability of consumer information. Please visit our webpage at <http://www.sdccd.edu/consumer> to review the information outlined for consumer disclosure by the Higher Education Opportunity Act (HEOA).

This information is available in a hard-copy form upon request.

## Student Right to Know

In compliance with the federal Student-Right-to-Know and Campus Security Act of 1990, it is the policy of the college district to make available completion and transfer rates for all certificate, degree and transfer seeking first-time, full-time students who began in Fall 2016, a three year tracking period.

The completion and transfer rates are listed below:

	Completion Rates	Transfer-Out Rates
City	20.89%	10.84%
Mesa	28.28%	13.28%
Miramar	39.71%	10.00%

These rates do not represent the success rates of the entire student population at the college. Our statewide completion indicators for student success include a six-year tracking period for all first-time students. Current information can be found at: <http://scorecard.cccco.edu/scorecard.aspx>.

## Athlete Graduation Rate for Fall 2015 Cohort

	Initial Cohort	Completion Rate	Transfer Rate
City College/ ECC	18	6%	11%
Mesa College	19	26%	5%
Miramar College	8	25%	0%

Source: SDCCD Information System and National Student Clearinghouse

The cohort includes first-time athletes who are enrolled full-time. Athletes are identified in a fall term based on enrollment in intercollegiate athletic courses. Student athletes are tracked for four years to measure their outcomes. Two measures are provided. The first measure, completion rate, is the total number of students who earn a degree, certificate, or reach transfer prepared status (60 transferable units with a GPA greater than equal to 2.0). The second measure is transfer rate, which includes all non-completers who transferred to a four-year institution. This matches the methodology used for the Student Right-To-Know (SRTK) graduation rates, which is consistent with how the NCAA reports Athlete graduation rates.

## Nondiscrimination Policy

### (Board of Trustees Policy – BP 3410)

San Diego Community College District Board of Trustees Policy BP 3410 prohibits discrimination in accordance with state and federal laws. The San Diego Community College District is committed to equal opportunity in educational programs, employment, and all access to institutional programs and activities.

The District, and each individual who represents the District, shall provide access to its services, classes, and programs without regard to national origin, religion, age, gender, gender identity, gender expression, race or ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, military or veteran status, or because he/she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics. No qualified student with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services,

programs or activities of the district or be subjected to discrimination by it. Lack of English speaking skills and/or visual/hearing impairment will not be a barrier to admission or participation in Career Technical Education programs.

Students wishing to file complaints based upon discrimination should contact the campus Equal Employment Opportunity (EEO) Site Compliance Officer, Claudia Perkins at 619-388-2440 in LRC – Room 464. 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 the campus 504 Officer Claudia Perkins at 619-388-2440 in LRC - Room 464. Students who want to file a disability discrimination grievance under the Americans with Disabilities Act (ADA) should contact the campus Site Compliance Officer (SCO) Claudia Perkins at 619-388-2440.

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

## 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 I4-408.

## Gender Equity

The Gender Equity Coordinator facilitates the development or updating of the campus Gender Equity Plans in cooperation with committees that are responsible for equity concerns. The Title IX Coordinator can be reached at 619-388-6660.

## Additional Information on Policies

Nondiscrimination	A-111B	619-388-2440
Sex Discrimination	A-111B	619-388-2440
Sexual Harassment	A-111B	619-388-2440

Academic Accommodation/ 504 Officer	F-208A	619-388-2440
Student Right to Know	I4-408	619-388-2699
Substance Abuse	L-504	619-388-2774
Crime Awareness	Q-100	619-388-2749

## Title IX. Prohibiting Gender Discrimination and Sexual Harassment

San Diego City, Mesa and Miramar College are committed to support all regulations under Title IX. Title IX states: “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.” – 20 USC 1681

San Diego City, Mesa and Miramar Colleges do not discriminate on the basis of sex, gender, or sexual orientation in its education programs or activities. Title IX of the Education Amendments of 1972, and certain other federal and state laws, prohibit discrimination on the basis of gender, gender identity, or sexual orientation in employment, as well as all education programs and activities, and protect all people regardless of their gender or gender identity from sex discrimination, which includes sexual harassment and sexual violence. These procedures are used when a complaint concerns discrimination on the basis of gender, including sexual harassment.

The sexual harassment of students, including the crime of sexual violence, is a form of sex discrimination and interferes with students’ right to receive an education free from discrimination and harassment.

Sexual violence, as that term is used in this section, refers to physical sexual acts perpetrated against a person’s will or where a person is incapable of giving consent due to the victim’s use of drugs or alcohol.

An individual also may be unable to give consent due to an intellectual or other disability. A number of different acts fall into the category of sexual violence, including rape, sexual assault, sexual battery, and sexual coercion. All such acts of sexual violence are forms of sexual harassment covered under Title IX.

Further information and procedures for filing a formal complaint of discrimination on the basis

of sex or sexual harassment are found online at: <http://www.sdccd.edu/titleix>.

You may also file a complaint with the District's Title IX Coordinator:

Shakerra Carter  
Acting Title IX Coordinator/ Dean, Outreach and Student Affairs  
[scarter001@sdccd.edu](mailto:scarter001@sdccd.edu)  
(619) 388-6547

### **Campus Title IX Deputy**

#### **San Diego City College (M-200)**

Marciano Perez  
Dean of Student Affairs  
[mperez@sdccd.edu](mailto:mperez@sdccd.edu)  
(619) 388-3981

#### **San Diego Mesa College (I4-408)**

Victoria Miller  
Dean of Student Affairs  
[vmiller@sdccd.edu](mailto:vmiller@sdccd.edu)  
(619) 388-2699

#### **San Diego Miramar College (K1-210)**

Cheryl Barnard  
Dean of Student Affairs  
[cbarnard@sdccd.edu](mailto:cbarnard@sdccd.edu)  
(619) 388-7313

#### **San Diego Continuing Education (Rm 104, Educational Cultural Complex (ECC))**

Star Rivera-Lacey, Ph.D.  
Vice President of Student Services  
[srivera@sdccd.edu](mailto:srivera@sdccd.edu)  
(619) 388-4850

## **Drug Abuse and Alcohol Prevention Program (DAAPP)**

The Drug-Free Schools and Communities Act and Drug and Alcohol Abuse Prevention Regulations (Education Department General Administrative Regulations [EDGAR]), specifies that no institution of higher education shall be eligible to receive funds or any other form of financial assistance under any Federal program, including participation in any federally funded or guaranteed student loan program, unless the institution certifies to the Secretary that the institution has adopted and has implemented a program to prevent the use of illicit drugs and the abuse of alcohol by students and employees. In response, the San Diego Community College District (SDCCD) has adopted and implemented program and policies to prevent

the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees.

The San Diego Community College District (San Diego City College, San Diego Mesa College, San Diego Miramar College and Continuing Education) is committed to providing a drug free environment. The institutions also prohibit the use of tobacco products and electronic delivery devices on campus or at college/district sponsored events. 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.

For more information, please visit the Drug Abuse and Alcohol Prevention Program (DAAPP) webpage at: <http://www.sdccd.edu/daapp>.

## **Smoking Regulation**

### **(Board of Trustees Policy – BP 0505)**

#### **MESA COLLEGE IS A SMOKE AND TOBACCO-FREE CAMPUS**

All campuses and facilities of the San Diego Community College District, City College, Mesa College, Miramar College, and Continuing Education operate in compliance with the provisions of Government Code 7597 and San Diego Municipal Code section 43.1003(a) regulating smoking in a public place or place of employment. In accordance with Board Policy (BP 0505) Smoke and Tobacco Free District Property smoking and the use of any tobacco product are prohibited on all properties owned or controlled by the District.

Mesa College is committed to creating a clean, healthy working and learning environment for students, faculty, staff and visitors. All students, employees and visitors on the Mesa College property are subject to BP 0505 regulations, which will be strictly enforced at all times. Student Health

Services at Mesa College offers Cessation Program Referrals to educate the college community about the risks of tobacco and the availability of Smoking Control Programs. Visit or call the Student Health Services on campus for additional information at 619-388-2774.

Additional information is available in the Campus Police Office. For complete SDCCD Policy 0505 and Procedure 0505.2 information, please visit: <http://www.sdccd.edu/public/district/policies/>.

## Crime Awareness and Campus Security

Q-100

619-388-2749

### Jeanne Clery Act Crime Statistics

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act is the landmark federal law, originally known as the Campus Security Act, which requires colleges and universities across the United States to disclose information about crime on and around their campuses.

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 any time you may view a full copy by accessing the following website: <https://www.sdccd.edu/about/departments-and-offices/police-department/clery-act.aspx>.

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.

### Student Rights, Responsibilities, Campus Safety and Administrative Due Process

#### (Board of Trustees Policy – BP 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 *j*. Note that grades are not grievable under this policy. Refer to the Grade Challenge section, page 69, of this catalog.

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

## 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 District Policy, 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.

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

# Student Records, Release, Correction and Challenge

## (Administrative Procedure – AP 3001.1)

San Diego Community College District strictly adheres to the Family Education Rights and Privacy (FERPA). This procedure specifies limitations on Federal and State law, and ensures that appropriate record maintenance and destruction systems are in place.

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, except under very specific conditions:

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

## Complaint Processes

San Diego City, Mesa, and Miramar Colleges are committed to an educational environment that is free from interference and disruption, and that fosters equity and mutual respect.

Students may file a complaint when they believe that a College faculty or staff member has violated the following Board Policies and Administrative Procedures:

1. Student Rights, Responsibilities, Campus Safety and Administrative Due Process: Policy 3100
2. Student Grievance: Procedure 3100.1
3. Student Discipline: Procedure 3100.2
4. Honest Academic Conduct: Procedure 3100.3

5. Academic Accommodations and Disability Discrimination for Students with Disabilities: Procedure 3105.1
6. Prohibition of Harassment: Policy 3430
7. Nondiscrimination: Policy 3410
8. Fraud/Whistle Blower: Policy 6125
9. Grade Challenge: Procedure 3001.2

Board Policies and Administrative Procedures are available to Individuals online at:  
<http://www.sdccd.edu/public/district/policies/>.

Most complaints, grievances or disciplinary matters should be resolved at the campus level. Individuals are strongly encouraged to make every attempt to resolve matters through the appropriate administrative processes.

More information on the complaint processes can be found online at: <https://www.sdccd.edu/students/complaint-process/index.aspx>.

## Academic Complaint

An academic complaint may be filed with the department chair or instructional dean when a student feels that a faculty member has violated state law, federal law, or College policies and procedures relative to grading or other academic matters\*. Students may directly contact the department chair or instructional dean or submit their complaint online at: <https://www.sdccd.edu/students/complaint-process/index.aspx>.

**\*Please note:** All grades awarded by the instructor of record shall be final. The California Code of Regulations, Title 5 §55025, states “the determination of the student’s grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetency.”

## Academic Accommodation Due to Disability Complaint (Section 504/ADA)

Students who have a complaint regarding access to, or quality of, their academic accommodations may contact the DSPS counselor. Students may submit a complaint online at <https://www.sdccd.edu/students/complaint-process/index.aspx> or contact the campus 504 Officer.

Students with disabilities who want to file a formal complaint under Section 504 of the

1973 Federal Rehabilitation Act and Americans with Disabilities Act (ADA) may do so online at <https://www.sdccd.edu/students/complaint-process/index.aspx> or contact the campus 504 Officer:

<b>Campus 504 Officer</b>
<b>San Diego City College (Room P-201)</b>
Randy Barnes
rbarnes@sdccd.edu (619) 388-3923
<b>San Diego Mesa College (LRC – Room 464)</b>
Claudia Perkins
cperkins@sdccd.edu (619) 388-2699 Mailbox, Room G-248
<b>San Diego Miramar College (Room N-203)</b>
Adrian Gonzales
agonzales@sdccd.edu (619) 388-7810
<b>San Diego Continuing Education (Room 104, Educational Cultural Complex (ECC))</b>
Esther Matthew
ematthew@sdccd.edu (619) 388-1290

## General Complaint

A general student complaint may be filed by a student who feels an action of a College staff member, office, or group violates existing College rules, policy, or procedures or other local, state, and federal laws. A complaint of gender discrimination or sexual assault or harassment is not included in this category; please see Title IX complaint below.

The complaint procedures are formalized procedures to ensure timely resolution at the lowest possible level. The first step is the informal resolution stage, which involves the student who has a complaint and the faculty/staff member or specific group with whom the student has a complaint. The student must notify the faculty/staff person or representative of a group that he or she wishes to make an appointment for an informal meeting to review an action. In the absence of the instructor or staff person and after a good faith effort to make contact, the student may directly contact the instructional dean or appropriate administrator or submit their complaint online at: <https://www.sdccd.edu/students/complaint-process/index.aspx>.

## Unlawful Harassment or Discrimination Complaint not Based on Sex or Gender

San Diego City, Mesa and Miramar Colleges are committed to providing an academic environment free of unlawful harassment and unlawful discrimination. Board Policy 3100 defines verbal, physical, visual or written, environmental and harassment and other forms of harassment on campus, and sets forth a procedure for the investigation and resolution of complaints of harassment by or against any staff, or faculty member, or student within the District.

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

These procedures are used when a complaint concerns matters of discrimination or failure to comply with College policy or procedures or federal and/or state regulations including the Civil Rights Act; Executive Orders 11246 and 11375; the Vietnam Era Veterans Readjustment Act of 1974; the Age Discrimination and Employment Act of 1967; Section 504 of the 1973 Federal Rehabilitation Act and Americans with Disabilities Act (ADA); and the nondiscrimination laws of the State of California.

Students who wish to file a complaint may do so online at: <https://www.sdccd.edu/students/complaint-process/index.aspx> or contact your college Site Compliance Officer (SCO):

<b>Campus Site Compliance Officer</b>
<b>San Diego City College (Room A-366)</b>
Edwin Hiel
ehiel@sdccd.edu (619) 388-3036
<b>San Diego Mesa College (LRC – Room 464)</b>
Claudia Perkins
cperkins@sdccd.edu (619) 388-2699 Mailbox, Room G-248
<b>San Diego Miramar College (Room M-211E)</b>
Francois Bereaud
fbereaud@sdccd.edu (619) 388-7503

**San Diego Continuing Education  
(Room 115F, North City Campus)**

Lynda Reeves

lreeves@sdccd.edu  
(619) 388-1827

Students wishing to pursue a civil rights complaint beyond the college/district level should direct their inquiries to the Office of Civil Rights, United States Department of Education, 50 Beale Street, Suite 7200, San Francisco, CA 94105-1813.

**Other Complaint Process**

If your complaint is associated with the institution's compliance with academic program quality and accrediting standards, you may contact the Accrediting Commission for Community and Junior Colleges (ACCJC) at <http://www.accjc.org/complaint-process> ACCJC is the agency that accredits the academic programs of the California Community Colleges.

If your complaint does not concern the California Community College's compliance with academic program quality and accrediting standards, you may contact the California Community College Chancellor's Office by completing the web form found at: <http://californiacommunitycolleges.cccco.edu/ComplaintsForm.aspx>.



# Academic Requirements



# The Baccalaureate Degree

## Health Information Management

At the March 16, 2015, California Community College Board of Governors meeting, the members voted unanimously to approve San Diego Mesa College's Health Information Management (HIM) Bachelor of Science degree as one of the fifteen community college pilot programs to be offered in the state. The HIM program received Accrediting Commission for Community and Junior Colleges (ACCJC), Western Association of Schools and Colleges (WASC) approval.

The HIM program has the following requirements:

- A combination of lower division and upper division coursework totaling a minimum of 132 semester units that are applicable to a baccalaureate degree as defined within these guidelines
- Completion of the CSU General Education Breadth listed on page 137 or Intersegmental General Education Transfer Curriculum pattern listed on page 129.
- Completion of a minimum of 54 semester units of upper division courses, including a minimum of 10 semester units of upper division general education.
- An identified major that includes a minimum of 30 semester units of lower division courses and 44 semester units of upper division courses.
- A minimum of 12 degree applicable units must be completed in residence at the college granting the degree.

### Upper Division General Education\*

ENGL 401 Advanced Writing for Healthcare Professionals

CISC 401 Database Management and Design for Healthcare Professionals

PSYC 401 Organizational Psychology for the Healthcare Professional

\*Limitation on Enrollment: Must be admitted to the Health Information Management program.

# The Associate Degree

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

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

## Proactive Award Degree

Students who have an official education plan on file and meet degree requirements may be awarded an associate degree.

## All Degrees Have the Following Requirements in Common

### Minimum Units in Residence

A minimum of 12 degree applicable 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.

Courses completed credit by exam do not qualify for the 12 unit in residence requirement.

### 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.

### 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) for California State University (CSU)

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.ADegreeWithAGuarantee.com](http://www.ADegreeWithAGuarantee.com) for more information.

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**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. Maximum 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. A "P" (pass) grade meets this requirement.
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE; see page 138 for more information); OR the Intersegmental General Education Transfer Curriculum pattern (IGETC; see page 129 for more information).

### Note:

#### IGETC for STEM

Students pursuing an Associate Degree for Transfer in Biology are eligible to take IGETC for STEM, deferring two lower-division GE courses until after transfer. IGETC for STEM is applicable only to Biology majors in which the Transfer Model Curriculum explicitly indicates the availability of the option.

Students using IGETC for STEM may delay until after transfer:

- a. One general education course in Area 3 (Arts and Humanities); and
- b. One general education course in Area 4 (Social and Behavioral Sciences).

It is strongly recommended that students consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.

#### CSUGE for STEM

Students pursuing an Associate Degree for Transfer in Biology are eligible to take CSUGE-Breadth for STEM, deferring two lower-division GE courses until after transfer. CSUGE-Breadth for STEM is applicable only to Biology majors in which the Transfer Model Curriculum explicitly indicates the availability of the option.

Students using CSUGE-Breadth for STEM must complete:

- a. All courses in Areas A, B, and E of the traditional GE Breadth curriculum; and
- b. One course in Area C1 Arts and one course in Area C2 Humanities; and
- c. Two courses in Area D from two different disciplines.

It is strongly recommended that students consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.

# Associate of Arts and Associate of Science Degree Requirements

## Minimum 60 Units Required

All degrees require a minimum of 60 degree applicable semester units. See course descriptions.

## 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. A “P” (pass) grade meets this requirement. **Note:** No more than 12 units of a student’s coursework completed in the San Diego Community College District graded on a Pass/No Pass basis will be used to meet Associate Degree requirements.
- 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 108).

## 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 108)
- **Option 2**—CSU General Education Breadth (CSU GE Pattern). (See Mesa College Catalog page 138)
- **Option 3**—Intersegmental General Education Transfer Curriculum (IGETC) pattern. (See Mesa College Catalog page 129)
- **Option 4**—San Diego Community College District General Education Requirements. (See Mesa College Catalog page 113). 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

- **Option 5**—Students who submit an official transcript showing they have earned a baccalaureate degree from a regionally accredited institution will have satisfied the SDCCD associate degree general education and District requirements by having previously completed the baccalaureate degree. Students seeking the Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) degree must complete either the California State University General Education Breadth (CSU-GE) pattern or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

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

“Competency in mathematics” means the ability to analyze and reason quantitatively and solve problems using concepts at the level of

intermediate algebra or higher. Courses that meet the math competency requirement have a substantial component involving mathematical reasoning. Students must complete one course with a grade of “C” or better from the following list:

BANK 103	Introduction to Investments (MMR)	POLI 201	Elementary Statistics for Political Science (C,M)
BIOL 200	Biological Statistics (M)	PSYC 258	Behavioral Science Statistics (C,M,MMR)
BUSE 101	Business Mathematics (C,M,MMR)	MATH 57A	Beginning Algebra and Practical Descriptive Statistics (C,MMR)
BUSE 115	Statistics for Business (C,M,MMR)	MATH 59	Explorations in Foundations of Math (C)
CHEM 251	Quantitative Analytical Chemistry (C,M,MMR)	MATH 92	Applied Beginning and Intermediate Algebra (C,M,MMR)
CISC 187	Data Structures in C++ (C,M,MMR)	MATH 96	Intermediate Algebra and Geometry (C,M,MMR)
CISC 190	Java Programming (C,M,MMR)	MATH 98	Technical Intermediate Algebra and Geometry (C)
CISC 192	C/C++ Programming (C,M,MMR)	MATH 104	Trigonometry (C,M,MMR)
CISC 201	Advanced C++ Programming (C,M)	MATH 107	Introduction to Scientific Programming (C)
CISC 205	Object Oriented Programming using C++ (C)	MATH 109	Explorations in Mathematical Analysis (C)
CISC 246	Discrete Mathematics for Computer Science (M,MMR)	MATH 115	Gateway to Experimental Statistics (C,MMR)
ECON 120	Principles of Macroeconomics (C,M,MMR)	MATH 116	College and Matrix Algebra (C,M,MMR)
ECON 121	Principles of Microeconomics (C,M,MMR)	MATH 118	Math for the Liberal Arts Student (C,M)
ENGE 151	Engineering Drawing (C,M)	MATH 119	Elementary Statistics (C,M,MMR)
ENGE 200	Statics (C,M)	MATH 121	Basic Techniques of Applied Calculus I (C,M,MMR)
ENGE 240	Digital Systems (C)	MATH 122	Basic Techniques of Applied Calculus II (C,M,MMR)
ENGE 250	Dynamics (C,M)	MATH 141	Precalculus (C,M,MMR)
ENGE 260	Electric Circuits (C,M)	MATH 150	Calculus with Analytic Geometry I (C,M,MMR)
HEIT 256	Statistics for Healthcare (M)	MATH 151	Calculus with Analytic Geometry II (C,M,MMR)
MFET 210	Statistical Process Control (C)	MATH 210A	Concepts of Elementary School Mathematics I (C,M)
MFET 220	Programmable Logic Controllers (C)	MATH 210B	Concepts of Elementary School Mathematics II (C,M)
PHIL 101	Symbolic Logic (C,M,MMR)	MATH 215	Introduction to Teaching Mathematics (M)
PHYS 125	General Physics (C,M,MMR)	MATH 245	Discrete Mathematics (C,M,MMR)
PHYS 126	General Physics II (C,M,MMR)	MATH 252	Calculus with Analytic Geometry III (C,M,MMR)
PHYS 180A	General Physics I (C,MMR)	MATH 254	Introduction to Linear Algebra (C,M,MMR)
PHYS 180B	General Physics II (C,MMR)	MATH 255	Differential Equations (C,M,MMR)
PHYS 195	Mechanics (C,M,MMR)		
PHYS 196	Electricity and Magnetism (C,M,MMR)		
PHYS 197	Waves, Optics and Modern Physics (C,M,MMR)		

### 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 U.S., Black Perspectives (C, M, MMR)	✓	✓	
^BLAS 140B History of the U.S., 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, MMR)	✓	✓	
^HIST 115B History of the Americas II (C, M, MMR)	✓		✓
^HIST 123 U.S. History from the Asian Pacific American Perspective (C, M)	✓		✓
HIST 141 Women in United States History I (M, MMR)	✓	✓	
HIST 142 Women in United States History II (M, MMR)	✓		✓
^HIST 150 Native Americans in United States History I (M)	✓	✓	
^HIST 151 Native Americans in United States History II (M)	✓		✓
HIST 175 California History (M)			✓
POLI 102 Introduction to American Government (C, M, MMR)		✓	✓
POLI 121 American Political Development (C,M,MMR)	✓	✓	
<b>NOTES:</b>			
<ul style="list-style-type: none"> <li>• <b>Courses designated with a caret (^) may also be used to fulfill the District Multicultural studies requirement.</b></li> <li>• <b>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.</b></li> <li>• <b>Completion of the Advanced Placement examination in U.S. Government &amp; Politics with a score of 3 or higher will satisfy the requirement for Area US-2.</b></li> <li>• <b>Students who have completed the American Institutions requirement except for the California government portion must complete one course approved in Area US-3.</b></li> </ul>			

#### 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, Physical Therapist Assistant, or are graduates of a certified paramedic training program. 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 Joint Services Transcript (JST) or CCAF Transcript covering all periods of military service must be on file in the Records Office.**

#### 5. Exercise Science Activity

Students must complete two activity courses. Exercise Science courses numbered below PHYE 240 or below EXSC 229 are acceptable. Dance courses are also acceptable, except for DANC 181, 183 and 253. Administration of Justice 127A, 127B, 127C, 127D, 128A, 128B, 128C, 128D, 323, 381 and 382 are also acceptable. Fire Protection Technology 100D, 150A, 150B, 160, 360A, 380W, 381F are also acceptable. Students with physical conditions which prevent participation in regular exercise science activity classes must file a physician's statement with the College Evaluations Office. Adapted Exercise Science classes are available. A Physician's medical release form is required.

**Note: This requirement is waived for students who possess an accredited Fire Fighter I certification or are graduates of a POST Commission certified regional law enforcement academy. U.S. Veterans and active duty U.S. military personnel may be granted two units of college credit to fulfill the Exercise Science Activity requirement if service has been continuous for at least six months. Copies of form DD-214 or DD-295 or Joint Services Transcript (JST) 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 150	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 111	Cultural Influences on African Art (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, Film and the Media (C,M)
^	BLAS 155	African American Literature (C,M)
^	CHIC 110A	Introduction to Chicana and 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,M)
^ ENGL 202	Introduction to Linguistics (C,M)
^ ENGL 230	Asian American Literature (M,MMR)
^ FASH 122	Ethnic Costume (M)
^ FILI 100	Filipino American Experience (MMR)
^ GEND 101	Introduction to Gender Studies (C)
^ GEOG 102	Cultural Geography (C,M,MMR)
^ HIST 115A	History of the Americas I (C,M,MMR)
^ HIST 115B	History of the Americas II (C,M,MMR)
^ 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 I (M)
^ HIST 151	Native Americans in United States History II (M)
^ INTE 125	History of Furniture and Interiors (M)
^ MUSI 109	World Music (C,M,MMR)
^ MUSI 217A	Gospel Choir I (MMR)
^ MUSI 217B	Gospel Choir II (MMR)
^ MUSI 217C	Gospel Choir III (MMR)
^ MUSI 217D	Gospel Choir IV (MMR)
^ NUTR 153	Cultural Foods (M)
^ PHIL 125	Philosophy of Women (C,M)
^ POLI 103	Comparative Politics (C,M,MMR)
^ POLI 121	American Political Development (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,M)
^ SOCO 223	Globalization and Social Change (C,M,MMR)

## General Education 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 55063:

- 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.
- 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.
- 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.

**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.

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 a caret fulfill District multicultural studies graduation requirement.
- \* Courses with an asterisk may satisfy more than one area and/or general education requirement but may not be counted more than once for this.

The following information is based on 2020–2021 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 (M)
BUSE 101	Business Mathematics (C,M,MMR)
BUSE 115	Statistics for Business (C,M,MMR)
CISC 150	Introduction to Computer and Information Sciences (C,M)
CISC 181	Principles of Information Systems (C,M,MMR)
CISC 246	Discrete Mathematics for Computer Science (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,MMR)
^ COMS 180	Intercultural Communication (C,M,MMR)
GISG 104	Geographic Information Science and Spatial Reasoning (C,M)
HIST 205	Methodology and Practice in History (M)

MATH 57A	Beginning Algebra and Practical Descriptive Statistics (C,MMR)
MATH 59	Explorations in Foundations of Math (C)
MATH 84	Practical Geometry (M)
MATH 85	Practical Career Mathematics (C,M)
MATH 92	Applied Beginning and Intermediate Algebra (C,M,MMR)
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 109	Explorations in Mathematical Analysis (C)
MATH 115	Gateway to Experimental Statistics (C,MMR)
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 210A	Concepts of Elementary School Mathematics I (C,M)
MATH 210B	Concepts of Elementary School Mathematics II (C,M)
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

AGRI 107	Introduction to Agricultural Plant Science (C)
ANTH 102	Introduction to Biological Anthropology (C,M,MMR)
ANTH 104	Laboratory in Biological Anthropology (C,M,MMR)
BIOL 100	Natural History - Environmental Biology - Lecture/Laboratory (M,MMR)
BIOL 101	Issues in Environmental Science & Sustainability - Lecture/Laboratory (C)
BIOL 107	General Biology - Lecture/Laboratory (C,M,MMR)
BIOL 110	Introduction to Oceanography (C,M)
BIOL 111	Cancer Biology (C)
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 135	Biology of Human Nutrition (C,MMR)
BIOL 160	Elements of Human Anatomy & Physiology - Lecture/Laboratory (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 - Lecture/Laboratory (C,M,MMR)
BIOL 210B	Introduction to the Biological Sciences II - Lecture/Laboratory (C,M,MMR)
BIOL 215	Introduction to Zoology (M)
BIOL 230	Human Anatomy (C,M,MMR)
BIOL 235	Human Physiology (C,M,MMR)
BIOL 250	Introduction to Botany (M)
BIOL 285	Tropical Biology Field Experience (MMR)
MEDA 55	Fundamentals Human Anatomy and Physiology (M)
NUTR 150	Nutrition (C,M,MMR)
NUTR 155	Advanced Nutrition (M,MMR)
PSYC 260	Introduction to Physiological Psychology (C,M,MMR)

## 2. Physical Sciences

AGRI 125	Introduction to Soil Science (C)	GEOL 104	Earth Science (C,M,MMR)
ASTR 101	Descriptive Astronomy (C,M,MMR)	GEOL 111	The Earth Through Time (C,M,MMR)
ASTR 102	Exploring The Solar System and Life Beyond The Earth (C,M,MMR)	GEOL 120	Earth Science Laboratory (C,M)
ASTR 109	Practice in Observing - Laboratory (C,M,MMR)	GEOL 130	Field Geology of San Diego County (C,M,MMR)
ASTR 111	Astronomy Laboratory (C,M,MMR)	MCTR 120B	Basic Physics for Technical Applications II (C)
AVIA 115	Aviation Weather (MMR)	OCEA 101	The Oceans (M,MMR)
CHEM 100	Fundamentals of Chemistry (C,M,MMR)	PHYN 100	Survey of Physical Science - Lecture (C,M,MMR)
CHEM 100L	Fundamentals of Chemistry - Laboratory (C,M,MMR)	PHYN 101	Survey of Physical Science - Laboratory (C,M,MMR)
CHEM 103	General, Organic, and Biological Chemistry (M,MMR)	PHYN 105	Physical Science for Elementary Education (M,MMR)
CHEM 111	Chemistry in Society (C,M,MMR)	PHYN 114	Weather and Climate (C,M,MMR)
CHEM 111L	Chemistry and Society Laboratory (C,M,MMR)	PHYS 100	Introductory Physics Lecture/ Laboratory (C,M,MMR)
CHEM 130	Introduction to Organic & Biological Chemistry (C,M,MMR)	PHYS 125	General Physics (C,M,MMR)
CHEM 130L	Introduction to Organic & Biological Chemistry - Laboratory (C,M,MMR)	PHYS 126	General Physics II (C,M,MMR)
CHEM 152	Introduction to General Chemistry (C,M,MMR)	PHYS 180A	General Physics I (C,M,MMR)
CHEM 152L	Introduction to General Chemistry Laboratory (C,M,MMR)	PHYS 180B	General Physics II (C,M,MMR)
CHEM 160	Introductory Biochemistry (M,MMR)	PHYS 181A	General Physics Lab I (C,M,MMR)
CHEM 200	General Chemistry I - Lecture (C,M,MMR)	PHYS 181B	General Physics Lab II (C,M,MMR)
CHEM 200L	General Chemistry I - Laboratory (C,M,MMR)	PHYS 195	Mechanics (C,M,MMR)
CHEM 201	General Chemistry II - Lecture (C,M,MMR)	PHYS 196	Electricity and Magnetism (C,M,MMR)
CHEM 201L	General Chemistry II - Laboratory (C,M,MMR)	PHYS 197	Waves, Optics and Modern Physics (C,M,MMR)
CHEM 231	Organic Chemistry I - Lecture (C,M,MMR)		
CHEM 231L	Organic Chemistry I - Laboratory (C,M,MMR)		
CHEM 233	Organic Chemistry II - Lecture (C,M,MMR)		
CHEM 233L	Organic Chemistry II - Laboratory (C,M,MMR)		
CHEM 251	Quantitative Analytical Chemistry (C,M,MMR)		
GEOG 101	Physical Geography (C,M,MMR)		
GEOG 101L	Physical Geography - Laboratory (C,M,MMR)		
GEOL 100	Physical Geology (C,M,MMR)		
GEOL 101	Physical Geology - Laboratory (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,MMR)
AMSL 116	American Sign Language Level II (C,M,MMR)
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)
ARAB 201A	Third Course in Arabic (C)
ARCH 126	History of Ancient World Architecture (M)
ARCH 127	History of World Architecture: Renaissance Through Contemporary (M)

ARTF 100	Art Orientation (C,M,MMR)	DRAM 107	Study of Filmed Plays (C)
ARTF 106	Art of the United States: Colonial to Modern Period (M)	DRAM 108	Playwriting (C)
ARTF 107	Contemporary Art (M,MMR)	^ DRAM 109	Theatre and Social Issues (C,M)
ARTF 108	Women in Art (M)	DRAM 111	Chicana/o Theatre (C)
ARTF 109	Modern Art (C,M,MMR)	DRAM 136	History of Canonized Theatre - Ancient Greece to the Restoration (C,M)
ARTF 110	Art History: Prehistoric to Gothic (C,M,MMR)	DRAM 137	History of Canonized Western Theatre - Restoration to the Present (C,M)
ARTF 111	Art History: Renaissance to Modern (C,M,MMR)	DRAM 150	Cinema as Art and Communication I (M)
^ ARTF 113	Arts of Africa, Oceania, and the Americas (M,MMR)	DRAM 151	Cinema as Art and Communication II (M)
^ ARTF 115	African Art (C,M)	ENGL 207	The Art of the Sentence (M)
^ ARTF 120	Native American Art (M)	ENGL 208	Introduction to Literature (C,M,MMR)
ARTF 125	Art History: Arts of the Asian Continent (C,M,MMR)	ENGL 209	Literary Approaches to Film (C,M,MMR)
ARTF 130	Pre-Columbian Art (M)	ENGL 210	American Literature I (C,M,MMR)
ARTF 188	Women and Gender in Photography (M)	ENGL 211	American Literature II (C,M,MMR)
ARTF 191	Cultural Influences on Photography (M)	ENGL 215	English Literature I: 800–1799 (C,M,MMR)
ARTF 194	Critical Photography (M)	ENGL 216	English Literature II: 1800–Present (C,M,MMR)
ARTG 118	Graphic Design History (C)	ENGL 220	Masterpieces of World Literature I: 1500 BCE–1600 CE (C,M,MMR)
^ BLAS 110	African American Art (C,M)	ENGL 221	Masterpieces of World Literature II: 1600–Present (C,M,MMR)
^ BLAS 111	Cultural Influences on African Art (M)	^ ENGL 230	Asian American Literature (M,MMR)
^ BLAS 120	Black Music (C,M)	ENGL 237	Women in Literature (C,M,MMR)
^ BLAS 150	Black Women in Literature, Film and the Media (C,M)	ENGL 238	Evaluating Children's Literature (C)
^ BLAS 155	African American Literature (C,M)	ENGL 240	Shakespeare (C,M)
CHIC 130	Mexican Literature in Translation (C,M)	FASH 120	Fashion History and Trends (M)
^ CHIC 135	Chicana/o Literature (C,M)	^ FASH 122	Ethnic Costume (M)
CHIC 138	Literature of La Raza in Latin America in Translation (C,M)	FREN 101	First Course in French (C,M)
^ CHIC 190	Chicano Images in Film (C,M)	FREN 102	Second Course in French (C,M)
^ CHIC 210	Chicano Culture (C,M)	FREN 201	Third Course in French (C,M)
CHIC 230	Chicano Art (C,M)	FREN 202	Fourth Course in French (C,M)
CHIN 101	First Course in Mandarin Chinese (M)	GERM 101	First Course in German (C,M)
CHIN 102	Second Course in Mandarin Chinese (M)	GERM 102	Second Course in German (C,M)
CHIN 201	Third Course in Mandarin Chinese (M)	GERM 201	Third Course in German (C,M)
CHIN 202	Fourth Course in Mandarin Chinese (M)	* HIST 100	World History I (C,M,MMR)
DANC 181	History of Dance (C,M)	* HIST 101	World History II (C,M,MMR)
DFLM 101	Introduction to Film (MMR)	* HIST 105	Introduction to Western Civilization I (C,M,MMR)
DFLM 102	The American Cinema (MMR)	* HIST 106	Introduction to Western Civilization II (C,M,MMR)
DRAM 105	Introduction to Dramatic Arts (C,M)		

^*	HIST 120	Introduction to Asian Civilizations (C,M,MMR)	MUSI 119	Music in the Americas, Africa & Europe (M)
^*	HIST 121	Asian Civilizations in Modern Times (C,M,MMR)	MUSI 125	Music, the Arts, and Society (M)
^*	HIST 123	U.S. History from the Asian Pacific American Perspective (C,M)	PHIL 102A	Introduction to Philosophy: Reality and Knowledge (C,M,MMR)
*	HIST 131	Latin America Before Independence (M)	PHIL 102B	Introduction to Philosophy: Values (C,M,MMR)
*	HIST 132	Latin America Since Independence (M)	PHIL 103	Historical Introduction to Philosophy (M)
	HUMA 101	Introduction to the Humanities I (C,M,MMR)	PHIL 104A	History Of Western Philosophy: Ancient to Medieval (C,M,MMR)
	HUMA 102	Introduction to the Humanities II (C,M,MMR)	PHIL 104B	History of Western Philosophy: Modern to Contemporary (C,M)
	HUMA 103	Introduction to the New Testament(C,M)	PHIL 105	Contemporary Philosophy (C,M)
	HUMA 104	Introduction to the Old Testament (M)	PHIL 106	Asian Philosophy (C,M)
	HUMA 106	World Religions (C,M,MMR)	PHIL 107	Reflections on Human Nature (C,M,MMR)
	HUMA 118	Eastern Humanities (M)	* PHIL 108	Perspectives on Human Nature and Society (C,M)
	HUMA 119	Western Humanities (M)	PHIL 110	Philosophy of Religion (M)
	HUMA 201	Mythology (C,M,MMR)	PHIL 111	Philosophy in Literature (C,M)
	HUMA 202	Mythology: Hero's Journey (C)	PHIL 112	Philosophy of Science (M)
	HUMA 205	Exploring Human Values Through Film (M)	^* PHIL 125	Philosophy of Women (C,M)
	HUMA 210	Women in Religion and Myth (M)	PHIL 130	Philosophy of Art and Music (C,M)
^	INTE 125	History of Furniture and Interiors (M)	PHIL 131	Environmental Ethics (C,M)
	ITAL 101	First Course in Italian (C,M)	* PHIL 205	Critical Thinking and Writing in Philosophy (C,M,MMR)
	ITAL 102	Second Course in Italian (C,M)	PHOT 150	History of Photography (C)
	ITAL 201	Third Course in Italian (C,M)	RTVF 160	Introduction to Cinema (C)
	JAPN 101	First Course in Japanese (M)	RTVF 162	Women in Film (C)
	JAPN 102	Second Course in Japanese (M)	RUSS 101	First Course in Russian (C,M)
	JAPN 201	Third Course in Japanese (M)	RUSS 102	Second Course in Russian (C,M)
	JAPN 202	Fourth Course in Japanese (M)	RUSS 201	Third Course in Russian (M)
	LATI 101	First Course in Latin (M)	SPAN 101	First Course in Spanish (C,M,MMR)
	LATI 102	Second Course in Latin (M)	SPAN 102	Second Course in Spanish (C,M,MMR)
	LATI 201	Third Course in Latin (M)	SPAN 201	Third Course in Spanish (C,M,MMR)
	MULT 116	Unity Game Development (M)	SPAN 202	Fourth Course in Spanish (C,M,MMR)
	MUSI 100	Introduction to Music (C,M,MMR)	SPAN 215	Spanish for Spanish Speakers I (C,M)
	MUSI 101	Music History I: Middle Ages to Mid 18th Century (M)	SPAN 216	Spanish for Spanish Speakers II (C,M)
	MUSI 102	Music History II: Mid 18th to Early 20th Century (M)	SPAN 221	Hispanic Literature for Spanish Speakers (M)
	MUSI 103	History of Rock Music (C,M,MMR)	SPAN 222	Hispanic Culture and Civilization for Spanish Speakers (M)
^	MUSI 109	World Music (C,M,MMR)	TAGA 101	First Course in Tagalog (M,MMR)
	MUSI 111	Jazz History (C,M,MMR)	TAGA 102	Second Course in Tagalog (M,MMR)
	MUSI 117	Music in the United States (M)	TAGA 201	Third Course in Tagalog (M,MMR)
	MUSI 118	Asian Music (M)	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 175	Psycho-History of Racism and Sexism (M)
^ ADJU 106	Diversity and Community Relations (MMR)	BUSE 100	Introduction to Business (C,M,MMR)
ADJU 230	Constitutional Law I (MMR)	BUSE 140	Business Law and the Legal Environment (C,M,MMR)
AGRI 100	Principles of Sustainable Agriculture (C)	^ CHIC 110A	Introduction to Chicana and Chicano Studies (C,M)
^ AMSL 150	Introduction to Deaf Culture (M)	^ CHIC 110B	Introduction to Chicano Studies (C,M)
^ ANTH 103	Introduction to Cultural Anthropology (C,M,MMR)	^ CHIC 141A	United States History from a Chicano Perspective (C,M)
ANTH 107	Introduction to Archaeology (C,M,MMR)	^ CHIC 141B	United States History from a Chicano Perspective (C,M)
ANTH 110	Anthropology of Magic, Witchcraft, and Religion (C,M)	CHIC 150	History of Mexico (C,M)
ANTH 117	Anthropology of Gender and Sexuality (M)	CHIC 170	La Chicana (C,M)
ANTH 140	Primatology (C)	CHIC 201	The Indigenous Tradition of Mexico and Ancient Mesoamerica (C,M)
^ ANTH 200	Introduction to North American Indians (M)	CHIL 101	Human Growth and Development (C,M,MMR)
ANTH 205	Introduction to Medical Anthropology (M)	CHIL 103	Lifespan Growth and Development (MMR)
^ ANTH 210	Introduction to California Indians (C,M)	^ CHIL 141	The Child, Family and Community (C,M,MMR)
ANTH 215	Cultures of Latin America (C,M)	COMS 201	Communication and Community (C,M,MMR)
BLAS 100	Introduction to Black Studies (C,M)	CRES 101	Conflict Resolution and Mediation (C)
^ BLAS 104	Black Psychology (C,M)	DJRN 100	Mass Media in the Digital Age (C)
^ BLAS 115	Sociology from a Black Perspective (C)	ECON 120	Principles of Macroeconomics (C,M,MMR)
^ BLAS 116	Contemporary Social Problems from a Black Perspective (C,M)	ECON 121	Principles of Microeconomics (C,M,MMR)
^ BLAS 125	Dynamics of the Black Community (M)	ECON 220	Economics of the Environment (C,M)
^ BLAS 130	The Black Family (C,M)	^ ENGL 202	Introduction to Linguistics (C,M)
^ BLAS 135	Introduction to Black Politics (C)	^ FILI 100	Filipino American Experience (MMR)
^ BLAS 140A	History of the U.S., Black Perspectives (C,M,MMR)	GDEV 101	Introduction to Global Development Studies (C)
^ BLAS 140B	History of the U.S., Black Perspectives (C,M,MMR)	^ GEND 101	Introduction to Gender Studies (C)
^ BLAS 145A	Introduction to African History (C,M)	^ GEOG 102	Cultural Geography (C,M,MMR)
^ BLAS 145B	Introduction to African History (C)	GEOG 104	World Regional Geography (C,M,MMR)
BLAS 165	Sexuality and Black Culture (C,M)	GEOG 154	Introduction to Urban Geography (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)		PSYC 101	General Psychology (C,M,MMR)
^	HIST 115A	History of the Americas I (C,M,MMR)		PSYC 111	Psychological /Social Aspects of Aging, Death and Dying (C,M)
^	HIST 115B	History of the Americas II (C,M,MMR)		PSYC 121	Introduction to Child Psychology (M)
^*	HIST 120	Introduction to Asian Civilization (C,M,MMR)		PSYC 123	Adolescent Psychology (C,MMR)
^*	HIST 121	Asian Civilizations in Modern Times (C,M,MMR)		PSYC 133	Psychology of Women (M,MMR)
^*	HIST 123	U.S. History from the Asian Pacific American Perspective (C,M)		PSYC 135	Marriage and Family Relations (C,M,MMR)
^	HIST 130	The Modern Middle East (M)		PSYC 137	Human Sexual Behavior (C,M,MMR)
*	HIST 131	Latin America Before Independence (M)		PSYC 155	Introduction to Personality (C,M,MMR)
*	HIST 132	Latin America Since Independence (M)		PSYC 166	Introduction to Social Psychology (C,M,MMR)
	HIST 141	Women in United States History I (M,MMR)		PSYC 211	Learning (C,M,MMR)
	HIST 142	Women in United States History II (M,MMR)		PSYC 230	Psychology of Lifespan Development (C,M,MMR)
^	HIST 150	Native Americans in United States History I (M)		PSYC 245	Abnormal Psychology (C,M,MMR)
^	HIST 151	Native Americans in United States History II (M)	^	PSYC 283	Introduction to Cognitive Psychology (C,M,MMR)
	HIST 154	Ancient Egypt (M)	^	RTVF 101	Media Law and Ethics (C)
	HIST 175	California History (M)	^	SOCO 101	Principles of Sociology (C,M,MMR)
	HUMS 101	Introduction to Human Aging (C)	^	SOCO 110	Contemporary Social Problems (C,M,MMR)
	JOUR 202	Introduction to Mass Communication (C,M,MMR)	^	SOCO 125	Sociology of the Family (C,M)
^	NUTR 153	Cultural Foods (M)		SOCO 145	Health and Society (C,MMR)
	PADM 200	Introduction to Public Administration (C,MMR)	^	SOCO 150	Sociology of Latinos/Latinas (C,M)
	PEAC 101	Introduction to Peace Studies (C)		SOCO 201	Advanced Principles of Sociology (C,M,MMR)
*	PHIL 108	Perspectives on Human Nature and Society (C,M)	^	SOCO 220	Introduction to Research Methods in Sociology (C,MMR)
	PHIL 109	Issues in Social Philosophy (M)	^	SOCO 223	Globalization and Social Change (C,M,MMR)
^*	PHIL 125	Philosophy of Women (C,M)		SUST 101	Introduction to Sustainability (C,M,MMR)
	PHIL 126	Introduction to Philosophy of Contemporary Gender Issues (C,M)		WMNS 101	Introduction to Gender and Women's Studies (M)
	POLI 101	Introduction to Political Science (C,M,MMR)			
	POLI 102	Introduction to American Government (C,M,MMR)			
^	POLI 103	Comparative Politics (C,M,MMR)			
^	POLI 121	American Political Development (C,M,MMR)			
	POLI 123	Gender and Politics (M)			
	POLI 124	Introduction to Political Theory: Power and Justice (C,M)			
^	POLI 140	Contemporary International Politics (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. A "P" (pass) grade meets this requirement;
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. A "P" (pass) grade meets this requirement.
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 (I4-306) or subject-area department.

## Graduation

### Apply for Graduation

Students who expect to receive an Associate Degree or Certificate of Achievement should Apply for Graduation. The application may be completed online at: <https://myportal.sdccd.edu/>

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### Official college transcripts from all colleges attended must be on file before submitting the application 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 Application for Graduation prior to the beginning of the semester in which they plan to complete the requirements of their certificate program.

[www.sdmesa.edu/evaluations](http://www.sdmesa.edu/evaluations)

### Petition for Exceptions

Petitions for exceptions to graduation requirements, substitutions, or waiver of requirements are filed with the Evaluations Office (I4-306). All petitions are acted upon by the appropriate college committees/offices. Visit [www.sdmesa.edu/evaluations/](http://www.sdmesa.edu/evaluations/) for information.

### 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.

## Associate Degree Initiative

The San Diego Community College district proactively reviews student academic records to determine if program requirements for an associate degree have been met.

Student academic records will be reviewed if the student:

- completed at least 70 degree applicable units,
- submitted all transcripts from other institutions attended, and
- has an education plan on file.

If the degree requirements are met, students will be notified via email and awarded a diploma. Students have until the end of the semester to decline the degree.

All students may participate in the commencement ceremony which occurs annually at the end of the spring semester. Note that students who plan to transfer to a California State University (CSU), may want to consider an *Associate Degree for Transfer* and should consult a counselor or the Transfer Center for options.

## Diplomas

Diplomas are issued only after completion of all graduation requirements has been verified. Diplomas will be issued in the name and to the address 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 (I4-306) on campus.

## 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 for coursework for the degree or certificate.

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 for the degree or certificate 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 of Arts or Associate of 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.
4. Allows the student to improve priority of transfer applications by earning an Associate Degree for Transfer (ADT).

The following requirements are applicable:

1. A student must earn a minimum of 6 mutually exclusive required semester units in the new major or emphasis. A minimum of twelve (12) semester degree-applicable units must be completed in residence at the college granting the degree.
2. A student must fulfill current catalog associate degree requirements.
3. In order to receive an additional college degree, the student must file a Application for Graduation in the Evaluations Office. Counselors will review all previous college work to determine the student's eligibility for a second degree.

**ADT Exemption:** Students who have previously been awarded an Associate Degree, and wish to receive one ADT in the same or similar major, will be exempt from the additional unit requirement of 6 new units.

## Transfer Programs

(See “Transfer Guide” on page 123)

## Gainful Employment and Licensure Eligibility Requirements

Data on Gainful Employment and Licensure Eligibility Requirements are available at <http://occinfo.sdccd.edu/>.

# 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 baccalaureate-degree granting universities. 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 I4-303 or Transfer Center, to develop a Transfer Educational Plan which will identify the courses needed to transfer. The Transfer Center is located in I4-306. 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 major preparation and general education at a community college. Websites [www.californiacolleges.edu](http://www.californiacolleges.edu) and [www2.calstate.edu/apply](http://www2.calstate.edu/apply) and [www.universityofcalifornia.edu](http://www.universityofcalifornia.edu) provide Transfer Planners and additional resources to provide you with pertinent information.

#### 1. Making your decisions

##### Career Exploration

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

##### Major Selection

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;
- 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 CSUGE-B 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 129. The CSUGE-B coursework patterns may be found on page 138.

##### 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 I4-306 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 138),
  - Preparation for Major (details on page 128), 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 U.S., Black Perspectives (C,M,MMR)	✓	✓	
BLAS 140B History of the U.S., 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,MMR)	✓	✓	
HIST 115B History of the Americas II (C,M,MMR)	✓		✓
HIST 123 U.S. History from the Asian Pacific American Perspective (C,M)	✓		✓
HIST 141 Women in United States History I (M,MMR)	✓	✓	
HIST 142 Women in United States History II (M,MMR)	✓		✓
HIST 150 Native Americans in United States History I (M)	✓	✓	
HIST 151 Native Americans in United States History II (M)	✓		✓
HIST 175 California History (M)			✓
POLI 102 Introduction to American Government (C,M,MMR)		✓	✓
POLI 121 American Political Development (C,M,MMR)	✓	✓	
<b>NOTES:</b>			
<ul style="list-style-type: none"> <li>• <b>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.</b></li> <li>• <b>Completion of the Advanced Placement examination in U.S. Government &amp; Politics with a score of 3 or higher will satisfy the requirement for Area US-2.</b></li> <li>• <b>Students who have completed the American Institutions requirement except for the California government portion must complete one course approved in Area US-3.</b></li> </ul>			

## 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 129 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 Exercise Science Activity Courses

UC grants a maximum of four semester units of credit for appropriate Exercise Science 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. Exercise Science 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.

## 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).



# Transfer General Education Options

## University of California and California State University

### Intersegmental General Education Transfer Curriculum (IGETC) (Option 3)

#### About The IGETC Pattern

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.

#### IGETC for STEM

Students pursuing an Associate Degree for Transfer in Biology are eligible to take IGETC for STEM, deferring two lower-division GE courses until after transfer. IGETC for STEM is applicable only to Biology majors in which the Transfer Model Curriculum explicitly indicates the availability of the option.

Students using IGETC for STEM may delay until after transfer:

- a. One general education course in Area 3 (Arts and Humanities); and
- b. One general education course in Area 4 (Social and Behavioral Sciences).

It is strongly recommended that students consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.

#### Additional IGETC Information and Restrictions:

- Each course must have been IGETC approved at the time it was completed. 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. IGETC certification requests will be processed for students who have completed at least one course at a SDCCD college. Certification forms are available at the Counseling or 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. Pass (P) grades are also acceptable. "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 Eleanor Roosevelt and Revelle 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

- () 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 @ symbols indicate CSU-only requirements.

## 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)  
 HIST 205 Methodology and Practice in History (M)  
 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 135 Interpersonal Communication (C,M,MMR)  
 @ COMS 160 Argumentation (C,M,MMR)  
 @ COMS 170 Small Group Communication (C,M,MMR)

## Area 2A—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 (M)  
 BUSE 115 Statistics for Business (C,M,MMR)  
 CISC 246 Discrete Mathematics for Computer Science (M,MMR)  
 MATH 115 Gateway to Experimental Statistics (C,MMR)  
 + 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)  
 POLI 201 Elementary Statistics for Political Science (C,M)  
 + 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 106 Art of the United States: Colonial to Modern Period (M)  
 ARTF 107 Contemporary Art (M,MMR)  
 \* ARTF 108 Women in Art (M)  
 ARTF 109 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 (C,M,MMR)
	ARTF 130	Pre-Columbian Art (M)
*	ARTF 188	Women and Gender in Photography (M)
	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	Cultural Influences on African Art (M)
	BLAS 120	Black Music (C,M)
	CHIC 230	Chicano Art (C,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,M)
	DRAM 111	Chicana/o Theatre (C)
	DRAM 136	History of Canonized Theatre - Ancient Greece to the Restoration (C,M)
	DRAM 137	History of Canonized Western Theatre - Restoration to the Present (C,M)
	DRAM 150	Cinema as Art & Communication I (M)
	DRAM 151	Cinema as Art & Communication II (M)
	FASH 122	Ethnic Costume (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 (C,M,MMR)
	MUSI 109	World Music (C,M,MMR)
	MUSI 111	Jazz History (C,M,MMR)
	MUSI 117	Music in the United States (M)
	MUSI 118	Asian Music (M)
	MUSI 119	Music in the Americas, Africa & Europe (M)
	MUSI 125	Music, the Arts, and Society (M)
	PHOT 150	History of Photography (C)
	RTVF 160	Introduction to Cinema (C)
	RTVF 162	Women in Film (C)

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**3B: Humanities Courses**


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	AMSL 116	American Sign Language Level II (C,M,MMR)
*	AMSL 150	Introduction to Deaf Culture (M)
	AMSL 215	American Sign Language Level III (C,M)
	AMSL 216	American Sign Language Level IV (C,M)
	ARAB 102	Second Course in Arabic (C)
	ARAB 201A	Third Course in Arabic (C)
	ARCH 126	History of Ancient World Architecture (M)
	ARCH 127	History of World Architecture: Renaissance Through Contemporary (M)
*	ARTF 108	Women in Art (M)
*	ARTF 188	Women and Gender in Photography (M)
	ARTF 191	Cultural Influences on Photography (M)
*	BLAS 145A	Introduction to African History (C,M)
*	BLAS 145B	Introduction to African History (C)
	BLAS 150	Black Women in Literature, Film and the Media (C,M)
	BLAS 155	African American Literature (C,M)
	CHIC 130	Mexican Literature in Translation (C,M)
	CHIC 135	Chicana/o Literature (C,M)
	CHIC 138	Literature of La Raza in Latin America in Translation (C,M)
	CHIC 190	Chicano Images in Film (C,M)
*	CHIC 210	Chicano Culture (C,M)
	CHIN 102	Second Course in Mandarin Chinese (M)
	CHIN 201	Third Course Mandarin Chinese (M)
	CHIN 202	Fourth Course in Mandarin Chinese (M)
	ENGL 208	Introduction to Literature (C,M,MMR)
	ENGL 209	Literary Approaches to Film (C,M,MMR)
	ENGL 210	American Literature I (C,M,MMR)
	ENGL 211	American Literature II (C,M,MMR)
	ENGL 215	English Literature I: 800–1799 (C,M,MMR)
	ENGL 216	English Literature II: 1800–Present (C,M,MMR)
	ENGL 220	Masterpieces of World Literature I: 1500 BCE–1600 CE (C,M,MMR)
	ENGL 221	Masterpieces of World Literature II: 1600–Present (C,M,MMR)
	ENGL 230	Asian American Literature (M,MMR)
	ENGL 237	Women in Literature (C,M,MMR)
	ENGL 240	Shakespeare (C,M)
	FREN 102	Second Course in French (C,M)

FREN 201	Third Course in French (C,M)	PHIL 106	Asian Philosophy (C,M)
FREN 202	Fourth Course in French (C,M)	PHIL 107	Reflections on Human Nature (C,M,MMR)
GERM 102	Second Course in German (C,M)	PHIL 108	Perspectives on Human Nature & Society (C,M)
GERM 201	Third Course in German (C,M)	PHIL 110	Philosophy of Religion (M)
* HIST 100	World History I (C,M,MMR)	PHIL 111	Philosophy in Literature (C,M)
* HIST 101	World History II (C,M,MMR)	PHIL 112	Philosophy of Science (M)
* HIST 105	Introduction to Western Civilization I (C,M,MMR)	PHIL 125	Philosophy of Women (C,M)
* HIST 106	Introduction to Western Civilization II (C,M,MMR)	* PHIL 126	Introduction to Philosophy of Contemporary Gender Issues (C,M)
* HIST 120	Introduction to Asian Civilizations (C,M,MMR)	PHIL 130	Philosophy of Art and Music (C,M)
* HIST 121	Asian Civilizations in Modern Times (C,M,MMR)	PHIL 131	Environmental Ethics (C,M)
* HIST 131	Latin America Before Independence (M)	RUSS 102	Second Course in Russian (C,M)
* HIST 132	Latin America Since Independence (M)	RUSS 201	Third Course in Russian (M)
HUMA 101	Introduction to the Humanities I (C,M,MMR)	+ SPAN 102	Second Course in Spanish (C,M,MMR)
HUMA 102	Introduction to the Humanities II (C,M,MMR)	+ SPAN 201	Third Course in Spanish (C,M,MMR)
HUMA 103	Introduction to the New Testament (C,M)	SPAN 202	Fourth Course in Spanish (C,M,MMR)
HUMA 104	Introduction to the Old Testament (M)	SPAN 215	Spanish for Spanish Speakers I (C,M)
HUMA 106	World Religions (C,M,MMR)	SPAN 216	Spanish for Spanish Speakers II (C,M)
HUMA 118	Eastern Humanities (M)	SPAN 221	Hispanic Literature for Spanish Speakers (M)
HUMA 119	Western Humanities (M)	SPAN 222	Hispanic Culture and Civilization for Spanish Speakers (M)
HUMA 201	Mythology (C,M,MMR)	TAGA 102	Second Course in Tagalog (M,MMR)
HUMA 205	Exploring Human Values through Film (M)	TAGA 201	Third Course in Tagalog (M,MMR)
HUMA 210	Women in Religion and Myth (M)	VIET 102	Second Course in Vietnamese (M)
ITAL 102	Second Course in Italian (C,M)	VIET 201	Third Course in Vietnamese (M)
ITAL 201	Third Course in Italian (C,M)		
JAPN 102	Second Course in Japanese (M)		
JAPN 201	Third Course in Japanese (M)		
JAPN 202	Fourth Course in Japanese (M)		
LATI 102	Second Course in Latin (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: Ancient to Medieval (C,M,MMR)		
PHIL 104B	History of Western Philosophy: Modern to Contemporary (C,M)		
PHIL 105	Contemporary Philosophy (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.

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### 4: Social and Behavioral Sciences

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ADJU 101	Introduction to Administration of Justice (C,MMR)
ADJU 230	Constitutional Law I (MMR)
AGRI 100	Principles of Sustainable Agriculture (C)
* AMSL 150	Introduction to Deaf Culture (M)
ANTH 103	Introduction to Cultural Anthropology (C,M,MMR)
ANTH 106	World Prehistory (C,M)
ANTH 107	Introduction to Archaeology (C,M,MMR)

ANTH 110	Anthropology of Magic, Witchcraft, and Religion (C,M)	ECON 120	Principles of Macroeconomics (C,M,MMR)
ANTH 117	Anthropology of Gender and Sexuality (M)	ECON 121	Principles of Microeconomics (C,M,MMR)
ANTH 140	Primatology (C)	ECON 220	Economics of the Environment (C,M)
ANTH 200	Introduction to North American Indians (M)	ENGL 202	Introduction to Linguistics (C,M)
ANTH 210	Introduction to California Indians (C,M)	FILI 100	Filipino American Experience (MMR)
ANTH 215	Cultures of Latin America (C,M)	GDEV 101	Introduction to Global Development Studies (C)
* ARTF 108	Women in Art (M)	GEND 101	Introduction to Gender Studies (C)
BLAS 100	Introduction to Black Studies (C,M)	GEOG 102	Cultural Geography (C,M,MMR)
+ BLAS 104	Black Psychology (C,M)	GEOG 104	World Regional Geography (C,M,MMR)
+ BLAS 115	Sociology from a Black Perspective (C)	GEOG 154	Introduction to Urban Geography (C,M)
BLAS 116	Contemporary Social Problems From a Black Perspective (C,M)	* HIST 100	World History I (C,M,MMR)
BLAS 125	Dynamics of the Black Community (M)	* HIST 101	World History II (C,M,MMR)
BLAS 130	The Black Family (C,M)	* HIST 105	Introduction to Western Civilization I (C,M,MMR)
BLAS 135	Introduction to Black Politics (C)	* HIST 106	Introduction to Western Civilization II (C,M,MMR)
+ BLAS 140A	History of the U.S., Black Perspectives (C,M,MMR)	+ HIST 109	History of the United States I (C,M,MMR)
+ BLAS 140B	History of the U.S., Black Perspectives (C,M,MMR)	+ HIST 110	History of the United States II (C,M,MMR)
* BLAS 145A	Introduction to African History (C,M)	HIST 115A	History of the Americas I (C,M,MMR)
* BLAS 145B	Introduction to African History (C)	HIST 115B	History of the Americas II (C,M,MMR)
BLAS 175	Psycho-History of Racism and Sexism (M)	* HIST 120	Introduction to Asian Civilizations (C,M,MMR)
CHIC 110A	Introduction to Chicana and Chicano Studies (C,M)	* HIST 121	Asian Civilizations in Modern Times (C,M,MMR)
CHIC 110B	Introduction to Chicano Studies (C,M)	HIST 123	U.S. History from the Asian Pacific American Perspective (C,M)
+ CHIC 141A	United States History From a Chicano Perspective (C,M)	HIST 130	The Modern Middle East (M)
+ CHIC 141B	United States History From a Chicano Perspective (C,M)	* HIST 131	Latin America Before Independence (M)
CHIC 150	History of Mexico (C,M)	* HIST 132	Latin America Since Independence (M)
CHIC 170	La Chicana (C,M)	+ HIST 141	Women in United States History I (M,MMR)
CHIC 201	The Indigenous Tradition of Mexico and Ancient Mesoamerica (C,M)	+ HIST 142	Women in United States History II (M,MMR)
* CHIC 210	Chicano Culture (C,M)	+ HIST 150	Native Americans in United States History I (M)
+ CHIL 101	Human Growth and Development (C,M,MMR)	+ HIST 151	Native Americans in United States History II (M)
+ CHIL 103	Lifespan Growth and Development (MMR)	HIST 154	Ancient Egypt (M)
* COMS 135	Interpersonal Communication (C,M,MMR)	HIST 175	California History (M)
COMS 201	Communication and Community (C,M,MMR)	JOUR 202	Introduction to Mass Communication (C,M,MMR)
CRES 101	Conflict Resolution and Mediation (C)	LABR 100	American Labor Movement (C)
DJRN 100	Mass Media in the Digital Age (C)	NUTR 153	Cultural Foods (M,MMR)
		PADM 200	Introduction to Public Administration (C,MMR)

PEAC 101	Introduction to Peace Studies (C)
PHIL 109	Issues in Social Philosophy (M)
* PHIL 126	Introduction to Philosophy of Contemporary Gender Issues (C,M)
POLI 101	Introduction to Political Science (C,M,MMR)
POLI 102	Introduction to American Government (C,M,MMR)
POLI 103	Comparative Politics (C,M,MMR)
POLI 121	American Political Development (C,M,MMR)
POLI 123	Gender and Politics (M)
POLI 124	Introduction to Political Theory: Power and Justice (C,M)
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)
+ PSYC 123	Adolescent Psychology (C,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)
PSYC 283	Introduction to Cognitive Psychology (C,M,MMR)
RTVF 101	Media Law and Ethics (C)
+ 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 145	Health and Society (C,MMR)
SOCO 150	Sociology of Latinos/Latinas (C,M)
SOCO 201	Advanced Principles of Sociology (C,M,MMR)
SOCO 220	Introduction to Research Methods in Sociology (C,MMR)
SOCO 223	Globalization and Social Change (C,M,MMR)
SPAN 222	Hispanic Culture and Civilization for Spanish Speakers (M)

SUST 101	Introduction to Sustainability (C,M,MMR)
WNNS 101	Introduction to Gender and Women's Studies (M)

## 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)
- One of the courses selected to fulfill the requirement for 5A or 5B must include a laboratory component or a separate course must be taken from 5C. If a separate laboratory course is taken from 5C, it must match one of the two lecture courses taken from 5A or 5B.

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### 5A: Physical Science Courses

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<u>AGRI 125</u>	Introduction to Soil Science (C)
ASTR 101	Descriptive Astronomy (C,M,MMR)
ASTR 102	Exploring The Solar System and Life Beyond The Earth (C,M,MMR)
AVIA 115	Aviation Weather (MMR)
+ CHEM 100	Fundamentals of Chemistry (C,M,MMR)
<u>CHEM 103</u>	General, Organic, and Biological Chemistry (M,MMR)
CHEM 111	Chemistry in Society (C,M,MMR)
+ CHEM 130	Introduction to Organic & Biological Chemistry (C,M,MMR)
+ CHEM 152	Introduction to General Chemistry (C,M,MMR)
CHEM 160	Introductory Biochemistry (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)
<u>CHEM 251</u>	Quantitative Analytical Chemistry (C,M,MMR)

GEOG 101	Physical Geography (C,M,MMR)
GEOL 100	Physical Geology (C,M,MMR)
GEOL 104	Earth Science (C,M,MMR)
<u>GEOL 111</u>	The Earth Through Time (C,M,MMR)
<u>GEOL 130</u>	Field Geology of San Diego County (C,M,MMR)
OCEA 101	The Oceans (M,MMR)
+ PHYN 100	Survey of Physical Science (C,M,MMR)
PHYN 105	Physical Science for Elementary Education (M)
PHYN 114	Weather and Climate (C,M,MMR)
+ <u>PHYS 100</u>	Introductory Physics (C,M,MMR)
+ <u>PHYS 125</u>	General Physics (C,M,MMR)
+ <u>PHYS 126</u>	General Physics II (C,M,MMR)
+ PHYS 180A	General Physics I (C,M,MMR)
+ PHYS 180B	General Physics II (C,M,MMR)
+ <u>PHYS 195</u>	Mechanics (C,M,MMR)
+ <u>PHYS 196</u>	Electricity and Magnetism (C,M,MMR)
+ <u>PHYS 197</u>	Waves, Optics and Modern Physics (C,M,MMR)

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### 5B: Biological Science Courses

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ANTH 102	Introduction to Biological Anthropology (C,M,MMR)
+ <u>BIOL 100</u>	Natural History Environmental Biology (M,MMR)
<u>BIOL 101</u>	Issues in Environmental Science & Sustainability (C)
+ <u>BIOL 107</u>	General Biology - Lecture and Lab (C,M,MMR)
BIOL 110	Introduction to Oceanography (C,M)
<u>BIOL 115</u>	Marine Biology (C,M,MMR)
+ BIOL 120	The Environment of Man (M)
BIOL 130	Human Heredity (C,M,MMR)
<u>BIOL 131</u>	Introduction to Biotechnology (MMR)
+ BIOL 180	Plants and People (C,M,MMR)
<u>BIOL 205</u>	General Microbiology (C,M,MMR)
<u>BIOL 210A</u>	Introduction to the Biological Sciences I (C,M,MMR)
<u>BIOL 210B</u>	Introduction to the Biological Sciences II (C,M,MMR)
+ <u>BIOL 215</u>	Introduction to Zoology (M)
<u>BIOL 230</u>	Human Anatomy (C,M,MMR)
<u>BIOL 235</u>	Human Physiology (C,M,MMR)
+ <u>BIOL 250</u>	Introduction to Botany (M)

PSYC 260	Introduction to Physiological Psychology (C,M,MMR)
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### 5C: Science Laboratory

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ANTH 104	Laboratory in Biological Anthropology (C,M,MMR)
+ ASTR 109	Practice in Observing Lab (C,M,MMR)
+ ASTR 111	Astronomy Lab (C,M,MMR)
+ CHEM 100L	Fundamentals of Chemistry Lab (C,M,MMR)
CHEM 111L	Chemistry in Society Laboratory (C,M,MMR)
+ CHEM 130L	Introduction to Organic & Biological Chemistry Lab (C,M,MMR)
+ CHEM 152L	Introduction to General Chemistry Lab (C,M,MMR)
CHEM 200L	General Chemistry I - Lab (C,M,MMR)
CHEM 201L	General Chemistry II - Lab (C,M,MMR)
+ CHEM 231L	Organic Chemistry I - Lab (C,M,MMR)
CHEM 233L	Organic Chemistry II - Lab (C,M,MMR)
GEOG 101L	Physical Geography Lab (C,M,MMR)
GEOL 101	Physical Geology Lab (C,M,MMR)
GEOL 120	Earth Science Laboratory (C,M)
+ PHYN 101	Survey of Physical Science Lab (C,M,MMR)
+ <u>PHYS 100</u>	Introductory Physics (C,M,MMR)
+ PHYS 181A	General Physics Lab I (C,M,MMR)
+ PHYS 181B	General Physics Lab II (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,MMR)
AMSL 116	American Sign Language Level II (C,M,MMR)
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)
ARAB 201A	Third 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)
CHIN 202	Fourth 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 (C,M)
RUSS 201	Third Course in Russian (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)
SPAN 216	Spanish for Spanish Speakers II (C,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)

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
3. Achieve a score of 3, 4 or 5 on a College Board Advanced Placement (AP) Examination in a language other than English.
  4. Achieve a score of 5 or higher on an International Baccalaureate (IB) Higher Level Examination in a language other than English.
  5. 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.
  6. 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.

7. Earn a passing grade on the international A level or O level exam in a language other than English.
8. 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 (CSUGE-B)

### About the CSUGE-Breadth Pattern

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

**It is strongly recommended that students consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.**

### Certification of CSUGE-Breadth 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 CSUGE-B pattern has been completed.

### Additional CSUGE-B Information and Restrictions

- Completion of the CSUGE-B 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 CSUGE-B pattern that are completed in the San Diego Community College District or from other regionally accredited institutions.
- Students pursuing an Associate Degree for Transfer in Biology are eligible to take CSUGE-Breadth for STEM, deferring two lower-division GE courses until after transfer. CSUGE-Breadth for STEM is applicable only to Biology majors in which the Transfer Model Curriculum explicitly indicates the availability of the option. Students using CSUGE-Breadth for STEM must complete:
  - a. All courses in Areas A, B, and E of the traditional GE Breadth curriculum; and
  - b. One course in Area C1 Arts and one course in Area C2 Humanities; and
  - c. Two courses in Area D from two different disciplines.
- Courses completed at a foreign college or university cannot be used to satisfy requirements for certification.
- Catalog rights do not apply to the CSUGE-B pattern.
- Prior to certification, students must complete a minimum of 3 units of general education within the CSUGE-B 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 CSUGE-B 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 CSUGE-Breadth Pattern (Option 2)

The following information is based on the 2020–2021 agreement and is distributed as follows:

- () Colleges in parenthesis indicate where the course is approved for CSUGE-B 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 and CSUGE-Breadth Certification. 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,MMR)

#### 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)
- HIST 205 Methodology and Practice in History (M)
- 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

- AGRI 125 Introduction to Soil Science (C)
- ASTR 101 Descriptive Astronomy (C,M,MMR)
- ASTR 102 Exploring The Solar System and Life Beyond The Earth (C,M,MMR)
- AVIA 115 Aviation Weather (MMR)
- CHEM 100 Fundamentals of Chemistry (C,M,MMR)
- CHEM 103 General, Organic, and Biological Chemistry (M,MMR)
- CHEM 111 Chemistry in Society (C,M,MMR)
- CHEM 130 Introduction to Organic & Biological Chemistry (C,M,MMR)
- CHEM 152 Introduction to General Chemistry (C,M,MMR)
- CHEM 160 Introductory Biochemistry (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)
<u>CHEM 251</u>	Quantitative Analytical Chemistry (C,M,MMR)
GEOG 101	Physical Geography (C,M,MMR)
GEOL 100	Physical Geology (C,M,MMR)
<u>GEOL 111</u>	The Earth Through Time (C,M,MMR)
GEOL 104	Earth Science (C,M,MMR)
<u>GEOL 130</u>	Field Geology of San Diego County (C,M,MMR)
OCEA 101	The Oceans (M,MMR)
PHYN 100	Survey of Physical Science (C,M,MMR)
PHYN 105	Physical Science for Elementary Education (M)
PHYN 114	Weather and Climate (C,M,MMR)
<u>PHYS 100</u>	Introductory Physics (C,M,MMR)
<u>PHYS 125</u>	General Physics (C,M,MMR)
<u>PHYS 126</u>	General Physics II (C,M,MMR)
PHYS 180A	General Physics I (C,M,MMR)
PHYS 180B	General Physics II (C,M,MMR)
PHYS 195	Mechanics (C,M,MMR)
<u>PHYS 196</u>	Electricity and Magnetism (C,M,MMR)
<u>PHYS 197</u>	Waves, Light and Modern Physics (C,M,MMR)

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## B2: Life Science

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AGRI 107	Introduction to Agricultural Plant Science (C)
ANTH 102	Introduction to Biological Anthropology (C,M,MMR)
<u>BIOL 100</u>	Natural History-Environmental Biology (M,MMR)
<u>BIOL 101</u>	Issues in Environmental Science & Sustainability (C)
<u>BIOL 107</u>	General Biology - Lecture and Laboratory (C,M,MMR)
BIOL 110	Introduction to Oceanography (C,M)
BIOL 111	Cancer Biology (C)
<u>BIOL 115</u>	Marine Biology (C,M,MMR)
BIOL 130	Human Heredity (C,M,MMR)
<u>BIOL 131</u>	Introduction to Biotechnology (MMR)
<u>BIOL 160</u>	Elements of Human Anatomy & Physiology (M,MMR)

BIOL 180	Plants and People (C,M,MMR)
<u>BIOL 205</u>	General Microbiology (C,M,MMR)
<u>BIOL 210A</u>	Introduction to the Biological Sciences I (C,M,MMR)
<u>BIOL 210B</u>	Introduction to the Biological Sciences II (C,M,MMR)
<u>BIOL 215</u>	Introduction to Zoology (M)
<u>BIOL 230</u>	Human Anatomy (C,M,MMR)
<u>BIOL 235</u>	Human Physiology (C,M,MMR)
<u>BIOL 250</u>	Introduction to Botany (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 Biological Anthropology (C,M,MMR)
ASTR 109	Practice in Observing (C,M,MMR)
ASTR 111	Astronomy Laboratory (C,M,MMR)
CHEM 100L	Fundamentals of Chemistry Laboratory (C,M,MMR)
CHEM 111L	Chemistry in Society Laboratory (C,M,MMR)
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	Physical Geology Laboratory (C,M,MMR)
GEOL 120	Earth Science Laboratory (C,M)
PHYN 101	Survey of Physical Science Laboratory (C,M,MMR)
<u>PHYS 100</u>	Introductory Physics (MMR)
PHYS 181A	General Physics Lab I (C,M,MMR)
PHYS 181B	General Physics Lab II (C,M,MMR)

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## B4: Mathematics/Quantitative Reasoning

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BIOL 200	Biological Statistics (M)
BUSE 101	Business Mathematics (C,M,MMR)

BUSE 115	Statistics for Business (C,M,MMR)	ARTF 107	Contemporary Art (M,MMR)
CISC 246	Discrete Mathematics for Computer Science (M,MMR)	ARTF 108	Women in Art (M)
HEIT 256	Statistics for Healthcare (M)	ARTF 109	Modern Art (C,M,MMR)
MATH 104	Trigonometry (C,M,MMR)	ARTF 110	Art History: Prehistoric to Gothic (C,M,MMR)
MATH 107	Introduction to Scientific Programming (C)	ARTF 111	Art History: Renaissance to Modern (C,M,MMR)
MATH 107L	Introduction to Scientific Programming Laboratory (C)	ARTF 113	Arts of Africa, Oceania, and the Americas (M,MMR)
MATH 109	Explorations in Mathematical Analysis (C)	ARTF 115	African Art (C,M)
MATH 115	Gateway to Experimental Statistics (C,MMR)	ARTF 120	Native American Art (M)
MATH 116	College and Matrix Algebra (C,M,MMR)	ARTF 125	Art History: Arts of the Asian Continent (C,M,MMR)
MATH 118	A Survey of Modern Mathematics (C,M,MMR)	ARTF 130	Pre-Columbian Art (M)
MATH 119	Elementary Statistics (C,M,MMR)	* ARTF 188	Women and Gender in Photography (M)
MATH 121	Basic Techniques of Applied Calculus I (C,M,MMR)	ARTF 191	Cultural Influences on Photography (M)
MATH 122	Basic Techniques of Calculus II (C,M,MMR)	ARTF 194	Critical Photography (M)
MATH 141	Precalculus (C,M,MMR)	ARTG 118	Graphic Design History (C)
MATH 150	Calculus with Analytic Geometry I (C,M,MMR)	BLAS 110	African American Art (C,M)
MATH 151	Calculus with Analytic Geometry II (C,M,MMR)	BLAS 111	Cultural Influences on African Art (M)
MATH 210A	Concepts of Elementary School Mathematics I (C,M)	BLAS 120	Black Music (C,M)
MATH 210B	Concepts of Elementary School Mathematics II (C,M)	CHIC 230	Chicano Art (C,M)
MATH 245	Discrete Mathematics (C,M,MMR)	DANC 181	History of Dance (C,M)
MATH 252	Calculus with Analytic Geometry III (C,M,MMR)	DFLM 101	Introduction to Film (MMR)
MATH 254	Introduction to Linear Algebra (C,M,MMR)	DFLM 102	The American Cinema (MMR)
MATH 255	Differential Equations (C,M,MMR)	DRAM 105	Introduction to Dramatic Arts (C,M)
POLI 201	Elementary Statistics for Political Science (C,M)	DRAM 107	Study of Filmed Plays (C)
PSYC 258	Behavioral Science Statistics (C,M,MMR)	DRAM 109	Theatre and Social Issues (C,M)
		DRAM 111	Chicana/o Theatre (C)
		DRAM 136	History of Canonized Theatre - Ancient Greece to the Restoration (C,M)
		DRAM 137	History of Canonized Western Theatre - Restoration to the Present (C,M)
		DRAM 150	Cinema as Art and Communication I (M)
		DRAM 151	Cinema as Art and Communication II (M)
		FASH 120	Fashion History and Trends (M)
		FASH 122	Ethnic Costume (M)
		INTE 125	History of Furniture and Interiors (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 (C,M,MMR)

## 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 106	Art of the United States: Colonial to Modern Period (M)

MUSI 109	World Music (C,M,MMR)
MUSI 111	Jazz History (C,M,MMR)
MUSI 117	Music in the United States (M)
MUSI 118	Asian Music (M)
MUSI 119	Music in the Americas, Africa & Europe (M)
MUSI 125	Music, the Arts, and Society (M)
PHOT 150	History of Photography (C)
RTVF 160	Introduction to Cinema (C)
RTVF 162	Women in Film (C)

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## **C2: Humanities (Literature, Philosophy, Languages Other than English)**

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AMSL 115	American Sign Language Level I (C,M,MMR)	CHIN 202	Fourth Course in Mandarin Chinese (M)
AMSL 116	American Sign Language Level II (C,M,MMR)	ENGL 208	Introduction to Literature (C,M,MMR)
* AMSL 150	Introduction to Deaf Culture (M)	ENGL 209	Literary Approaches to Film (C,M,MMR)
AMSL 215	American Sign Language Level III (C,M)	ENGL 210	American Literature I (C,M,MMR)
AMSL 216	American Sign Language Level IV (C,M)	ENGL 211	American Literature II (C,M,MMR)
ARAB 101	First Course in Arabic (C)	ENGL 215	English Literature I: 800–1799 (C,M,MMR)
ARAB 102	Second Course in Arabic (C)	ENGL 216	English Literature II: 1800–Present (C,M,MMR)
ARAB 201A	Third Course in Arabic (C)	ENGL 220	Masterpieces of World Literature I: 1500 BCE–1600 CE (C,M,MMR)
ARTF 108	Women in Art (M)	ENGL 221	Masterpieces of World Literature II: 1600–Present (C,M,MMR)
ARCH 126	History of Ancient World Architecture (M)	ENGL 230	Asian American Literature (M,MMR)
ARCH 127	History of World Architecture: Renaissance Through Contemporary (M)	ENGL 237	Women in Literature (C,M,MMR)
* ARTF 188	Women and Gender in Photography (M)	ENGL 238	Evaluating Children's Literature (C)
ARTF 191	Cultural Influences on Photography (M)	ENGL 240	Shakespeare (C,M)
BLAS 150	Black Women in Literature, Film and the Media (C,M)	FREN 101	First Course in French (C,M)
BLAS 155	African American Literature (C,M)	FREN 102	Second Course in French (C,M)
CHIC 130	Mexican Literature in Translation (C,M)	FREN 201	Third Course in French (C,M)
CHIC 135	Chicana/o Literature (C,M)	FREN 202	Fourth Course in French (C,M)
CHIC 138	Literature of La Raza in Latin America in Translation (C,M)	GERM 101	First Course in German (C,M)
CHIC 190	Chicano Images in Film (C,M)	GERM 102	Second Course in German (C,M)
CHIC 210	Chicano Culture (C,M)	GERM 201	Third Course in German (C,M)
CHIN 101	First Course in Mandarin Chinese (M)	* HIST 100	World History I (C,M,MMR)
CHIN 102	Second Course in Mandarin Chinese (M)	* HIST 101	World History II (C,M,MMR)
CHIN 201	Third Course in Mandarin Chinese (M)	* HIST 105	Introduction to Western Civilization I (C,M,MMR)
		* HIST 106	Introduction to Western Civilization II (C,M,MMR)
		* HIST 120	Introduction to Asian Civilizations (C,M,MMR)
		* HIST 121	Asian Civilizations in Modern Times (C,M,MMR)
		* HIST 131	Latin America Before Independence (M)
		* HIST 132	Latin America Since Independence (M)
		* HIST 154	Ancient Egypt (M)
		* HUMA 101	Introduction to the Humanities I (C,M,MMR)
		HUMA 102	Introduction to the Humanities II (C,M,MMR)
		HUMA 103	Introduction to the New Testament (C,M)
		HUMA 104	Introduction to the Old Testament (M)
		HUMA 106	World Religions (C,M,MMR)
		HUMA 118	Eastern Humanities (M)

HUMA 119	Western Humanities (M)	SPAN 202	Fourth Course in Spanish (C,M,MMR)
HUMA 201	Mythology (C,M,MMR)	SPAN 215	Spanish for Spanish Speakers I (C,M)
HUMA 202	Mythology: Hero's Journey (C)	SPAN 216	Spanish for Spanish Speakers II (C,M)
HUMA 205	Exploring Human Values through Film (M)	SPAN 221	Hispanic Literature for Spanish Speakers (M)
HUMA 210	Women in Religion and Myth (M)	SPAN 222	Hispanic Culture and Civilization for Spanish Speakers (M)
ITAL 101	First Course in Italian (C,M)	TAGA 101	First Course in Tagalog (M,MMR)
ITAL 102	Second Course in Italian (C,M)	TAGA 102	Second Course in Tagalog (M,MMR)
ITAL 201	Third Course in Italian (C,M)	TAGA 201	Third Course in Tagalog (M,MMR)
JAPN 101	First Course in Japanese (M)	VIET 101	First Course in Vietnamese (M)
JAPN 102	Second Course in Japanese (M)	VIET 102	Second Course in Vietnamese (M)
JAPN 201	Third Course in Japanese (M)	VIET 201	Third Course in Vietnamese (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)		
PHIL 102A	Introduction to Philosophy: Reality and 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: Ancient to Medieval (C,M,MMR)		
PHIL 104B	History of Western Philosophy: Modern to Contemporary (C,M)		
PHIL 105	Contemporary Philosophy (C,M)		
PHIL 106	Asian Philosophy (C,M)		
PHIL 107	Reflections on Human Nature (C,M,MMR)		
PHIL 108	Perspectives on Human Nature and Society (C,M)		
PHIL 110	Philosophy of Religion (M)		
PHIL 111	Philosophy in Literature (C,M)		
PHIL 112	Philosophy of Science (M)		
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)		
PHIL 131	Environmental Ethics (C,M)		
RUSS 101	First Course in Russian (C,M)		
RUSS 102	Second Course in Russian (C,M)		
RUSS 201	Third Course in Russian (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)		

## Area D. Social Sciences:

*Nine semester units (12–15 quarter units) required with courses in at least two disciplinary perspectives. For example, BLAS and ECON.*

ADJU 101	Introduction to Administration of Justice (C,MMR)
ADJU 106	Diversity and Community Relations (MMR)
ADJU 230	Constitutional Law I (MMR)
AGRI 100	Principles of Sustainable Agriculture (C)
* AMSL 150	Introduction to Deaf Culture (M)
ANTH 103	Introduction to Cultural Anthropology (C,M,MMR)
ANTH 106	World Prehistory (C,M)
ANTH 107	Introduction to Archaeology (C,M,MMR)
ANTH 110	Anthropology of Magic, Witchcraft, and Religion (C,M)
ANTH 117	Anthropology of Gender and Sexuality (M)
ANTH 140	Primatology (C)
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)
ARTF 108	Women in Art (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)	GEOG 154	Introduction to Urban Geography (C,M)
BLAS 125	Dynamics of the Black Community (M)	HEAL 103	Introduction to Public Health (M)
BLAS 130	The Black Family (C,M)	HEAL 104	Public Health and Social Justice (M)
BLAS 135	Introduction to Black Politics (C)	* HIST 100	World History I (C,M,MMR)
BLAS 140A	History of the U.S., Black Perspectives (C,M,MMR)	* HIST 101	World History II (C,M,MMR)
BLAS 140B	History of the U.S., Black Perspectives (C,M,MMR)	* HIST 105	Introduction to Western Civilization I (C,M,MMR)
BLAS 145A	Introduction to African History (C,M)	* HIST 106	Introduction to Western Civilization II (C,M,MMR)
BLAS 145B	Introduction to African History (C)	HIST 109	History of the United States I (C,M,MMR)
BLAS 175	Psycho-History of Racism and Sexism (M)	HIST 110	History of the United States II (C,M,MMR)
CHIC 110A	Introduction to Chicana and Chicano Studies (C,M)	HIST 115A	History of the Americas I (C,M,MMR)
CHIC 110B	Introduction to Chicano Studies (C,M)	HIST 115B	History of the Americas II (C,M,MMR)
CHIC 141A	United States History from a Chicano Perspective (C,M)	* HIST 120	Introduction to Asian Civilizations (C,M,MMR)
CHIC 141B	United States History from a Chicano Perspective (C,M)	* HIST 121	Asian Civilizations in Modern Times (C,M,MMR)
CHIC 150	History of Mexico (C,M)	HIST 123	U.S. History from the Asian Pacific American Perspective (C,M)
CHIC 170	La Chicana (C,M)	HIST 130	The Modern Middle East (M)
CHIC 201	The Indigenous Tradition of Mexico and Ancient Mesoamerica (C,M)	* HIST 131	Latin America Before Independence (M)
* CHIL 101	Human Growth and Development (C,M,MMR)	* HIST 132	Latin America Since Independence (M)
* CHIL 103	Lifespan Growth and Development (MMR)	HIST 141	Women in United States History I (M,MMR)
CHIL 141	The Child, Family and Community (C,M,MMR)	HIST 142	Women in United States History II (M,MMR)
* COMS 135	Interpersonal Communication (C,M,MMR)	HIST 150	Native Americans in United States History I (M)
COMS 201	Communication and Community (C,M,MMR)	HIST 151	Native Americans in United States History II (M)
CRES 101	Conflict Resolution and Mediation (C)	* HIST 154	Ancient Egypt (M)
DJRN 100	Mass Media in the Digital Age (C)	HIST 175	California History (M)
ECON 120	Principles of Macroeconomics (C,M,MMR)	* HUMS 101	Introduction to Human Aging (C)
ECON 121	Principles of Microeconomics (C,M,MMR)	JOUR 202	Introduction to Mass Communication (C,M,MMR)
ECON 220	Economics of the Environment (C,M)	LABR 100	American Labor Movement (C)
ENGL 202	Introduction to Linguistics (C,M)	* NUTR 153	Cultural Foods (M,MMR)
FILI 100	Filipino American Experience (MMR)	PADM 200	Introduction to Public Administration (C,MMR)
GDEV 101	Introduction to Global Development Studies (C)	PEAC 101	Introduction to Peace Studies (C)
GEND 101	Introduction to Gender Studies (C)	PHIL 109	Issues in Social Philosophy (M)
GEOG 102	Cultural Geography (C,M,MMR)	* PHIL 126	Introduction to Philosophy of Contemporary Gender Issues (C,M)
GEOG 104	World Regional Geography (C,M,MMR)	POLI 101	Introduction to Political Science (C,M,MMR)

POLI 102	Introduction to American Government (C,M,MMR)
POLI 103	Comparative Politics (C,M,MMR)
POLI 121	American Political Development (C,M,MMR)
POLI 123	Gender and Politics (M)
POLI 124	Introduction to Political Theory: Power and Justice (C,M)
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)
PSYC 123	Adolescent Psychology (C,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)
PSYC 283	Introduction to Cognitive Psychology (C,M,MMR)
RTVF 101	Media Law and Ethics (C)
RTVF 162	Women in Film (C)
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 145	Health and Society (C,MMR)
SOCO 150	Sociology of Latinos/Latinas (C,M)
SOCO 201	Advanced Principles of Sociology (C,M,MMR)
SOCO 220	Introduction to Research Methods in Sociology (C,MMR)
SOCO 223	Globalization and Social Change (C,M,MMR)
SPAN 222	Hispanic Culture and Civilization for Spanish Speakers (M)
SUST 101	Introduction to Sustainability (C,M,MMR)
WMNS 101	Introduction to Gender and Women's Studies (M)

## Area E. Lifelong Learning and Self-Development:

Three semester units (4–5 quarter units), not all in physical activity.

AVIA 133	Human Factors in Aviation (MMR)
BIOL 120	The Environment of Man (M)
BIOL 135	Biology of Human Nutrition (MMR)
BLAS 165	Sexuality and Black Culture (C,M)
BUSE 120	Principles of Money Management (C,M,MMR)
BUSE 205	Leadership Theory and Practice (M,MMR)
* CHIL 101	Human Growth and Development (C,M,MMR)
* CHIL 103	Lifespan Growth and Development (MMR)
COMS 180	Intercultural Communication (C,M,MMR)
DANC 127	Movement for Wellness (C,M)
HEAL 101	Health and Life Style (C,M,MMR)
HEAL 103	Introduction to Public Health (M)
HEAL 104	Public Health and Social Justice (M)
HEAL 107	Lifestyle Medicine for Health and Wellness (M)
* HUMS 101	Introduction to Human Aging (C)
NUTR 150	Nutrition (C,M,MMR)
* NUTR 153	Cultural Foods (M,MMR)
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)
EXSC 125A	Aerobic Dance I (C,M,MMR)
EXSC 125B	Aerobic Dance II (C,M,MMR)
EXSC 125C	Aerobic Dance III (C,M,MMR)
EXSC 125D	Aerobic Dance IV (C,M,MMR)
EXSC 126A	Cardio Conditioning I (C,M,MMR)
EXSC 126B	Cardio Conditioning II (C,M,MMR)
EXSC 126C	Cardio Conditioning III (C,M,MMR)
EXSC 126D	Cardio Conditioning IV (C,M,MMR)
EXSC 134	Adapted Weight Training (C,M,MMR)
EXSC 135A	Individual Conditioning I - Fundamentals (C,M,MMR)
EXSC 135B	Individual Conditioning II - Beginning (C,M,MMR)
EXSC 135C	Individual Conditioning III - Intermediate (C,M,MMR)



EXSC 135D	Individual Conditioning IV - Advanced (C,M,MMR)
EXSC 145A	Yoga I - Fundamentals of Yoga (C,M,MMR)
EXSC 145B	Yoga II - Beginning Yoga (C,M,MMR)
EXSC 145C	Yoga III - Intermediate (C,M,MMR)
EXSC 145D	Yoga IV - Advanced Level (C,M,MMR)
EXSC 294	Health and Wellness Coaching (C)
* PSYC 111	Psychological/Social Aspects of Aging, Death and Dying (C,M)
PSYC 112	Interpersonal Relations (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)
* SOCO 145	Health and Society (C,MMR)

**Note:** Students who have completed at least 6 months of continuous active US military service have satisfied Area E. DD214 or military transcript must be on file.



# Degree Curricula and Certificate Programs



# Degree and Certificate List

Degree	B.S. Degree	Associate Degree for Transfer	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
<b>Accounting</b>							
Accounting				X	X		158
Governmental/ Nonprofit Accounting						X	157
<b>ASL Studies/ASL English Interpreting</b>							
American Sign Language Studies			X		X		159
ASL-English Interpretation			X		X		160
<b>Anthropology</b>							
Anthropology		X	X				161
<b>Architecture</b>							
Architecture Design				X			164
Architecture Technician				X			164
Architecture: University Track				X			165
Construction Management				X			164
<b>Art-Fine Art</b>							
Fine Art						X	166
Fine Art: Art History		X	X				166
Fine Art: Ceramics			X				168
Fine Art: Digital Art			X				168
Fine Art: Museum Studies			X				169
Fine Art: Photography and New Genres			X				172
Studio Arts		X					169
Fine Art: Three-Dimensional			X				171
Fine Art: Two-Dimensional			X				171
Museum Studies						X	166
<b>Biology</b>							
Allied Health Track				X			174
Biology		X					174
Transfer Track				X			173
<b>Black Studies</b>							
Black Studies			X				176

# Degree and Certificate List

Degree	B.S. Degree	Associate Degree for Transfer	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
<b>Building Construction Technology</b>							
Inspection				X	X		177
<b>Business Administration</b>							
Business Administration		X		X	X		178
Small Business Management and Entrepreneurship				X	X		179
<b>Business Management</b>							
Business Management				X	X		183
Retail Management					X		184
<b>Chemistry</b>							
Chemistry				X	X		185
<b>Chicana and Chicano Studies</b>							
Chicana and Chicano Studies			X				187
<b>Child Development</b>							
Assistant Teacher						X	188
Associate Teacher					X		189
Child Development				X			190
Home Day Care						X	188
Master Teacher					X		189
Teacher					X		189
<b>Communication Studies</b>							
Communication Studies		X	X				191
<b>Computer Business Technology</b>							
Administrative Assistant				X			194
Business Information Worker I					X		193
<b>Computer and Information Sciences</b>							
Computer and Information Sciences				X	X		195
Computer Programming						X	195
Computer Science		X					196

# Degree and Certificate List

Degree	B.S. Degree	Associate Degree for Transfer	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
<b>Culinary Arts/Culinary Management in Hospitality</b>							
Culinary Arts/Culinary Management in Hospitality				X	X		197
<b>Dance</b>							
Choreography					X		200
Commercial Dance					X		199
Dance			X			X	199
<b>Dental Assisting (RDA,CDA)</b>							
Dental Assisting (RDA,CDA)				X	X		203
<b>Dramatic Arts</b>							
Dramatic Arts			X				205
Performance					X		204
Theatre Arts		X					205
<b>Economics</b>							
Economics		X					206
<b>Education</b>							
Elementary Teacher Education		X					208
<b>Engineering</b>							
Engineering				X	X		210
<b>English</b>							
Creative Writing					X		212
English		X	X				212
<b>Exercise Science</b>							
Kinesiology		X		X			216
Personal Trainer					X		215
<b>Fashion</b>							
Computer Fashion Technology: Design				X	X		221
Computer Fashion Technology: Merchandising				X	X		221
Fashion Design				X	X		220
Fashion Merchandising				X	X		220
<b>Fermentation</b>							
Fermentation Management				X	X		225

# Degree and Certificate List

Degree	B.S. Degree	Associate Degree for Transfer	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
<b>French</b>							
French			X				226
<b>Geographic Information Systems</b>							
Geographic Information Systems				X			227
Geographic Information Systems Technician					X		227
<b>Geography</b>							
Geography		X	X				229
<b>Geology</b>							
Geology		X					230
<b>Health Information Technology</b>							
Coding Specialist					X		232
Health Information Management	X						234
Health Information Technology				X			233
<b>History</b>							
History		X	X				236
<b>Hospitality</b>							
Hospitality Management				X	X		239
<b>Humanities</b>							
Humanities and Religious Studies			X				240
<b>Interior Design</b>							
Interior Design				X	X		242
<b>Japanese</b>							
Japanese			X				243
<b>Journalism</b>							
Journalism		X	X		X		244
<b>Liberal Arts</b>							
Honors Global Competencies					X		247
<b>Liberal Arts and Sciences</b>							
CSU General Education (CSU-GE-Breadth)					X		251
Intersegmental General Education Transfer Curriculum (IGETC)					X		251

# Degree and Certificate List

Degree	B.S. Degree	Associate Degree for Transfer	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
Art Studies—Art			X				252
Business Studies			X				253
Language Arts and Humanities—Chinese			X				254
Language Arts and Humanities —French			X				255
Language Arts and Humanities —German			X				256
Language Arts and Humanities—Italian			X				256
Language Arts and Humanities —Japanese			X				257
Language Arts and Humanities —Philosophy			X				257
Language Arts and Humanities —Russian			X				258
Language Arts and Humanities —Spanish			X				259
Language Arts and Humanities —Vietnamese			X				259
Mathematics and Pre-Engineering —Computer Science			X				261
Mathematics and Pre-Engineering —Engineering			X				261
Mathematics and Pre-Engineering —Mathematics			X				260
Science Studies—Biological Science			X				262
Science Studies—Chemistry			X				262
Science Studies—Kinesiology and Nutrition			X				264
Science Studies—Physics			X				263
Science Studies—Pre-Nursing			X				263
Science Studies—Psychology			X				264



# Degree and Certificate List

Degree	B.S. Degree	Associate Degree for Transfer	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
Social and Behavioral Sciences— Anthropology			X				265
Social and Behavioral Sciences—Child Development			X				265
Social and Behavioral Sciences—Economics			X				266
Social and Behavioral Sciences— History			X				266
Social and Behavioral Sciences— Human Development			X				267
Social and Behavioral Sciences—Political Science			X				267
Social and Behavioral Sciences—Psychology			X				268
Social and Behavioral Sciences—Social Sciences			X				268
Social and Behavioral Sciences—Sociology			X				269
Social and Behavioral Sciences—Women's Studies			X				269
<b>Liberal Studies</b>							
Liberal Arts: Elementary Education Preparation			X				271
<b>Marketing</b>							
Marketing				X	X		272
<b>Mathematics</b>							
Applied Mathematics			X				273
Mathematics		X	X				273
<b>Medical Assisting</b>							
Medical Assisting				X	X		275
<b>Multimedia</b>							
3D Modeling and Animation					X		277
Interactive Media Production					X		277
Video Game Design and Development				X	X		277
Visual Communication				X			278

# Degree and Certificate List

Degree	B.S. Degree	Associate Degree for Transfer	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
<b>Music</b>							
Music Composition					X		279
Music Technology					X		279
Music Theory					X		279
Music Studies			X				279
<b>Neurodiagnostic Technology</b>							
Neurodiagnostic Technology				X	X		282
<b>Nutrition</b>							
Nutrition				X	X		283
Nutrition and Dietetics		X					284
Nutrition and Fitness				X	X		284
<b>Philosophy</b>							
Philosophy		X	X				286
<b>Phlebotomy</b>							
Phlebotomy Training Program						X	288
<b>Physical Sciences</b>							
Physical Sciences				X	X		290
<b>Physical Therapist Assistant</b>							
Physical Therapist Assistant				X			291
<b>Physics</b>							
Physics		X		X	X		293
<b>Political Science</b>							
Political Science		X	X				295
<b>Psychology</b>							
Psychology		X	X				297
<b>Radiologic Technology</b>							
Radiologic Technology				X	X		301
<b>Real Estate</b>							
Real Estate				X			302
<b>Social Sciences</b>							
Global Culture Studies						X	303
Social Sciences – General			X				303
<b>Sociology</b>							
Sociology		X	X				305

# Degree and Certificate List

Degree	B.S. Degree	Associate Degree for Transfer	A.A. Degree	A.S. Degree	Certificate of Achievement	Certificate of Performance	Page
<b>Spanish</b>							
Spanish		X	X				307
<b>Sustainability</b>							
Sustainability			X		X		308
<b>Veterinary Technology</b>							
Veterinary Technology				X			309
<b>Web Development</b>							
Web Design				X	X		312
<b>Women's Studies</b>							
Women's Studies						X	313

## Career Education (CE)

Mesa College's CE programs are generally designed to prepare students for immediate employment into living wage jobs and careers. These programs offer specialized training to develop job-related skills and preparation for any necessary certification/licensing. Mesa College works with local industry to provide current programs, with proven faculty leaders, in state-of-the-art facilities to meet the needs of the San Diego region. Many programs provide direct clinical experience, access to internships, work experience and other work-based learning opportunities. CE programs include skill-building courses, certificates and associate degrees in:

- Accounting
- American Sign Language Studies / ASL – English Interpretation
- Architecture
- Building Construction Technology
- Business Administration and Management
- Child Development
- Computer Business Technology
- Computer Information Science
- Culinary Arts / Culinary Management
- Dance: Choreography; Commercial Dance
- Dental Assisting
- Fashion
- Fermentation
- Fitness Specialist
- Geographic Information Systems
- Health Information Management
- Health Information Technology
- Hospitality
- Interior Design
- Journalism
- Marketing
- Medical Assisting
- Multimedia
- Neurodiagnostic Technician
- Nutrition

- Phlebotomy
- Physical Therapist Assistant
- Radiologic Technology
- Real Estate
- Veterinary Technology (Registered Veterinary Technician)
- Web Development

## Work-Based Learning

San Diego Mesa College Work-Based Learning (WBL) is a continuum of experiential learning strategies and Q activities designed to bridge students' educational learning with valuable real-work experience. Students gain progressive exposure and interactions with industries and employers to explore career opportunities and develop workplace skills. WBL is the unifying force that launches lifelong career journeys through cultivating a culture of career by integrating a continuum of academics and real-world experiences for students, faculty, classified professionals, employers, community partners, and alumni. Work-Based Learning activities may be integrated into classroom learning through in-class assignments, campus-wide events, or workplace activities.

### Outcomes:

- Cultivating a Culture of Career
- Providing access through equitable engagement
- Fostering mutually reciprocal relationships
- Instilling confidence
- Launching lifelong career journey
- Building and sharing of social capital
- Caring and investment in our community
- Creating and sustaining a sense of belonging

### WBL Types of Activities:

#### Awareness & Exploration:

- Career Field Trips
- Job Shadowing
- Mentoring
- Guest Speaker
- Research Project

- Student-Run Enterprise

### Employment Readiness:

- Career Exploration
- Job Search Coaching
- Employer Information Sessions
- Classroom Presentations
- Personal Branding

### Preparation & Training:

- Internships
- Work Experience
- Service Learning
- Community Service/ Volunteer
- Research

Learn more at: [www.sdmesa.edu/WBL](http://www.sdmesa.edu/WBL)

# Accounting

Award Type	Units
<b>Certificate of Performance:</b>	
Governmental/Nonprofit Accounting	14
<b>Certificate of Achievement:</b>	
Accounting	23
<b>Associate of Science Degree:</b>	
Accounting	39*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### 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.

### Program 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.
- **Self-Awareness and Interpersonal Skills:** Students will recognize and respect the business opinion and perspective of others, and they will be able to work effectively with superiors, peers, and subordinates in organized group settings.
- **Global/Technological Awareness:** Students will understand and apply the use of modern technology to business situations.
- **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.

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	3
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.

**Note:** This program is not eligible for federal financial aid in accordance with Federal regulations.

## 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

### Select one course from:

ACCT 120	Federal Income Tax	3
ACCT 125	Government & Not-for-Profit Accounting	3
ACCT 135	Principles of Auditing	3
ACCT 201B	Intermediate Accounting II	3

**Total Units = 23**

## Associate of 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	3
ACCT 125	Government & Not-for-Profit Accounting	3
ACCT 135	Principles of Auditing	3

**Total Units = 39**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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 "Nutrition" on page 281.

See "Dental Assisting (RDA, CDA)" on page 201.

See "Health Information Technology" on page 230.

See "Health Information Management" on page 234

See "Medical Assisting" on page 275.

See "Phlebotomy Training" on page 288

See "Physical Therapist Assistant" on page 291.

See "Radiologic Technology" on page 300.

See "Veterinary Technology" on page 309.

## 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

# ASL Studies/ASL English Interpreting

Award Type	Units
<b>Certificate of Achievement:</b>	
American Sign Language Studies	32
ASL–English Interpretation	37
<b>Associate of Arts Degree:</b>	
American Sign Language Studies	32*
ASL–English Interpretation	37*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## Description

The American Sign Language (ASL) Studies and the ASL–English Interpretation programs offer students a variety of certificate and degree options designed to prepare them for transfer to four-year institutions as well as for deafness-related careers in the public and private sectors.

## Program 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.

## Program Goals

The American Sign Language Studies program focuses on beginning to advanced ASL language skill development. This program encourages student involvement in the social and cultural activities

of the Deaf community as it emphasizes student awareness of ASL as a unique language and Deaf culture and history. Students who complete the ASL Studies program may choose to work with Deaf and/or Hard-of-Hearing individuals in education and/or other human, social or community services or they may choose to transfer to a four-year institution or begin work toward a certificate or degree in the ASL–English Interpretation program.

## Program Emphasis

The ASL Studies program places special emphasis on preparing students for public and private sector employment working with the Deaf and/or Hard-of-Hearing community. This program also provides a pathway to continued education in a variety of disciplines and to the ASL–English Interpretation program.

## Career Options

A fluent command of ASL provides a special advantage to students preparing for careers in teaching, social work, counseling, ASL–English interpreting, health care, audiology and psychology. Students who wish to use their ASL skills immediately upon graduation may work as teachers' assistants, tutors, after-school education and/or recreation staff, and child care staff.

**Note:** Students must fulfill district general education requirements in addition to the following courses in order to be eligible for the Associate of Arts Degree.

## Certificate of Achievement: American Sign Language Studies

Courses Required for the Major:		Units
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 150	Introduction to Deaf Culture	3
AMSL 155	Implications of Deafness	3
AMSL 214	American Sign Language Fingerspelled Signs	3
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 = 32</b>

## Associate of Arts Degree: American Sign Language Studies

Courses Required for the Major:		Units
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 150	Introduction to Deaf Culture	3
AMSL 155	Implications of Deafness	3
AMSL 214	American Sign Language Fingerspelled Signs	3
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

**Total Units = 32**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

### Program Goals

The ASL–English Interpretation program is a rigorous, two-year, full-time course of study designed to prepare students to facilitate communication between ASL and English speakers. This program focuses on beginning to advanced level translation, transliteration and interpretation skill development with special emphasis on the professional code of ethics and cultural mediation. This ASL–English Interpretation program enjoys a nation-wide reputation for excellence and for producing successful students with marketable skills.

### Program Emphasis

ASL–English Interpretation is a richly fulfilling and creative profession requiring keen intelligence and a sensitivity to the smallest nuances in communication. The City of San Diego faces a critical shortage of qualified interpreters. The ASL–English Interpretation program emphasizes developing highly-skilled interpreters for the community as more Deaf people enter business, education and social services, and as the Americans with Disabilities Act (ADA) requires the hiring of more qualified ASL–English Interpreters to provide equal access.

## Career Options

Professional interpreters have opportunities to work in a variety of private and public sector settings, including: Performing Arts (concerts, theatre), Media Arts (television and film), Telecommunications (remote video interpreting, video relay), Medical and Mental Health settings (hospitals, doctors' offices, group sessions, individual therapy, testing), Education (K-12 and college), Business (meetings, trainings) and Religious (church services, weddings, funerals).

**Note:** Students must fulfill district general education requirements in addition to the following courses in order to be eligible for the Associate of Arts Degree.

## Certificate of Achievement: ASL–English Interpretation

Courses Required for the Major:		Units
AMSL 150	Introduction to Deaf Culture	3
AMSL 155	Implications of Deafness	3
AMSL 214	American Sign Language Fingerspelled Signs	3
AMSL 225	Introduction to Linguistics of American Sign Language	3
AMSL 230	Interpretation I	4
AMSL 235	Professional Aspects of Interpretation	3
AMSL 240	Interpretation II	4
AMSL 245	Specialized Settings in Interpretation	3
AMSL 250	Interpretation III	4
AMSL 255	Interpretation IV	4
AMSL 276	Field Work in Interpretation	3

**Total Units = 37**

## Associate of Arts Degree: ASL–English Interpretation

Courses Required for the Major:		Units
AMSL 150	Introduction to Deaf Culture	3
AMSL 155	Implications of Deafness	3
AMSL 214	American Sign Language Fingerspelled Signs	3
AMSL 225	Introduction to Linguistics of American Sign Language	3
AMSL 230	Interpretation I	4
AMSL 235	Professional Aspects of Interpretation	3
AMSL 240	Interpretation II	4
AMSL 245	Specialized Settings in Interpretation	3
AMSL 250	Interpretation III	4
AMSL 255	Interpretation IV	4
AMSL 276	Field Work in Interpretation	3

**Total Units = 37**



For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

# Anthropology

Award Type	Units
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**Associate of Arts Degree:**

Anthropology	18*
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\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

**Associate in Arts for Transfer Degree:**

Anthropology	18–20
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## Description

Anthropology is the study of what it means to be human, with a worldwide perspective and a time depth of millions of years. It encompasses five sub-fields of cultural anthropology, biological anthropology, archaeology, linguistic anthropology, and applied anthropology. The study of anthropology prepares students to better understand themselves in their own sociocultural context, better understand and communicate across cultural boundaries, and prepare for careers involving social interaction and policy (EG, business, education, environmental protection and cultural resource management, health, law, and religion).

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.

## Program Learning Outcomes

Students who complete the Anthropology Program will acquire these skills:

- **Critical Thinking:** Use an anthropological framework to think critically in reading, writing, and/or speaking, thereby interpreting relevant problems, theses, arguments and evidence to draw and defend rational conclusions.
- **Communication:** Effectively communicate employing anthropological perspectives while recognizing and respecting potential differences in worldview.
- **Personal Actions and Civic Responsibilities:** Articulate the varieties of biological and cultural adaptations and demonstrate an understanding of cultural diversity.
- **Global Awareness:** Articulate ability to understand one's role in local and global society, take responsibility for one's own actions, and make ethical decisions in complex situations.
- **Information Literacy:** Collect data and engage with research through appropriate use of an array of scholarly sources and through discipline-specific technologies and frameworks.

## Associate of Arts Degree: Anthropology

Courses Required for the Major:	Units
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ANTH 102	Introduction to Physical Anthropology	3
ANTH 103	Introduction to Cultural Anthropology	3
ANTH 107	Introduction to Archaeology	3

**Select a minimum of nine units from the following:**

ANTH 104	Laboratory in Physical Anthropology	1
ANTH 106	World Prehistory	3
ANTH 110	Anthropology of Magic, Witchcraft, and Religion	3
ANTH 117	Anthropology of Gender and Sexuality	3
ANTH 120	Archaeological Artifact Analysis	3
ANTH 200	Introduction to North American Indians	3
ANTH 205	Introduction to Medical Anthropology	3
ANTH 210	Introduction to California Indians	3
ANTH 215	Cultures of Latin America	3

**Total Units = 18**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Art-Fine Art 110, 113, 115, 120, 125, 130, 195A, Biology 100, 107, 215, 230,

250; Black Studies 116; Chicano Studies 170, 210; Communication Studies 103 or 135; Economics 220; English 202, 210, 215, 220; Geography 101, 102, 154; Geology 100, 101; Geographic Information Systems 110; History 105, 106, 100, 150, 151, 154, 175; Philosophy 100, 102A, 108, 109, 126; Political Science 140; Psychology 101, 166, 258 (or Math 119), 260; Sociology 101, 110, 223.

**Other Recommended Electives:** Foreign Languages (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).

### Associate in Arts in Anthropology for Transfer Degree:

The Associate in Arts in Anthropology for Transfer Degree is intended for students who plan to complete a bachelor's degree in Anthropology or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

#### Program Learning Outcomes

Students who complete the Anthropology Program will acquire these skills:

- **Critical Thinking:** Use an anthropological framework to think critically in reading, writing, and/or speaking, thereby interpreting relevant problems, theses, arguments and evidence to draw and defend rational conclusions.
- **Communication:** Effectively communicate employing anthropological perspectives while recognizing and respecting potential differences in worldview.
- **Personal Actions and Civic Responsibilities:** Articulate the varieties of biological and cultural adaptations and demonstrate an understanding of cultural diversity.
- **Global Awareness:** Articulate ability to understand one's role in local and global society,

take responsibility for one's own actions, and make ethical decisions in complex situations.

- **Information Literacy:** Collect data and engage with research through appropriate use of an array of scholarly sources and through discipline-specific technologies and frameworks.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

#### Award Notes:

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

<b>Courses Required for the Major:</b>		<b>Units</b>
ANTH 102	Introduction to Biological Anthropology	3
ANTH 103	Introduction to Cultural Anthropology	3
ANTH 107	Introduction to Archaeology	3

#### Category A: Select one of the following courses (3 units):

ENGL 202	Introduction to Linguistics	3
MATH 119	Elementary Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics	3

#### Category B: Select one or two of the following courses, or any course not selected in Category A (3–5 units):

BIOL 230	Human Anatomy	4
GEOL 100	Physical Geology	3
<b>and</b>		
GEOL 101	General Geology Laboratory	1
GISG 104	Geographic Information Science and Spatial Reasoning	3
PHIL 112	Philosophy of Science	3

PSYC 255	Introduction to Psychological Research	3
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**Category C: One course from the following (3–4 units):**

ANTH 104	Laboratory in Biological Anthropology	1
ANTH 115	Introduction to Archaeological Field Work	4
ANTH 120	Archaeological Artifact Analysis	3
ANTH 200	Introduction to North American Indians	3
ANTH 205	Introduction to Medical Anthropology	3
ANTH 210	Introduction to California Indians	3
ANTH 215	Cultures of Latin America	3
GEOG 101	Physical Geography	3
<b>and</b>		
GEOG 101L	Physical Geography Laboratory	1
GEOG 102	Cultural Geography	3
GEOL 104	Earth Science	3
HUMA 106	World Religions	3
MUSI 109	World Music	3
SOCO 101	Principles of Sociology	3

**Total Units = 18–20**

**Electives as needed to meet maximum 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.**

# Architecture

Award Type	Units
<b>Associate of Science Degree:</b>	
Architecture Design	41*
Architecture Technician	23*
Architecture: University Track	35*
Construction Management	30*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### 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. Emphasis is placed on design and 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.

### University Track 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 leading to B.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 offices.

### Program Learning Outcomes

Students who complete the Architecture Program will be able to:

#### Critical Thinking

- Think independently, creatively, logically and critically in a problem/project based curriculum

that requires applying complex problem-solving methods.

- Resolve programmatic, spatial, social, political, engineering and sustainable design issues while developing rational, personal, creative and individual problem and design solutions.

**Communication**

- Write about, speak about, and/or graphically articulate solutions to design problems and the processes of arriving at these solutions to faculty, visiting critics, and fellow students.
- Respond appropriately in a variety of methods, including, but not limited to, a combination of written assignments and analysis, programmatic issues, design projects, non-digital and digital assignments, written tests and quizzes.

**Professional & Ethical Behavior**

- Demonstrate the ability to work both independently and collaboratively.
- Develop a greater sense of self-awareness.
- Develop cultural sensitivity and interpersonal skills while participating in team projects, role-playing, and workplace scenarios.

**Global Consciousness**

- Demonstrate knowledge of global issues and an awareness of global, national and local concerns from multiple perspectives.
- Develop an awareness, respect and appreciation for the diversity of individuals through the evaluation and integration of programmatic issues, design issues, historical issues, and political, cultural and social perspectives that are international in scope, including issues of diversity, equity, sustainability and environmental sensitivity.

**Information & Technological Literacy**

- Gather, analyze, evaluate and disseminate information using multiple means of expression including, but not limited to written assignments and analysis, design projects, non-digital and digital assignments and presentation techniques.
- Demonstrate an awareness of current technology through the use of state-of-the-art equipment and software including, but not limited to, computers, scanners, plotters, printers, copiers, digital projectors, laser engravers and 3D model

making technologies including current editions of software utilized in the profession.

**Associate of Science Degree: Architecture**

**Architecture Technician**

<b>Courses Required for the Major:</b>		<b>Units</b>
ARCH 100	Graphic Design Communication I	2
ARCH 101	ArchiCAD	3
ARCH 103	Introduction to Architecture and Environmental Design	3
ARCH 107	Revit	3
ARCH 112	AutoCAD	3
ARCH 115	Architectural Model Making	2
ARCH 130	Materials of Construction	3
ARCH 141	Professional Practice in Architecture	4
<b>Total Units = 23</b>		

**Associate of Science Degree: Architecture**

**Architecture Design**

<b>Courses Required for the Major:</b>		<b>Units</b>
ARCH 100	Graphic Design Communication I	2
ARCH 103	Introduction to Architecture and Environmental Design	3
ARCH 126	History of Ancient World Architecture	
<b>or</b>		
ARCH 127	History of World Architecture: Renaissance Through Contemporary	3
ARCH 170	Architectural Design	4
ARCH 172	Architectural Design II	4
ARCH 173	Architectural Site Design: Creating Exterior Spaces	4
ARCH 175	Advanced Architectural Design I	5
ARCH 180A	Advanced Architectural Design IIA	5
ARCH 220	Graphic Design Communication II	2
ARCH 221	Graphic Design Communication III	2
ARCH 226	Architectural Theory	3
ARCH 231	Sustainability in the Built Environment	4
<b>Total Units = 41</b>		

**Associate of Science Degree: Architecture**

**Construction Management**

<b>Courses Required for the Major:</b>		<b>Units</b>
ARCH 100	Graphic Design Communication I	2
ARCH 112	AutoCAD	3

ARCH 130	Materials of Construction	3
ARCH 141	Professional Practice in Architecture	4
ARCH 205	Estimating	3
BLDC 75	Construction Management I	3
BLDC 80	Construction Project Management and Scheduling	3
BLDC 70	Building Codes and Zoning	3
BLDC 68	Electrical, Plumbing and Mechanical Codes	3
BLDC 95	Building Contractor's License Law	3
<b>Total Units = 30</b>		

## Associate of Science Degree: Architecture

### Architecture: University Track

<b>Courses Required for the Major:</b>	<b>Units</b>	
ARCH 101	ArchiCAD	3
ARCH 126	History of Ancient World Architecture	3
ARCH 127	History of World Architecture: Renaissance 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 180A	Advanced Architectural Design IIA	5
ARCH 220	Graphic Design Communication II	2
ARCH 226	Architectural Theory	3
<b>Total Units = 35</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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

<b>Award Type</b>	<b>Units</b>
<b>Certificate of Performance:</b>	
Fine Art	15
Museum Studies	10
<b>Associate of Arts Degree:</b>	
Fine Art: Art History	33*
Fine Art: Ceramics	36*
Fine Art: Digital Art	33*
Fine Art: Museum Studies	34*
Fine Art: Photography and New Genres	37*
Fine Art: Three-Dimensional	34*
Fine Art: Two-Dimensional	34*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Associate in Arts for Transfer Degree:

Art History	18
Studio Arts	24

### 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 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. Students may obtain an associate of arts degree, certificate, and/or complete the major preparation requirements in Fine Art for transfer to a four-year institution.

### 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, Art History, Ceramics, Museum Studies, and Photography and New Genres.

### Career Options

Career options may include art practice, gallery management and curatorial practice.

### Program 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.

Courses:		Units
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

**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.

**Note:** This program is not eligible for federal financial aid in accordance with Federal regulations.

### 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.

Courses:	Units
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

**Total Units = 10**

\*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.

**Note:** This program is not eligible for federal financial aid in accordance with Federal regulations.

### Associate of Arts Degree: Fine Art: Art History

The Fine Art: Art History Associate of Arts Degree focuses on the development of an understanding of the core foundation of a global history of art. Students will be able to apply and expand this knowledge to specific problems of media and context. Successful completion of the courses indicates that a student has achieved an applicable understanding of certain essential visual skills to critically analyze cultural and historical factors that manifest in various types of visual media.

Courses Required for the Major:		Units
ARTF 107	Contemporary Art	3
ARTF 109	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
	<b>or</b>	
ARTF 155A	Freehand Drawing I	3
	<b>or</b>	
ARTF 231	Introduction to Digital Art	3

**Select nine units (three courses) from the following:**

ARTF 106	Art of the United States: Colonial to Modern Period	3
ARTF 108	Women in Art	3
ARTF 115	African Art	3
ARTF 120	Native American Art	3
ARTF 130	Pre-Columbian Art	3
ARTF 161A	Museum Studies/Gallery Exhibition Skills I	3
ARTF 165A	Composition in Painting I	3
ARTF 175A	Sculpture I	3
ARTF 188	Women and Gender in Photography	3
ARTF 191	Cultural Influences on Photography	3
ARTF 194	Critical Photography	3
ARTF 195A	Ceramics I	3
ARTF 210A	Life Drawing I	3
BLAS 110	African American Art	3
CHIC 230	Chicano Art	3

**Total Units = 33**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate in Arts in Art History for Transfer Degree:

The Associate in Arts in Art History for Transfer Degree is intended for students who plan to complete a bachelor's degree in Art History or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

### Program Learning Outcomes:

Students who complete the Associate in Arts in Art History for Transfer Degree will be able to:

- **Critical Thinking:** Students will develop the ability to affect critical thinking in visual terms.
- **Historical Awareness:** Students will develop the ability to engage visual art as defined in a progression of change.
- **Visual Literacy:** Students will develop the ability to employ art concepts and terminology effective and 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.
- **Global Awareness:** Students will develop the ability to expand the vision of the role of art in the greater culture and an awareness of cultural diversity (and its use/effect on art-making).

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

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

### Award Notes:

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

<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 155A	Freehand Drawing I	3

**Category A: Select one of the following courses (3 units):**

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
ARTF 130	Pre-Columbian Art	3

**Category B: Select one or two of the following courses, or any course not selected in Category A:**

ARTF 150A	Two-Dimensional Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 165A	Composition in Painting I	3
ARTF 175A	Sculpture I	3
ARTF 190A	Black and White Art Photography	3
ARTF 191	Cultural Influences on Photography	3
ARTF 194	Critical Photography	3
ARTF 195A	Ceramics I	3
ARTF 197A	Handbuilding Ceramics I	3
ARTF 198A	Introduction to Printmaking I	3
ARTF 198B	Introduction to Printmaking II	3
ARTF 198C	Introduction to Printmaking III	3
ARTF 210A	Life Drawing I	3
ARTF 231	Introduction to Digital Art	3
ARTF 232	Introduction to Digital Drawing and Painting	3
ARTF 233	Introduction to Digital Photographic Imaging	3

**Category C: Select one of the following courses, or any course not selected in Category A or B (3 units):**

ARTF 107	Contemporary Art	3
ARTF 109	Modern Art	3
BLAS 110	African American Art	3
CHIC 230	Chicano Art	3

**Total Units = 18**

**Electives as needed to meet maximum of 60 units required for the degree.**

## Associate of Arts Degree: Fine Art: Ceramics

The Fine Art: Ceramics Associate of Arts Degree 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.

**Courses Required for the Major:**

	<b>Units</b>	
ARTF 107	Contemporary Art	3
ARTF 109	Modern Art	3
<b>or</b>		
ARTF 110	Art History: Prehistoric to Gothic	3
<b>or</b>		
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3
ARTF 231	Introduction to Digital Art	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 six units (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 three units (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

**Total Units = 36**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate of Arts Degree: Fine Art: Digital Art

**Courses Required for the Major:**

	<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 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3



ARTF 231	Introduction to Digital Art	3
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**Complete course requirements for emphasis in digital art.**

ARTF 107	Contemporary Art	3
ARTF 161A	Museum Studies/Gallery Exhibition Skills I	3
ARTF 232	Introduction to Digital Drawing and Painting	3
ARTF 233	Introduction to Digital Photographic Imaging	3

**Select three units (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 191	Cultural Influences on Photography	3
ARTF 205A	Installation, Performance and New Genres	3
MULT 100	Introduction to Visual Communication	3

**Total Units = 33**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate of Arts Degree: Fine Art: Museum Studies

The Fine Art: Museum Studies Associate of Arts Degree 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 skills within a professional arts setting. Students may obtain an Associate of Arts degree, complete preparation for the major in fine art and/or transfer to a four-year institution. Careers related to this field include art practice, gallery management and curatorial 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	Modern Art	3
<b>or</b>		
ARTF 110	Art History: Prehistoric to Gothic	3
<b>or</b>		

ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3
ARTF 233	Introduction to Digital Photographic Imaging	3

**Complete the requirements for the museum studies emphasis:**

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
CHIC 230	Chicano Art	3
<b>or</b>		
ARTF 115	African Art	3

**Select three units (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
ARTF 130	Pre-Columbian Art	3
ARTF 152	Color Theory	3
ARTF 191	Cultural Influences on Photography	3
ARTF 194	Critical Photography	3
ARTF 198A	Introduction to Printmaking I	3
ARTF 231	Introduction to Digital Art	3

**Total Units = 34**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate in Arts in Studio Arts for Transfer Degree:

The Associate in Arts in Studio Arts for Transfer degree program is designed to prepare students to meet admission at the California State University transfer admission requirements.

**Award Notes:**

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
  - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
  - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a “C” or better in all courses required for the major or area of emphasis.

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

**Program Goals:**

The purpose of this Associate in Arts degree program in Studio Arts is to offer an organized course of study that will prepare students intending to major in Studio Arts at the California State University.

**Program Emphasis:**

The Associate in Arts in Studio Arts for Transfer program emphasizes preparation for the major in Studio Arts at the California State University.

The Associate in Arts in Studio Arts for Transfer is intended for students who plan to complete a bachelor’s degree in Studio Arts or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

<b>Courses Required for the Major:</b>		<b>Units</b>
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 151	Three-Dimensional Design	3

ARTF 155A	Freehand Drawing I	3
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**Category A: Select one of the following courses (3 units):**

ARTF 110	Art History: Prehistoric to Gothic	3
ARTF 113	Arts of Africa, Oceania, and the Americas	3
ARTF 125	Art History: Arts of the Asian Continent	3

**Category B: Select three of the following courses (9 units)**

ARTF 107	Contemporary Art	3
ARTF 109	Modern Art	3
ARTF 120	Native American Art	3
ARTF 150B	Beginning Graphic Design	3
ARTF 152	Color Theory	3
ARTF 155B	Freehand Drawing II	3
ARTF 165A	Composition in Painting I	3
ARTF 165B	Composition in Painting II	3
ARTF 165C	Composition in Painting III	3
ARTF 165D	Composition in Painting IV	3
ARTF 174A	Book Arts I	3
ARTF 175A	Sculpture I	3
ARTF 175B	Sculpture II	3
ARTF 175C	Sculpture III	3
ARTF 190A	Black and White Art Photography	3
ARTF 191	Cultural Influences on Photography	3
ARTF 194	Critical Photography	3
ARTF 195A	Ceramics I	3
ARTF 195B	Ceramics II	3
ARTF 197A	Handbuilding Ceramics I	3
ARTF 197B	Handbuilding Ceramics II	3
ARTF 198A	Introduction to Printmaking I	3
ARTF 198B	Introduction to Printmaking II	3
ARTF 198C	Introduction to Printmaking III	3
ARTF 205A	Installation, Performance and New Genres	3
ARTF 210A	Life Drawing I	3
ARTF 210B	Life Drawing II	3
ARTF 210C	Life Drawing III	3
ARTF 220A	Life Sculpture I	3
ARTF 220B	Life Sculpture II	3
ARTF 220C	Life Sculpture III	3
ARTF 231	Introduction to Digital Art	3
ARTF 233	Introduction to Digital Photographic Imaging	3
MULT 101	Introduction to Visual Communication	4
MULT 137	3D Animation I: Introduction to 3D Modeling and Animation	3

**Total Units = 24**

**Electives as needed to meet maximum of 60 units required for the degree.**

## Associate of Arts Degree: Fine Art: Three-Dimensional

The Fine Art: Three-Dimensional Associate of Arts Degree 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	Modern Art	3
<b>or</b>		
ARTF 110	Art History: Prehistoric to Gothic	3
<b>or</b>		
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 231	Introduction to Digital Art	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 Art Studio Lab	1

### Select three units (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

### Select three units (one course) from the following:

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 205A	Installation, Performance and New Genres	3
ARTF 210A	Life Drawing I	3

ARTF 220A Life Sculpture I 3

**Total Units = 34**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate of Arts Degree: Fine Art: Two-Dimensional

The Fine Art: Two-Dimensional Associate of Arts Degree 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	Modern Art	3
<b>or</b>		
ARTF 110	Art History: Prehistoric to Gothic	3
<b>or</b>		
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3
ARTF 231	Introduction to Digital Art	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	1
<b>or</b>		
ARTF 280F	Photography Studio Lab	1

### Select six units (two courses) from the following:

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 three units (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

**Total Units = 34**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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.**

**Associate of Arts Degree: Fine Art: Photography and New Genres**

The Fine Art: Photography and New Genres Associate of Arts Degree focuses on developing student understanding of photographic art practice and theory and inventing new sites of cultural production, methodologies and genres in the process. Students learn to produce visually compelling content using knowledge of composition, light, and camera operation. They are challenged to build upon these technical skills by applying their own critical theories and aesthetic and ethical concerns. By examining diverse cultural movements and alternate philosophical viewpoints students are able to relate these perspectives to the development of a self-sustaining and coherent set of artistic principles.

**Note:** The Fine Art: Photography and New Genres Associate of Arts degree 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. The Fine Art: Photography and New Genres award 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 106	Art of the United States: Colonial to Modern Period	3
	<b>or</b>	
ARTF 109	Modern Art	3
	<b>or</b>	
ARTF 110	Art History: Prehistoric to Gothic	3
	<b>or</b>	
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3
ARTF 231	Introduction to Digital Art	3

**Complete the requirements for the photography emphasis:**

ARTF 188	Women and Gender in Photography	3
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

**Total Units = 37**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

# Biology

Award Type	Units
<b>Associate of Science Degree:</b>	
Allied Health Track	21*
Transfer Track	23–24*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Associate in Science for Transfer Degree:</b>	
Biology	34–38

## 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.

## Program Learning Outcomes

**Critical Thinking:** Think critically, developing the skills to ask vital questions and solve biological problems by applying the Scientific Method.

**Communication:** Demonstrate the ability to report and/or explain scientific information appropriately.

**Skills and Technology Applications:** Investigate biological questions using appropriate tools and techniques.

**Environmental Responsibility:** Demonstrate environmental awareness by recognizing the importance of interconnections among living organisms, including people, and their environments.

**Personal Responsibility:** Come prepared for class and complete assigned work thoughtfully.

## Associate of 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	3
<b>and</b>	
CHEM 200L General Chemistry I – Lab	2
CHEM 201 General Chemistry II – Lecture	3
<b>and</b>	
CHEM 201L General Chemistry II – Lab	2
MATH 121 Basic Techniques of Applied Calculus I	3
<b>and</b>	
MATH 122 Basic Techniques of Calculus II	3
<b>or</b>	
MATH 150 Calculus with Analytic Geometry I	5
<b>Total Units = 23–24</b>	

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Biology 100, 101 (City), 110, 115, 120, 130, 180, 200, 205, 215, 230, 235, 290, 296 (City).

## Associate of 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>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Biology 100, 101 (City), 115, 120, 130, 180, 215; Chemistry 130, 130L.

## Associate in Science in Biology for Transfer Degree:

The Associate in Science in Biology for Transfer is intended for students who plan to complete a bachelor's degree in Biology or a related major in the California State University (CSU) system. It is accepted by some, but not all, CSU campuses. 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

**Note:** Students who may wish to apply for transfer to the University of California are strongly urged to

complete the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

### Award Notes:

Students are required to complete 60 semester or 90 quarter CSU transferable units, with a minimum overall grade point average of 2.0, to include the following:

### Major:

- A minimum of 18 semester or 27 quarter units.
- A minimum grade of "C" or better for each course required in the major.

General Education: Complete one of the following general education options:

- The California State University General Education Breadth (CSUGE-B) pattern.
- The Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Electives, as needed, to meet the 60 semester or 90 quarter CSU transferable units required for the degree.

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

### Program Description:

The Associate in Science in Biology for Transfer degree program is designed to prepare students to meet the California State University transfer admission requirements.

### Program Goals:

The purpose of this Associate in Science in Biology for Transfer degree is to offer an organized course of study that will prepare students intending to major in Biology at the California State University.

### Program Emphasis:

The Associate in Science in Biology for Transfer program emphasizes preparation for the major in Biology at the California State University.

### Career Options:

Most careers in this discipline require education beyond the associate degree level. A baccalaureate degree in biology prepares students for careers such as: teaching, research, and advancement into professional graduate programs.

<b>Courses Required for the Major:</b>		<b>Units</b>
BIOL 210A	Introduction to the Biological Sciences I	4
BIOL 210B	Introduction to the Biological Sciences II	4
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
MATH 121	Basic Techniques of Applied Calculus I	3
<b>or</b>		
MATH 150	Calculus with Analytic Geometry I	5
PHYS 125	General Physics	5
<b>and</b>		
PHYS 126	General Physics II	5
<b>or</b>		
PHYS 195	Mechanics	5
<b>and</b>		
PHYS 196	Electricity and Magnetism	5
<b>Select 3-5 units from the following:</b>		
CHEM 231	Organic Chemistry I - Lecture	3
<b>and</b>		
CHEM 231L	Organic Chemistry I - Laboratory	2
<b>or</b>		
MATH 122	Basic Techniques of Calculus II	3
<b>or</b>		
MATH 151	Calculus with Analytic Geometry II	4
<b>Total Units = 34–38</b>		

### 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 of Arts Degree:</b>	
Black Studies	27*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### 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.

### Program 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:** Think critically in reading, writing, and/or speaking about topics in Black Studies, demonstrating knowledge and creativity by completing assignments that enhance research and analytical skills, thereby identifying problems, theses, arguments, evidence and conclusions.
- **Self-Awareness and Interpersonal Skills:** Demonstrate self-definition and an understanding and respect for the perspectives of others, while working effectively with people in group assignments, open discussions, and other activities.
- **Communication:** Write or speak about topics in Black Studies, demonstrating confidence and creativity while participating in a variety of learning opportunities, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.

- **Personal Actions and Civic Responsibility:** Develop consciousness, confidence, and competence in understanding one’s role in society, in taking responsibility for one’s actions, and in making ethical decisions in complex situations; understand that one has the power and ability to make decisions that make a difference on a personal, professional and global level.
- **Technological Awareness:** Demonstrate an enhanced understanding of technology through its application to the completion of required assignments, projects, and presentations.
- **Global Awareness:** Demonstrate an ability to analyze content and context of world cultures by comparing and contrasting how people do the same things in different ways; and, demonstrate an understanding of cultural pluralism.
- **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 of 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, Film and the Media <b>or</b>	
BLAS 155	African American Literature	3

### Select 6 units from the following:

BLAS 111	Cultural Influences on African Art	3
BLAS 140B	History of the U.S., Black Perspectives	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:** BLAS 115 & 135 offered at City College only.

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Black Studies 106, 290, 296; Business 140; Chicana and 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.

**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 of Science Degree:</b> Inspection	28*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## Description

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.

## Career Options

- Building Inspection
- Foreman or Superintendent for Building Construction
- Construction Project Manager

## Program Learning Outcomes

Students who complete the Building Construction Technology Program will be able to:

- **Critical Thinking:** Think critically in a problem/process based curriculum that requires the identification and assembly of appropriate data(input); application of appropriate tools and techniques to the assembled data to produce creative and individual outputs (solutions) to a variety of construction-industry related problems within appropriate ethical, legal (including environmental and workers safety), technological, financial, and time constraints.
- **Communication:** Write about, speak about, and/or graphically articulate proposed solutions to a variety of construction and construction management related problems and be able to defend the process(es) utilized to create these solutions to faculty, visiting critics, clients, and fellow students.

- **Self-Awareness and Interpersonal Skills:** Demonstrate a sense of self-awareness and interpersonal skills while participating in team projects, role-playing, and the exploration of common workplace scenarios.
- **Global Awareness:** Demonstrate knowledge of global issues and an awareness of local, state, national, and international issues and efforts related to construction activities both past and present that include global warming, environmental stewardship, sustainability, embracing diversity, access and affordable and health housing for an increasing world population.

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 55	Construction Plan Reading	3
BLDC 60	Construction Practices I <b>or</b>	
BLDC 61	Construction Practices II	4
BLDC 65	Building Inspection	3
BLDC 68	Electrical, Plumbing, and Mechanical Codes	3
BLDC 70	Building Codes and Zoning	3
BLDC 75	Construction Trades Management I	3
BLDC 80	Construction Project Management and Scheduling	3
ARCH 130	Materials of Construction	3
ARCH 205	Estimating	3
<b>Total Units = 28</b>		

## Associate of Science Degree: Building Construction Technology

### Inspection

Courses Required for the Major:		Units
BLDC 55	Construction Plan Reading	3
BLDC 60	Construction Practices I <b>or</b>	
BLDC 61	Construction Practices II	4
BLDC 65	Building Inspection	3
BLDC 68	Electrical, Plumbing, and Mechanical Codes	3
BLDC 70	Building Codes and Zoning	3
BLDC 75	Construction Management I	3

BLDC 80	Construction Project Management and Scheduling	3
ARCH 130	Materials of Construction	3
ARCH 205	Estimating	3
<b>Total Units = 28</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Construction Management

See "Architecture" on page 163.

# Business Administration

Award Type	Units
<b>Certificate of Achievement:</b>	
Business Administration	30
Small Business Management and Entrepreneurship	18
<b>Associate of Science Degree:</b>	
Business Administration	33*
Small Business Management and Entrepreneurship	45*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Associate in Science for Transfer Degree:</b>	
Business Administration	27

## 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.

## Career Options

Graduates with an associate degree or certificate of achievement in business administration are qualified for entry-and intermediate level positions. Specific career options may include administrative assistant, administrative coordinator, administrative manager, administrative officer, administrative specialist, administrator, business administrator, business manager, director of operations, or office manager.

## Program Learning Outcomes

Students who complete the Business Administration 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 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.
- **Global/Technological Awareness:** Students will be able to identify and understand global business issues.
- **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.

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 115	Statistics for Business <b>or</b>	
MATH 119	Elementary Statistics	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

**Recommended Electives:** Business 120, 129, 190.

## Certificate of Achievement: Small Business Management and Entrepreneurship

The Certificate of Achievement in Small Business Management and Entrepreneurship will assist students in meeting their goals for business education, business start-up and growth. The certificate prepares students for business ownership, including planning, launching, and managing a business. Students develop a broad foundation of principles, while focusing on key industries in which they may operate. Curriculum exposes students to operations, management, finance, marketing, and other skills necessary for sustained success. Entrepreneurship is, by definition, an interdisciplinary practice, and this program is designed to provide students with essential skills that will help them succeed as business owners in their field of choice.

### Goals

The Certificate of Achievement in Small Business Management and Entrepreneurship will assist students in developing key business skills, knowledge and experience while drawing from a variety of disciplines. Students will develop a broad foundation for business success while focusing on key areas of entrepreneurial interest. Students may use these skills and experiences to start, grow, market new and/or existing businesses.

### Objectives:

The objectives for the Certificate in Small Business Management and Entrepreneurship are to:

1. Emphasize a broad foundation in entrepreneurial theory and practice.
2. Prepare students for all stages of business ownership and management, including start-up, growth, and strategic market positioning.
3. Provide students with an understanding of business finances, including financial plans and reports, fiscal management, and investment opportunities.
4. Allow students to focus and collaborate in key areas of interest, including computer science,

culinary arts, digital technology, fashion, finance, and hospitality.

### Emphasis

The Certificate in Small Business Management and Entrepreneurship has room for areas of emphasis that will positively impact key groups of students, including veterans, African-American and Hispanic populations, and women. Many of these groups face bias in the business world, and turn to small business ownership and entrepreneurship as a way of realizing their full potential while putting down roots in their local communities.

### Career Options

Data from Economic Modeling Specialists, distributed by San Diego Workforce Partnership shows high growth categories for small business and entrepreneurs. The following categories show areas of highest economic growth between 2010-2016:

- Pilots, Flight Engineers
- Real Estate Agents, Financial Advisors
- Culinary experts, including chefs and bakers
- Fashion experts, including stylists
- Photographers
- Fitness trainers
- Agricultural experts, including landscaper designers

According to reports from San Diego Workforce Partnership, in conjunction with San Diego and Imperial Counties Community Colleges Association (SDICCCA), five "Priority Sectors" have been identified for workforce development and resources. They are:

- Advanced Manufacturing
- Information & Computer Technology
- Health Care
- Life Sciences
- Clean Energy, including Advanced Transportation

The workforce needs of Small Business in San Diego, identified by San Diego Workforce Partnership, indicate the following business trends:

In San Diego County, 95% of business establishments employ fewer than 50 employees. Small businesses are a primary driving economic force. 90% of all small businesses in San Diego

County fall within the five priority sectors identified above.

In 2015, small businesses in San Diego County, including firms that identified as owner-operated, employed approximately 568,000 workers, with projected growth of 15% in 2016.

<b>Courses Required for the Major:</b>		<b>Units</b>
BUSE 119	Business Communications	3
MARK 100	Principles of Marketing	3
BUSE 129	Introduction to Entrepreneurship	3
BUSE 155	Managing the Small Business	3
ACCT 150	Computer Accounting Applications	3
BUSE 150	Human Relations in Business	3
<b>Total Units = 18</b>		

## Associate of Science Degree: Business Administration

<b>Courses Required for the Major:</b>		<b>Units</b>
BUSE 100	Introduction to Business (recommended as a first semester course)	3
<b>or</b>		
MARK 100	Principles of Marketing	3
BUSE 115	Statistics for Business	3
<b>or</b>		
MATH 119	Elementary Statistics	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
<b>or</b>		
ENGL 105	Composition and Literature	3
<b>Total Units = 33</b>		

**Note:** BUSE 100 is recommended as a first semester course. 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.

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Business 101, 120, 129, 190, 270; Marketing 100.

## Associate of Science Degree: Small Business Management and Entrepreneurship

The Associate of Science Degree in Small Business Management and Entrepreneurship will assist students in meeting their goals for business education, business start-up and growth. The Associate Degree prepares students for business ownership, including planning, launching, and managing a business. Students develop a broad foundation of principles, while focusing on key industries in which they may operate. Curriculum exposes students to operations, management, finance, marketing, and other skills necessary for sustained success. Entrepreneurship is, by definition, an interdisciplinary practice, and this program is designed to provide students with essential skills that will help them succeed as business owners in their field of choice.

### Program Goals

The Associate of Science Degree in Small Business Management and Entrepreneurship will assist students in developing key business skills, knowledge and experience while drawing from a variety of disciplines. Students will develop a broad foundation for business success while focusing on key areas of entrepreneurial interest. Students may use these skills and experiences to start, grow, market new and/or existing businesses.

### Objectives:

The objectives for the Associate Degree in Small Business Management and Entrepreneurship are to:

1. Emphasize a broad foundation in entrepreneurial theory and practice.
2. Prepare students for all stages of business ownership and management, including start-up, growth, and strategic market positioning.
3. Provide students with an understanding of business finances, including financial plans and reports, fiscal management, and investment opportunities.
4. Allow students to focus and collaborate in key areas of interest, including computer science, culinary arts, digital technology, fashion, finance, and hospitality.

## Program Emphasis

The Certificate in Small Business Management and Entrepreneurship has room for areas of emphasis that will positively impact key groups of students, including veterans, African-American and Hispanic populations, and women. Many of these groups face bias in the business world, and turn to small business ownership and entrepreneurship as a way of realizing their full potential while putting down roots in their local communities.

## Career Options

Data from Economic Modeling Specialists, distributed by San Diego Workforce Partnership shows high growth categories for small business and entrepreneurs. The following categories show areas of highest economic growth between 2010-2016:

- Pilots, flight engineers
- Real Estate Agents, Financial Advisors
- Culinary experts, including chefs and bakers
- Fashion experts, including stylists
- Photographers
- Fitness trainers
- Agricultural experts, including landscaper designers

According to reports from San Diego Workforce Partnership, in conjunction with San Diego and Imperial Counties Community Colleges Association (SDICCCA), five "Priority Sectors" have been identified for workforce development and resources. They are:

- Advanced Manufacturing
- Information & Computer Technology
- Health Care
- Life Sciences
- Clean Energy, including Advanced Transportation

The workforce needs of Small Business in San Diego, identified by San Diego Workforce Partnership, indicate the following business trends:

In San Diego County, 95% of business establishments employ fewer than 50 employees. Small businesses are a primary driving economic force. 90% of all small businesses in San Diego County fall within the five priority sectors identified above.

In 2015, small businesses in San Diego County, including firms that identified as owner-operated, employed approximately 568,000 workers, with projected growth of 15% in 2016.

<b>Courses Required for the Major:</b>		<b>Units</b>
BUSE 100	Introduction to Business	3
BUSE 119	Business Communications	3
MARK 100	Principles of Marketing	3
BUSE 155	Managing the Small Business	3
BUSE 150	Human Relations in Business	3
BUSE 140	Business Law and the Legal Environment	3
BUSE 129	Introduction to Entrepreneurship	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
BUSE 115	Statistics for Business	3
MATH 121	Basic Techniques of Applied Calculus I	3
<b>Total Units = 45</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate in Science in Business Administration for Transfer Degree:

The Associate in Science in Business Administration for Transfer Degree is intended for students who plan to complete a bachelor's degree in Business Administration or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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 complete the Business Administration Program will be able to:

- **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 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.
- **Global/Technological Awareness:** Students will be able to identify and understand global business issues.
- **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.

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

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

#### **Award Notes:**

Students are required to complete 60 semester or 90 quarter CSU transferable units, with a minimum overall grade point average of 2.0, to include the following:

#### **Major:**

A minimum of 18 semester units or 27 quarter units

A minimum grade of "C" or better for each course required in the major.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern (CSUGE-B)
- The Intersegmental General Education Transfer Curriculum (IGETC) pattern

Electives, as needed, to meet maximum of 60 semester or 90 quarter CSU transferable units required for the degree

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

<b>Courses Required for the Major:</b>		<b>Units</b>
ACCT 116A	Financial Accounting	4
ACCT 116B	Managerial Accounting	4
ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3
BUSE 140	Business Law and the Legal Environment	3

#### **Category A: Select one of the following courses (3 units):**

BUSE 115	Statistics for Business	3
MATH 119	Elementary Statistics	3
MATH 121	Basic Techniques of Applied Calculus I	3

#### **Category B: Select two (7 units)**

CISC 181	Principles of Information Systems	4
BUSE 119	Business Communications	3

**Total Units = 27**

**Electives as needed to meet maximum 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.**

# Business Management

Award Type	Units
<b>Certificate of Achievement:</b>	
Business Management	34–35
Retail Management	25
<b>Associate of Science Degree:</b>	
Business Management	41–42*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## 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.

## Career Options

Graduates with an associate degree in business management are qualified for entry- and intermediate-level managerial positions in service, industry, manufacturing, government and non-profit organizations. Specific career options include department manager, human resource manager, banking manager and marketing manager.

## Program Learning Outcomes

Students who complete the Business Management 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 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.
- **Global/Technological Awareness:** Students will be able to identify and understand global business issues.
- **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.

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	3
BUSE 101	Business Mathematics	3
BUSE 115	Statistics for Business	3
<b>or</b>		
MATH 119	Elementary Statistics	3
BUSE 119	Business Communications	3
BUSE 140	Business Law and the Legal Environment	3
BUSE 155	Managing the Small Business	3
ACCT 116A	Financial Accounting	4
ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3
MARK 100	Principles of Marketing	3
<b>Select 3-4 units from the following:</b>		
BUSE 120	Principles of Money Management	3
BUSE 127	Social Media for Business	3
BUSE 129	Introduction to Entrepreneurship	3
BUSE 190	Academic and Career Opportunities in Business	1
BUSE 210	Human Resources Management	3
ACCT 116B	Managerial Accounting	4
ACCT 150	Computer Accounting Applications	3
FASH 110	Fashion Buying/Management	3
MARK 105	Professional Selling	3
MARK 110	Principles of Retailing	3
MARK 130	Advertising Principles	3
<b>Total Units = 34–35</b>		

**Note:** BUSE 100 is recommended as a first semester course.

## Certificate of Achievement: Retail Management

The Retail Management Certificate of Achievement assists students in their development of core competencies required for managerial success in the retail industry. Through delivering relevant, practical content that elevates industry skill level, students develop key foundational skills that can be applied immediately. This certificate prepares students to take a leadership role within the organization. Drawing on the expertise of faculty in the School of Business and Technology, students in this program develop educational knowledge and technical competence in key areas of such as human resources and organizational behavior, technology, business communications, management, marketing, human resources, financial management and retail management. This certificate program is certified by the Western Association of Food Chains (WAFC) and is further endorsed by state and national associations such as the Food Marketing Institute (FMI) and the National Grocers Association (NGA).

### Goals

Students who complete a Business Management award 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 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 Awareness and Civic Responsibility:** Students will be able to analyze and accept responsibility for their own actions and make ethical decisions in the business environments.
- **Global/Technological Awareness:** Students will be able to identify and understand global business issues.

### Career Options

Graduates with an award in business management are qualified for entry- and intermediate-level managerial positions in service, industry, manufacturing, government and non-government organizations. Specific career options include store manager, department manager, human resources manager, banking manager and marketing manager.

<b>Courses Required for the Major:</b>		<b>Units</b>
ACCT 116A	Financial Accounting	4
BUSE 119	Business Communications	3
BUSE 150	Human Relations in Business	3
BUSE 201	Business Organization and Management	3
BUSE 210	Human Resources Management	3
CBTE 180	Microsoft Office	3
MARK 100	Principles of Marketing	3
MARK 110	Principles of Retailing	3
<b>Total Units = 25</b>		

## Associate of Science Degree: Business Management

<b>Courses Required for the Major:</b>		<b>Units</b>
BUSE 100	Introduction to Business	3
BUSE 101	Business Mathematics	3
BUSE 115	Statistics for Business	3
<b>or</b>		
MATH 119	Elementary Statistics	3
BUSE 119	Business Communications	3
BUSE 140	Business Law and the Legal Environment	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

### Select 6-7 units from the following:

ACCT 116B	Managerial Accounting	4
ACCT 150	Computer Accounting Applications	3
BUSE 120	Principles of Money Management	3
BUSE 127	Social Media for Business	3
BUSE 129	Introduction to Entrepreneurship	3
BUSE 150	Human Relations in Business	3
BUSE 155	Managing the Small Business	3
BUSE 190	Academic and Career Opportunities in Business	1
BUSE 210	Human Resources Management	3
FASH 110	Fashion Buying/Management	3



MARK 105	Professional Selling	3
MARK 110	Principles of Retailing	3
MARK 130	Advertising Principles	3

**Total Units = 41–42**

**Note:** BUSE 100 is recommended as a first semester course.

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Chemistry

<u>Award Type</u>	<u>Units</u>
<b>Certificate of Achievement:</b>	
Chemistry	35
<b>Associate of Science Degree:</b>	
Chemistry	38*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Description

Upon completion of the required pattern of Chemistry courses and other degree graduation requirements an Associate of 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.

### Program Goals

This program serves the students to transfer to four-year colleges and to acquire the necessary skills for employment as technicians.

## Program 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 Achievement: Chemistry

<u>Courses Required for the Major:</u>	<u>Units</u>
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 Quantitative Analytical Chemistry	5

### Plus 15 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 of Science Degree: Chemistry

<u>Courses Required for the Major:</u>	<u>Units</u>
CHEM 200 <sup>1</sup> 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
CHEM 231	Organic Chemistry I – Lecture	3
CHEM 231L	Organic Chemistry I – Laboratory	2
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4

<sup>1</sup>Placement in Chemistry 200 requires knowledge of basic chemical concepts and calculation. Completion of Chemistry 152/152L or equivalent satisfies the requirement. Equivalency can include but is not limited to passing a challenge exam or AP Credit. To determine equivalency, please see Chemistry Department Chair.

#### Additional Chemistry – Select 5 units from the following:

CHEM 251 <sup>2</sup>	Quantitative Analytical Chemistry	5
<b>or</b>		
CHEM 233 <sup>2</sup>	Organic Chemistry II - Lecture	3
<b>and</b>		
CHEM 233L <sup>2</sup>	Organic Chemistry II - Laboratory	2

<sup>2</sup>Students planning to transfer to a baccalaureate program are strongly urged to contact a counselor and ASSIST to verify required coursework when selecting the Additional CHEM.

#### Physics – Select 5 units from the following:

PHYS 195	Mechanics	5
<b>or</b>		
PHYS 196	Electricity and Magnetism	5
<b>or</b>		
PHYS 197	Waves, Optics and Modern Physics	5

**Total Units = 38**

For other graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives (Mesa College) 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.**

# Chicana and Chicano Studies

Award Type	Units
<b>Associate of Arts Degree:</b>	
Chicana and Chicano Studies	20*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Description

The Department of Chicana and Chicano Studies offers a dynamic, innovative program that emphasizes an interdisciplinary and comparative approach to understanding the historical experiences and contemporary social realities of Chicana/os as the largest segment of the Latino population in the United States. Critical thinking and effective oral and written communication skills are integrated across the curriculum which incorporates the arts and literature, gender studies, border studies, cultural studies, history, the social sciences, and policy studies. Students earning a degree in Chicana and Chicano Studies may pursue careers in education, humanities, law, social work, business, the arts, public administration and more.

### Program Learning Outcomes

Students who complete the Chicana and Chicano Studies Program will be able to:

- **Critical Thinking:** Think critically in reading, writing, and/or speaking about topics in Chicano/a Studies, with a focus on the multiple historical factors that have contributed to the origins of the Chicano/a community in the United States, thereby identifying problems, theses, arguments, evidence and conclusions.
- **Communication:** Write or speak about topics in Chicano/a Studies, with a focus on understanding and communicating the Chicano/a alternative world view as expressed in history, literature and art, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.

- **Personal Actions and Civic Responsibilities:** Demonstrate an ability to understand one's role in society, take responsibility for one's own actions, and make ethical decisions in complex situations.
- **Self-awareness and Interpersonal Skills:** Analyze one's own actions, see others' perspectives, and work effectively with others in groups.
- **Global Awareness:** Analyze the development of the contemporary Chicano/a community in the United States by articulating similarities and contrasts among cultures, times, and environments, and demonstrate an understanding of cultural pluralism.

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

## Associate of Arts Degree: Chicana and Chicano Studies

### Courses Required for the Major: Units

CHIC 110A	Introduction to Chicana and Chicano Studies <b>or</b>	
CHIC 110B	Introduction to Chicano Studies	3
CHIC 135	Chicana/o Literature	3
CHIC 141A	United States History from a Chicano Perspective	3
CHIC 141B	United States History from a Chicano Perspective	3
SPAN 201	Third Course in Spanish <b>or</b>	
SPAN 202	Fourth Course in Spanish <b>or</b>	
SPAN 215	Spanish for Spanish Speakers I <b>or</b>	
SPAN 216	Spanish for Spanish Speakers II	5

### **Select three units from the following:**

CHIC 170	La Chicana <b>or</b>	
CHIC 190	Chicano Images in Film <b>or</b>	
CHIC 210	Chicano Culture <b>or</b>	
CHIC 230	Chicano Art	3

**Total Units = 20**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Chicana and Chicano Studies 130, 138, 150, 201, 290; Art–Fine Art 120; Black Studies 100; History 123, 150, 151; Philosophy 126; Sociology 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

<u>Award Type</u>	<u>Units</u>
<b>Certificate of Performance:</b>	
Assistant Teacher	10–13
Home Day Care	12
<b>Certificate of Achievement:</b>	
Associate Teacher	21–22
Master Teacher	25–27
Teacher	24–25
<b>Associate of Science Degree:</b>	
Child Development	25–26*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## Description

Child Development offers programs for career and transfer students. Certificates of Performance, Certificates of Achievement and an Associate of Science Degree 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, childcare homes and service related agencies. These 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 an Associate of Science Degree, Certificates of Achievement and Performance, and transfer options in the field of Child Development/Early Childhood Education. The **Assistant Teacher** Certificate of Performance prepares students to work in public and private childcare settings. The **Home Day Care** Certificate of Performance provides student with skills and knowledge for childcare in family settings. The **Associate Teacher, Teacher,** and **Master Teacher** Certificates of Achievement, prepare students for higher levels of instructional positions and meet the requirements for the State of California Child Development Permits. The **Child Development Associate in Science Degree** prepares students for positions as teacher, master teacher and director in the field of Child Development/Early Childhood Education.

### Program 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 of Performance prepares students to assist in the instruction of children under the supervision of an Associate Teacher or higher instructor.

Courses:		Units
CHIL 101	Human Growth and Development	3
CHIL 180	Nutrition, Health and Safety for Children	3

#### Select one course from:

CHIL 111	Curriculum: Music and Movement	3
CHIL 121	Curriculum: Art	3
CHIL 131	Curriculum: Language/Science	3
CHIL 141	The Child, Family and Community	3

#### Select one course from:

CHIL 160	Observing and Understanding Children	2
CHIL 161	Observations and Issues in Child Development	2
CHIL 270	Work Experience	1–4
CHIL 291A	Child Development Center Practicum	1
CHIL 291B	Child Development Center Practicum	1
CHIL 291C	Child Development Center Practicum	1
CHIL 291D	Child Development Center Practicum	1

**Total Units = 10–13**

**Recommended Electives:** Child Development 160, 161, 270, 291A, 291B, 291C, 291D.

**Note:** This program is not eligible for federal financial aid in accordance with Federal regulations.

#### Certificate of Performance: Home Day Care\*

This Certificate of Performance prepares students for entry level positions as home day care providers.

Courses:		Units
CHIL 101	Human Growth and Development	3
CHIL 175	Infant–Toddler Growth and Development	3

CHIL 180	Nutrition, Health and Safety for Children	3
BUSE 101	Business Mathematics	3

**Total Units = 12**

**One or more of the following courses is recommended to gain experience and credits required for higher level permits.**

**Recommended Electives:** Child Development 160, 161, 270, 291A, 291B, 291C, 291D.

**Note:** This program is not eligible for federal financial aid in accordance with Federal regulations.

## 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.

<b>Courses Required for the Major:</b>		<b>Units</b>
CHIL 101	Human Growth and Development	3
CHIL 141	The Child, Family and Community	3
CHIL 151	Program Planning	3
CHIL 180	Nutrition, Health and Safety for Children	3

#### Select two courses from:

CHIL 111	Curriculum: Music and Movement	3
CHIL 121	Curriculum: Art	3
CHIL 131	Curriculum: Language/Science	3

#### Select three or more units from:

CHIL 160	Observing and Understanding Children	2
CHIL 161	Observations & Issues in Child Development	2
CHIL 270	Work Experience	1-4
CHIL 291A	Child Development Center Practicum	1
CHIL 291B	Child Development Center Practicum	1
CHIL 291C	Child Development Center Practicum	1
CHIL 291D	Child Development Center Practicum	1

**Total Units = 21-22**

## Certificate of Achievement: Child Development

### Teacher

This certificate prepares students to provide instruction to children and supervise Assistant and Associate Teachers.

<b>Courses Required for the Major:</b>		<b>Units</b>
CHIL 101	Human Growth and Development	3
CHIL 111	Curriculum: Music and Movement	3
CHIL 121	Curriculum: 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 and Safety for Children	3

#### Select one of the following three options:

CHIL 165	Children With Special Needs <b>or</b>	
CHIL 175	Infant-Toddler Growth and Development <b>or</b>	3
CHIL 160	Observing and Understanding Children <b>and</b>	2
CHIL 161	Observations and Issues in Child Development	2

**Total Units = 24-25**

## Certificate of Achievement: Child Development

### Master Teacher

This Certificate of Achievement prepares students to provide instruction to children and provide supervision of Assistant Teachers, Associate Teachers and Teachers. It also prepares students to coordinate curriculum and staff development in the field of Child Development/Early Childhood Education.

<b>Courses Required for the Major:</b>		<b>Units</b>
CHIL 101	Human Growth and Development	3
CHIL 111	Curriculum: Music and Movement	3
CHIL 121	Curriculum: 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

#### Select one of the following Specializations:

##### Guiding Young Children/Family Life

CHIL 160	Observing & Understanding Children	2
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CHIL 161	Observations & Issues in Child Development	2
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**Special Needs**

CHIL 165	Children with Special Needs	3
CHIL 166	Curriculum for Diverse Learners	3

**Infant/Toddler**

CHIL 175	Infant–Toddler Growth and Development	3
CHIL 176	Principles of Infant-Toddler Caregiving	3

**Total Units = 25–27**

**Associate of 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**

		Units
CHIL 101	Human Growth and Development	3
CHIL 111	Curriculum: Music and Movement	3
CHIL 121	Curriculum: Art	3
CHIL 131	Curriculum: Language/Science	3
CHIL 141	The Child, Family and Community	3
CHIL 151	Program Planning	3
CHIL 160	Observing and Understanding Children	2
CHIL 180	Nutrition, Health and Safety for Children	3

**Select one of the following three options:**

CHIL 161	Observations & Issues in Child Development	2
<b>or</b>		
CHIL 165	Children with Special Needs	<b>or</b>
CHIL 175	Infant–Toddler Growth and Development	3

**Total Units = 25–26**

**Recommended Electives:** Child Development 160, 161, 165, 166, 175, 176, 202, 210, 270, 290, 291A, 291B, 291C, 291D.

**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
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<b>Associate of Arts Degree:</b>	
Communication Studies	18*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

<b>Associate in Arts for Transfer Degree:</b>	
Communication Studies	18

**Description**

This program is designed to offer the Associate of 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.

## Program 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.

## Associate of Arts Degree: Communication Studies

The Associate of 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.

<b>Courses Required for the Major:</b>		<b>Units</b>
COMS 103	Oral Communication	3

### Select 15 units from:

COMS 101	Voice and Articulation	3
COMS 104	Advanced Public Communication	3
COMS 111	Oral Interpretation	3
COMS 117A	Intercollegiate Forensics	1-3
COMS 117B	Intercollegiate Forensics	1-3
COMS 117C	Intercollegiate Forensics	1-3
COMS 117D	Intercollegiate Forensics	1-3
COMS 135	Interpersonal Communication	3
COMS 160	Argumentation	3
COMS 170	Small Group Communication	3
COMS 180	Intercultural Communication	3
COMS 290	Independent Study	1-3

**Total Units = 18**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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.

## Associate in Arts in Communication Studies for Transfer Degree:

The Associate in Arts in Communication Studies for Transfer Degree is intended for students who plan to complete a bachelor's degree in Communication Studies or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

### Program Learning Outcomes:

Students who complete the Communication Studies for Transfer 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

**Award Notes:**

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of “C” or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

<b>Courses Required for the Major:</b>	<b>Units</b>
COMS 103 Oral Communication	3

**Category A: Select two of the following courses (6 units):**

COMS 135 Interpersonal Communication	3
COMS 160 Argumentation	3
COMS 170 Small Group Communication	3

**Category B: Select two of the following courses, or any course not selected in Category A (6 units):**

COMS 104 Advanced Public Communication	3
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COMS 111 Oral Interpretation	3
COMS 180 Intercultural Communication	3

**Category C: Select one of the following courses, or any course not selected in Category A or B (3 units):**

ENGL 101 Reading and Composition	3
ENGL 105 Composition and Literature	3
ENGL 205 Critical Thinking and Intermediate Composition	3
ENGL 210 American Literature I	3
ENGL 211 American Literature II	3
ENGL 215 English Literature I: 800 – 1799	3
HIST 105 Introduction to Western Civilization I	3
HIST 106 Introduction to Western Civilization II	3
JOUR 200 Introduction to Newswriting and Reporting	3
JOUR 201 Advanced Newswriting and Reporting	3
JOUR 210A Newspaper Production 1	2–3
JOUR 220 Principles of Public Relations	3
PSYC 112 Interpersonal Relations	3
MATH 119 Elementary Statistics <b>or</b>	
PSYC 258 Behavioral Science Statistics	3

**Total Units = 18**

**Electives as needed to meet maximum 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.**

**Computer Aided Design/Drafting**

See “Architecture” on page 163.



# Computer Business Technology

Award Type	Units
<b>Certificate of Achievement:</b> Business Information Worker I	16-17
<b>Associate of Science Degree:</b> Administrative Assistant	29*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## Description

Computers and web technologies are ubiquitous in the majority of businesses and industries. Computer Business Technology is a versatile field that offers employment opportunities in a variety of business settings. The Computer Business Technology Associate Degree and Certificate programs are designed to prepare students for positions as working professionals with the opportunity to enhance and modernize their skills in computer technologies, information records management, desktop publishing and computer-related office skills.

## Career Options

Administrative Assistant, Office Manager, Office Clerk, Word Processor, Records Information Management, Customer Service Representative, Receptionist, Records Clerk, Cashier, and Business Computer Applications.

## Program 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 Achievement: Computer Business Technology Business Information Worker I

This certificate prepares students for a broad range of entry-level office and administrative support positions in a variety of business environments.

### Goals

The goal of the Business Information Worker I (BIW I) Certificate of Achievement is to prepare students for entry-level office and administrative support in the following areas: basic oral and written communications; basic computer applications skills, including beginning Word, Excel, and Outlook; the fundamentals of computer systems; as well as critical thinking, problem solving, and interpersonal skills.

### Emphasis

The emphasis of the Business Information Worker I Certificate of Achievement is to prepare students in a broad range of entry-level office skills and applications that will be the foundation for further on-the-job training in specific work environments.

### Career Options

Three job titles graduates of this certificate would be qualified for are: Receptionist/Information Clerk, Secretary/Administrative Assistant (except Legal, Medical, and Executive), and General Office Clerk.

Courses Required for the Major:		Units
BUSE 119	Business Communications	3
BUSE 150	Human Relations in Business	3
CBTE 101	Basic Computer Keyboarding	1
CBTE 114	Introduction to Microsoft Windows	1
CBTE 120	Beginning Microsoft Word	2
CBTE 140	Beginning Microsoft Excel	2
CBTE 164	Introduction to Microsoft Outlook	1
CISC 150	Introduction to Computer and Information Sciences	3
<b>or</b>		
CISC 181	Principles of Information Systems	4
		<b>Total Units = 16-17</b>

## Associate of Science Degree: Administrative Assistant

The Administrative Assistant Associate Degree prepares students for employment in the private and public sector as an administrative assistant, an executive assistant, a receptionist, a records clerk, a customer service representative assistant, a general office clerk, a human resources assistant, and a data entry clerk.

<b>Courses Required for the Major:</b>		<b>Units</b>
CBTE 101	Basic Computer Keyboarding	1
CBTE 114	Introduction to Microsoft Windows	1
CBTE 120	Beginning Microsoft Word	2
CBTE 122	Intermediate Microsoft Word	3
CBTE 127	Beginning Microsoft PowerPoint	2
CBTE 128	Intermediate Microsoft PowerPoint	3
CBTE 140	Beginning Microsoft Excel	2
CBTE 143	Intermediate Microsoft Excel	3
CBTE 152	Beginning Microsoft Access	2
CBTE 164	Introduction to Microsoft Outlook	1
CBTE 206	Electronic Records Management	3
CBTE 211	Office Administration	3
BUSE 119	Business Communications	3

**Total Units = 29**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

# Computer and Information Sciences

<b>Award Type</b>	<b>Units</b>
<b>Certificate of Performance:</b>	
Computer Programming	15
<b>Certificate of Achievement:</b>	
Computer and Information Sciences	31-32
<b>Associate of Science Degree:</b>	
Computer and Information Sciences	31-32*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Associate in Science for Transfer Degree:</b>	
Computer Science	33

## 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.

## Program 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.

<b>Courses:</b>	<b>Units</b>
CISC 186 Visual Basic Programming	4
CISC 190 Java Programming	4
CISC 192 C/C++ Programming	4
CISC 210 System Analysis and Design	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.

**Note:** This program is not eligible for federal financial aid in accordance with Federal regulations.

## 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 and 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

### Select 3–4 units from the following:

CISC 71 Microcontroller Programming	4
CISC 150 Introduction to Computer and Information Sciences	3
CISC 179 Python Programming	4
CISC 270 Work Experience	1–4
CISC 290 Independent Study	1–3
MARK 105 Professional Selling	3

**Total Units = 31–32**

## Associate of 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 in the Academic Requirements section of the 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 and 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

### Select 3–4 units from the following:

CISC 71 Microcontroller Programming	4
CISC 150 Introduction to Computer and Information Sciences	3
CISC 179 Python Programming	4
CISC 270 Work Experience	1–4
CISC 290 Independent Study	1–3
MARK 105 Professional Selling	3

**Total Units = 31–32**

\*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.

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate in Science in Computer Science for Transfer Degree:

The Associate in Science in Computer Science for Transfer is intended for students who plan to complete a bachelor's degree in Computer Science or a related major in the California State University (CSU) system. It is accepted by some, but not all CSU campuses. 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

### Award Notes:

Students are required to complete 60 semester or 90 quarter CSU transferable units, with a minimum overall grade point average of 2.0, to include the following:

### Major:

- A minimum of 18 semester or 27 quarter units.
- A minimum grade of "C" or better for each course required in the major.

**General Education:** Complete one of the following general education options:

- The California State University General Education Breadth (CSUGE-B) pattern
- The Intersegmental General Education Transfer Curriculum (IGETC) pattern

Electives, as needed, to meet the 60 semester or 90 quarter CSU transferable units required for the degree.

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

<b>Courses Required for the Major:</b>		<b>Units</b>
CISC 190	Java Programming	4
CISC 191	Intermediate Java Programming	4
CISC 211	Computer Organization and Assembly Language	4
CISC 246	Discrete Mathematics for Computer Science	3
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
PHYS 195	Mechanics	5
BIOL 210B	Introduction to the Biological Sciences II	4
<b>Total Units = 33</b>		

**Electives as needed to meet maximum 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.**

# Culinary Arts/ Culinary Management

Award Type	Units
<b>Certificate of Achievement:</b> Culinary Arts/Culinary Management in Hospitality	31
<b>Associate of Science Degree:</b> Culinary Arts/Culinary Management in Hospitality	48*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## 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.

## Program 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 explain the relationship between purchasing, receiving, storage, production and cost of goods sold.

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 and 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 292	Culinary Practicum	2

**Total Units = 31**

## Associate of Science Degree: Culinary Arts/Culinary Management in Hospitality

<b>Courses Required for the Major:</b>		<b>Units</b>
HOSP 101	Introduction to Hospitality & Tourism	3
HOSP 115	Strategic Leadership in Hospitality	3
HOSP 152	Hospitality Human Resources	2
CACM 101	Sanitation, Safety, and Equipment	3
CACM 105	Fundamentals of Food Production Theory	3
CACM 110	Fundamentals of Cooking and Service	4
CACM 120	Menu Analysis and 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 292	Culinary Practicum	2
NUTR 150	Nutrition	3

### Select one course from the following:

CACM 211	Advanced Baking and Pastry	3
<b>or</b>		
NUTR 153	Cultural Foods	3

**Total Units = 48**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

## 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

<b>Award Type</b>	<b>Units</b>
<b>Certificate of Performance:</b>	
Dance	15.5
<b>Certificate of Achievement:</b>	
Commercial Dance	23–26.5
Choreography	22
<b>Associate of Arts Degree:</b>	
Dance	26*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## 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.

## 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.

### Program Learning Outcomes

Students who complete the Dance Program will be able to:

- **Communication:** Students will be able to identify, compare, contrast and evaluate theatrical forms of dance in a socio-historical context as an artistic, political or ideological medium of communication.
- **Critical Thinking:** Identify, analyze, assess and perform dance combinations and choreography.
- **Professional Behavior:** Identify specified line, design, technique and vocabulary as well as rhythmic, dynamic and emotional concepts for a wide variety of movement.

### 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 History of Dance	3
DANC 183 Music for Dance	2
DANC 253 Choreography	2

#### Select 2 units from the following:

DANC 261A Dance Performance I	2
DANC 261B Dance Performance II	2
DANC 261C Dance Performance III	2
DANC 261D Dance Performance IV	2

#### Select 3 units from the following courses:

DANC 110C Ballet III	1.5
DANC 110D Ballet IV	1.5
DANC 135C Jazz Dance III	1.5
DANC 135D Jazz Dance IV	1.5
DANC 140C Modern Dance III	1.5
DANC 140D Modern Dance IV	1.5

#### Select 3.5 units from the following:

DANC 110A Ballet I	1-1.5
DANC 110B Ballet II	1.5
DANC 110C Ballet III	1.5
DANC 110D Ballet IV	1.5
DANC 115A Tap I	1-1.5
DANC 115B Tap Dance II	1-1.5
DANC 115C Tap Dance III	1-1.5
DANC 115D Tap Dance IV	1-1.5
DANC 120A Hip Hop I	1-1.5
DANC 120B Hip Hop II	1.5
DANC 120C Hip Hop III	1.5
DANC 120D Hip Hop IV	1.5
DANC 125A Latin American Dance I	1-1.5
DANC 125B Latin American Dance II	1-1.5
DANC 126A Mid-Eastern Dance I	0.5-1
DANC 126B Mid-Eastern Dance II	0.5-1
DANC 127 Movement for Wellness	2
DANC 130A Dance Repertoire	1
DANC 135A Jazz Dance I	1-1.5
DANC 135B Jazz Dance II	1.5
DANC 135C Jazz Dance III	1.5
DANC 135D Jazz Dance IV	1.5
DANC 140A Modern Dance I	1-1.5
DANC 140B Modern Dance II	1.5
DANC 140C Modern Dance III	1.5
DANC 140D Modern Dance IV	1.5
DANC 145A Ballroom Dance I	1-1.5
DANC 145B Ballroom Dance II	1-1.5
DANC 160A Pilates - Stretch and Conditioning	1-1.5
DANC 160B Pilates - Alignment and Correctives	1-1.5
DANC 178A Advanced Commercial Dance I	1.5
DANC 178B Advanced Commercial Dance II	1.5
DANC 179A Advanced Classical Dance I	1.5
DANC 179B Advanced Classical Dance II	1.5
DANC 180A Advanced Contemporary Dance I	1.5
DANC 180B Advanced Contemporary Dance II	1.5

**Total Units = 15.5**

\*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.

**Note:** This program is not eligible for federal financial aid in accordance with Federal regulations.

### Certificate of Achievement: Commercial Dance

The Certificate of Achievement in Commercial Dance is designed for students seeking professional dance opportunities in the entertainment field. This comprehensive program trains the students in a

variety of dance techniques coupled with vocal music and acting courses.

<b>Courses Required for the Major:</b>	<b>Units</b>
DANC 110C Ballet III	1.5
DANC 110D Ballet IV	1.5
DANC 135C Jazz Dance III	1.5
DANC 135D Jazz Dance IV	1.5
DANC 140C Modern Dance III	1.5
DANC 178A Advanced Commercial Dance I	1.5
DANC 181 History of Dance	3
DRAM 103 Acting for Non-majors	3
MUSI 120 Voice Class I	2

**Select one of the following courses:**

DANC 261A Dance Performance I	2
DANC 261B Dance Performance II	2
DANC 261C Dance Performance III	2
DANC 261D Dance Performance IV	2

**Select two of the following courses:**

DANC 125A Latin American Dance I	1–1.5
DANC 125B Latin American Dance II	1–1.5
DANC 126A Mid-Eastern Dance I	0.5–1
DANC 126B Mid-Eastern Dance II	0.5–1
DANC 145A Ballroom Dance I	1–1.5
DANC 145B Ballroom Dance II	1–1.5

**Select one of the following courses:**

DANC 115A Tap I	1–1.5
DANC 115B Tap Dance II	1–1.5
DANC 115C Tap Dance III	1–1.5

**Select one of the following courses:**

DANC 120A Hip Hop I	1–1.5
DANC 120B Hip Hop II	1.5
DANC 120C Hip Hop III	1.5
DANC 120D Hip Hop IV	1.5

**Select one of the following courses:**

DANC 160A Pilates - Stretch and Conditioning	1–1.5
DANC 160B Pilates - Alignment and Correctives	1–1.5

**Total Units = 23–26.5**

## Certificate of Achievement: Choreography

The Certificate of Achievement in Choreography is designed to for students interested in a career as a choreographer.

<b>Courses Required for the Major:</b>	<b>Units</b>
DANC 183 Music for Dance	2
DANC 253 Choreography	2

**Select 4 units from the following:**

DANC 261A Dance Performance I	2
DANC 261B Dance Performance II	2
DANC 261C Dance Performance III	2
DANC 261D Dance Performance IV	2

**Select 2 units from the following:**

DANC 150A Dance Making: Ballet	1
DANC 151A Dance Making: Jazz	1
DANC 152A Dance Making: Modern	1
DANC 153A Dance Making: Dance Theatre	1

**Select 2 units from the following:**

DANC 271A Stage Costuming for Dance	1–2
DANC 271B Makeup for Dance Productions	1–2
DANC 271C Lighting Design for Dance Production	1–2

**Select 10 units from the following:**

DANC 110B Ballet II	1.5
DANC 110C Ballet III	1.5
DANC 110D Ballet IV	1.5
DANC 115B Tap Dance II	1–1.5
DANC 115C Tap Dance III	1–1.5
DANC 115D Tap Dance IV	1–1.5
DANC 120B Hip Hop II	1.5
DANC 120C Hip Hop III	1.5
DANC 120D Hip Hop IV	1.5
DANC 135B Jazz Dance II	1.5
DANC 135C Jazz Dance III	1.5
DANC 135D Jazz Dance IV	1.5
DANC 140B Modern Dance II	1.5
DANC 140C Modern Dance III	1.5
DANC 140D Modern Dance IV	1.5
DANC 177A Dance Improvisation	1–1.5
DANC 177B Dance Improvisation II	1–1.5
DANC 178A Advanced Commercial Dance I	1.5
DANC 178B Advanced Commercial Dance II	1.5
DANC 179A Advanced Classical Dance I	1.5
DANC 179B Advanced Classical Dance II	1.5
DANC 180A Advanced Contemporary Dance I	1.5
DANC 180B Advanced Contemporary Dance II	1.5

**Total Units = 22**

## Associate of Arts Degree: Dance

The associate degree in Dance is designed for students who are preparing to audition for admission into a dance program at a four-year institution or for those wanting to pursue dance as a career.

<b>Courses Required for the Major:</b>	<b>Units</b>
DANC 181 History of Dance	3



DANC 183	Music for Dance	2
DANC 253	Choreography	2

**Select 3 units from the following courses:**

DANC 110B	Ballet II	1.5
DANC 110C	Ballet III	1.5
DANC 110D	Ballet IV	1.5

**Select 3 units from the following courses:**

DANC 135B	Jazz Dance II	1.5
DANC 135C	Jazz Dance III	1.5
DANC 135D	Jazz Dance IV	1.5

**Select 3 units from the following courses:**

DANC 140B	Modern Dance II	1.5
DANC 140C	Modern Dance III	1.5
DANC 140D	Modern Dance IV	1.5

**Select 1.5 Units from the following courses:**

DANC 160A	Pilates - Stretch and Conditioning	1-1.5
DANC 160B	Pilates - Alignment and Correctives	1-1.5

**Select 1.5 Units from the following courses:**

DANC 177A	Dance Improvisation	1-1.5
DANC 177B	Dance Improvisation II	1-1.5

**Select 4 units from the following courses:**

DANC 261A	Dance Performance I	2
DANC 261B	Dance Performance II	2
DANC 261C	Dance Performance III	2
DANC 261D	Dance Performance IV	2
DANC 271A	Stage Costuming for Dance	1-2
DANC 271B	Makeup for Dance Productions	1-2
DANC 271C	Lighting Design for Dance Production	1-2

**Select 3 units from the following courses:**

DANC 110A	Ballet I	1-1.5
DANC 115A	Tap I	1-1.5
DANC 115B	Tap Dance II	1-1.5
DANC 115C	Tap Dance III	1-1.5
DANC 120A	Hip Hop I	1-1.5
DANC 120B	Hip Hop II	1.5
DANC 120C	Hip Hop III	1.5
DANC 120D	Hip Hop IV	1.5
DANC 125A	Latin American Dance I	1-1.5
DANC 125B	Latin American Dance II	1-1.5
DANC 126A	Mid-Eastern Dance I	0.5-1
DANC 126B	Mid-Eastern Dance II	0.5-1
DANC 130A	Dance Repertoire	1
DANC 135A	Jazz Dance I	1-1.5
DANC 140A	Modern Dance I	1-1.5
DANC 145A	Ballroom Dance I	1-1.5
DANC 145B	Ballroom Dance II	1-1.5
DANC 178A	Advanced Commercial Dance I	1.5
DANC 178B	Advanced Commercial Dance II	1.5

DANC 179A	Advanced Classical Dance I	1.5
DANC 179B	Advanced Classical Dance II	1.5
DANC 180A	Advanced Contemporary Dance I	1.5
DANC 180B	Advanced Contemporary Dance II	1.5

**Total Units = 26**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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.**

**Dental Assisting (RDA, CDA)**

Award Type	Units
<b>Certificate of Achievement:</b>	
Dental Assisting (RDA,CDA)	37
<b>Associate of Science Degree:</b>	
Dental Assisting (RDA,CDA)	37*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

**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 supportive 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 polishing; 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. Upon completion of the program the student is awarded a Certificate of Achievement from the college and may complete an Associate degree with additional coursework. Students will receive a Radiation Safety Certificate to operate dental x-ray equipment in the State of California. Proof of completion in Coronal Polishing, Dental Sealants, Infection Control and the California Dental Practice Act 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 Board and the Certified Dental Assistant (CDA) National written examination.

Students must maintain a grade of "C" (75%) or higher 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.

Eligibility for enrollment in this program is determined by a special admission procedure. Interested persons should review program information at <http://www.sdmesa.edu/academics/schools-departments/allied-health/>.

### **Directed Clinical Practice (DCP) 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 the 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.

### **Dental Assisting Mission Statement**

The Dental Assisting Program at San Diego Mesa College provides dental assisting students the knowledge and skills to succeed as a dental health care professional. As a State and Nationally accredited program, we promote learning, leading to licensure and credentialing in dental assisting. By providing quality education to our diverse students, we contribute to the regional dental workforce, which provides access to care and dental health in San Diego County.

### **Program Goals**

The Dental Assisting Program is committed to:

1. Keeping current with the state-of-the-art dental equipment and techniques;
2. Providing dental assisting students currency for employment;
3. Promoting safe, ethical, and quality patient care;
4. Developing or enhancing the student's critical thinking, time-management, problem solving and communication skills.

### **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 2016-2020, 80 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 shortage of qualified dental assistants.

## Program Learning Outcomes

- Perform skills and apply knowledge of dental assisting to work as a chairside assistant and administrative assistant.
- Obtain licensure and certifications applicable to dental assisting.
- Conduct themselves as legal and ethical dental professionals within the scope of practice for dental assistants.
- Communicate effectively, both verbally and in writing, as appropriate for a dental healthcare worker.
- Promote positive change in the community through volunteering.

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
DENA 50	Dental Communications	3
DENA 56	Basic Dental Science	3.5
DENA 58	Preventive Dental Care	1.5
DENA 58L	Preventive Dental Care Lab	0.5
DENA 117	Dental Materials	2.5
DENA 117L	Dental Materials Lab	1
DENA 54	Basic Dental Assisting	2
DENA 54L	Basic Dental Assisting Lab	2
DENA 83A	Directed Clinical Practice	1.5
DENA 129	Dental Radiology I	2.5
DENA 129L	Dental Radiography Lab	0.5
DENA 60	Clinical Business Management	1.5
DENA 60L	Clinical Business Management Lab	1
DENA 139	Dental Radiography II	0.5
DENA 62	Dental Specialties I	2.5
DENA 62L	Dental Specialties I Laboratory	2
DENA 82	Dental Specialties II	2.5
DENA 82L	Dental Specialties II Lab	2
DENA 83B	Directed Clinical Practice	4.5
<b>Total Units = 37</b>		

## Associate of Science Degree: Dental Assisting (RDA,CDA)

Courses Required for the Major:		Units
DENA 50	Dental Communications	3
DENA 56	Basic Dental Science	3.5
DENA 58	Preventive Dental Care	1.5

DENA 58L	Preventive Dental Care Lab	0.5
DENA 117	Dental Materials	2.5
DENA 117L	Dental Materials – Lab	1
DENA 54	Basic Dental Assisting	2
DENA 54L	Basic Dental Assisting Lab	2
DENA 83A	Directed Clinical Practice	1.5
DENA 129	Dental Radiology I	2.5
DENA 129L	Dental Radiography Lab	0.5
DENA 60	Clinical Business Management	1.5
DENA 60L	Clinical Business Management Lab	1
DENA 139	Dental Radiography II	0.5
DENA 62	Dental Specialties I	2.5
DENA 62L	Dental Specialties I Laboratory	2
DENA 82	Dental Specialties II	2.5
DENA 82L	Dental Specialties II Lab	2
DENA 83B	Directed Clinical Practice	4.5
<b>Total Units = 37</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Dramatic Arts

Award Type	Units
<b>Certificate of Achievement:</b> Performance	19–21
<b>Associate of Arts Degree:</b> Dramatic Arts	35–39*
<b>Associate in Arts for Transfer Degree:</b> Theatre Arts	18

### Description

The Dramatic Arts Program provides students with both the theory and practical experience necessary for either employment in beginning levels of professional theatre or transfer to a four-year institution. Unique to Mesa College is the Mesa College Theatre Company (MCTC), a two-year comprehensive training program that encompasses study in the areas of acting, design, technical theatre, marketing and management. Through MCTC, the Department provides practical, hands-on production experience combined with formal instruction to offer a comprehensive introduction to

students interested in the study and creation of the dramatic arts.

The Associate of Arts Degree in Dramatic Arts requires participation in the Mesa College Theatre Company. This experience offers students the opportunity to explore, in depth, the various aspects of the discipline. Students are encouraged to experience all of the craft areas utilized in the presentation of a play through various activities, providing students with a broad range of practical training. Successful completion of the AA Degree in Dramatic Arts prepares students for transfer with both the theory and practical experience necessary for either entry-level employment in the entertainment industry or transfer to a four-year institution.

The Associate in Arts in Theatre Arts for Transfer (AA-T) prepares students to transfer into the CSU system to complete a baccalaureate degree in Theatre Arts or a similar major. Various production opportunities are offered to provide students with a broad range of practical training. Successful completion of the Transfer Degree in Theatre Arts guarantees student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree.

The Performance Certificate of Achievement provides comprehensive training for students interested in the craft of acting within the discipline of Dramatic Arts. Students will focus study on developing the physical and vocal tools necessary to the actor as well as the techniques necessary for success in the profession. Curriculum promotes skills in play script analysis, acting technique, physical and vocal exploration, audition technique, and rehearsal and performance practice. This program is designed to provide students with the essential skills that will help them succeed in the field of acting for theatre, film and television.

### Program Goals

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 prepares 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 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 aid them in whatever career path they choose.

### Program Learning Outcomes

Students who complete the Dramatic Arts Program will be able to:

- Analyze and articulate the ideas and questions posited by the experience and study of theatre and film.
- Students expand their knowledge of the world and society through the engagement of dramatic arts.
- Students contribute effectively in the creative collaborative process.

### Certificate of Achievement: Performance

Courses Required for the Major:		Units
DRAM 112	Introduction to Script Analysis	3
DRAM 124	Makeup for the Stage	3
DRAM 132	Beginning Acting	3
DRAM 268	Experimental Theatre	1-3

#### Choose nine units from the following:

DRAM 070	Digital Video Production for the Dramatic Arts	3
DRAM 119	Acting for Film and Television	3
DRAM 133	Intermediate Acting	3
DRAM 134	Beginning Voice for Actors	3
DRAM 165	Introduction to Stage Movement	3

**Total Units = 19-21**

## Associate of 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 104A Theatre Company Performance I	1–2
DRAM 104B Theatre Company Performance II	1–2
DRAM 112 Introduction to Script Analysis	3
DRAM 124 Makeup for the Stage	3
DRAM 200A Fundamentals of Performance and Production III	4
DRAM 200B Fundamentals of Performance and Production IV	4
DRAM 204A Theatre Company Performance III	1–2
DRAM 204B Theatre Company Performance IV	1–2

### Choose six units from the following:

DRAM 70 Digital Video Production for the Dramatic Arts	3
DRAM 71 Digital Video Production for the Dramatic Arts II	3
DRAM 106 Acting for Radio/Voice-Over	3
DRAM 109 Theatre and Social Issues	3
DRAM 123 Beginning Stagecraft	3
DRAM 127 Sound For Theatre	2
DRAM 128 Stage Lighting Design	3
DRAM 129A Beginning Scene Painting	3
DRAM 132 Beginning Acting	3
DRAM 133 Intermediate Acting	3
DRAM 134 Beginning Voice for Actors	3

DRAM 136 History of Canonized Theatre – Ancient Greece to the Restoration	3
DRAM 137 History of Canonized Western Theatre – Restoration to the Present	3
DRAM 143 Beginning Costuming	3
DRAM 165 Introduction to Stage Movement	3
DRAM 235 Literature to Life – A Scene Study Course	2
DRAM 268 Experimental Theatre	1–3
DRAM 290 Independent Study	1–3

**Total Units = 35–39**

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 106.

**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.**

### Associate in Arts in Theatre Arts for Transfer Degree:

The Associate in Arts for Transfer in Theatre Arts is intended for students who plan to complete a bachelor's degree in Theatre Arts or a related major

in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

#### Award Notes:

Students are required to complete 60 semester or 90 quarter CSU transferable units with a minimum overall grade point average of 2.0, to include the following:

#### Major:

- A minimum of 18 semester or 27 quarter units
- A minimum grade of "C" or better for each course required in the major.

**General Education:** Complete one of the following general education options:

- The California State University General Education Breadth (CSUGE-B) pattern
- The Intersegmental General Education Transfer Curriculum (IGETC) pattern

Electives, as needed, to meet the 60 semester or 90 quarter CSU-transferable units required for the degree.

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

#### Program Goals:

The purpose of this Associate in Arts degree program in Theatre Arts is to offer an organized course of study that will prepare students intending to major in Theatre Arts at the California State University.

#### Program Emphasis:

The Theatre Arts Associate in Arts for Transfer program emphasizes preparation for the major in Theatre Arts at the California State University.

<b>Courses Required for the Major:</b>	<b>Units</b>
DRAM 105 Introduction to Dramatic Arts	3

DRAM 132 Beginning Acting	3
DRAM 104A Theatre Company Performance I	1-2
<b>and</b>	
DRAM 104B Theatre Company Performance II	1-2
<b>and</b>	
DRAM 204A Theatre Company Performance III	1-2

**Note:** One unit each is the maximum allowed for DRAM 104A, DRAM 104B, and 204A.

#### Category A courses: (9 units)

DRAM 112 Introduction to Script Analysis	3
DRAM 124 Makeup for the Stage	3
DRAM 133 Intermediate Acting	3

**Total Units = 18**

## Economics

<b>Award Type</b>	<b>Units</b>
<b>Associate in Arts for Transfer Degree:</b>	
Economics	18-23

### Associate in Arts in Economics for Transfer Degree:

The Associate in Arts in Economics for Transfer is intended for students who plan to complete a bachelor's degree in Economics or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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 complete the Economics Program will be able to:

- **Critical Thinking:** Students will demonstrate an ability to apply relevant economic theory to data, and derive rational conclusions.
- **Communications:** Students will be able to articulate critical thinking outcomes in speech and written word.
- **Global Awareness:** Students will be able to identify and understand global economic issues.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU

campuses as well as university admission, degree and transfer requirements.

### Award Notes:

Students are required to complete 60 semester or 90 quarter CSU transferable units, with a minimum overall grade point average of 2.0, to include the following:

### Major:

- A minimum of 18 semester or 27 quarter units.
- A minimum grade of "C" or better for each course required in the major.

**General Education:** Complete one of the following general education options:

- The California State University General Education Breadth (CSUGE-B) pattern
- The Intersegmental General Education Transfer Curriculum (IGETC) pattern

Electives, as needed, to meet the 60 semester or 90 quarter CSU transferable units required for the degree.

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

### Program Goals:

The purpose of this Associate in Arts degree program in Economics is to offer an organized course of study that will prepare students intending to major in Economics at the California State University.

### Program Emphasis:

The Associate in Arts in Economics for Transfer program emphasizes preparation for the major in Economics at the California State University.

<b>Courses Required for the Major:</b>		<b>Units</b>
ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3
BUSE 115	Statistics for Business <b>or</b>	
BIOL 200	Biological Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics	3
MATH 121	Basic Techniques of Applied Calculus I	3
	<b>or</b>	
MATH 150	Calculus with Analytic Geometry I	5
	<b>and</b>	
MATH 151	Calculus with Analytic Geometry II	4
<b>Category A: Select one course from the following (3–5 units):</b>		
ACCT 116A	Financial Accounting	4

ACCT 116B	Managerial Accounting	4
BUSE 119	Business Communications	3
BUSE 140	Business Law and the Legal Environment	3
CISC 150	Introduction to Computer and Information Sciences	3
CISC 181	Principles of Information Systems	4
CISC 186	Visual Basic Programming	4
COMS 160	Argumentation	3
ENGL 105	Composition and Literature	3
ENGL 205	Critical Thinking and Intermediate Composition	3
MATH 104	Trigonometry	3
MATH 116	College and Matrix Algebra	3
MATH 122	Basic Techniques of Calculus II	3
MATH 141	Precalculus	5
MATH 255	Differential Equations	3
PHIL 205	Critical Thinking and Writing in Philosophy	3
SOCO 101	Principles of Sociology	3
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
CHIN 202	Fourth Course in Mandarin Chinese	5
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
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
JAPN 101	First Course in Japanese	5
JAPN 102	Second Course in Japanese	5
JAPN 201	Third Course in Japanese	5
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
SPAN 202	Fourth Course in Spanish	5
SPAN 215	Spanish for Spanish Speakers I	5
SPAN 216	Spanish for Spanish Speakers II	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
VIET 101	First Course in Vietnamese	5

VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5

**Category B: Select one course from the following courses or any course(s) not selected in category A (3–4 units):**

ECON 220	Economics of the Environment	3
MATH 252	Calculus with Analytic Geometry III	4

**Total Units = 18–23**

**Electives as needed to meet maximum of 60 units required for the degree.**

## Education

Award Type	Units
<b>Associate in Arts for Transfer Degree:</b>	
Elementary Teacher Education	48–60

### Associate in Arts in Elementary Teacher Education for Transfer Degree:

#### Description:

The Associate in Arts for Transfer in Elementary Teacher Education is intended for students who plan to complete a bachelor's degree in Elementary Teacher Education or a related major in the California State University (CSU) system. It is recommended by some but not all CSU campuses. 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 recommend the degree.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

#### Award Notes:

Students are required to complete 60 semester or 90 quarter CSU transferable units, with a minimum overall grade point average of 2.0, to include the following:

#### Major:

- A minimum of 18 semester or 27 quarter units.
- A minimum grade of "C" or better for each course required in the major.

**General Education:** Complete one of the following general education options:

- The California State University General Education Breadth (CSUGE-B) pattern.
- The Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Electives, as needed, to meet the 60 semester or 90 quarter CSU transferable units required for the degree.

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

#### Program Goals

The purpose of this Associate in Arts degree program in Elementary Teacher Education is to offer an organized course of study that will prepare students intending to major in Elementary Teacher Education at the California State University.

#### Program Emphasis

The Elementary Teacher Education Associate in Arts for Transfer program emphasizes preparation for the major in Elementary Teacher Education at the California State University.

Courses Required for the Major:		Units
BIOL 107	General Biology – Lecture and Laboratory	4
CHIL 101	Human Growth and Development	3
COMS 103	Oral Communication	3
ENGL 101	Reading and Composition	3
ENGL 208	Introduction to Literature	3
EDUC 200	Teaching as a Profession	2
EDUC 203	Field Experience for Prospective Teachers	1
GEOG 104	World Regional Geography	3
GEO 104	Earth Science	3
GEO 120	Earth Science Laboratory	1
HIST 100	World History I	3
HIST 109	History of the United States I	3
POLI 102	Introduction to American Government	3
MATH 210A	Concepts of Elementary School Mathematics I	3
PHYN 105	Physical Science for Elementary Education	3
<b>or</b>		
PHYS 100	Introductory Physics	4
<b>and</b>		
CHEM 100	Fundamentals of Chemistry	3
<b>and</b>		
CHEM 100L	Fundamentals of Chemistry Laboratory	1



**Category A: Select one course (3 units)**

ENGL 205	Critical Thinking and Intermediate Composition	3
PHIL 205	Critical Thinking and Writing in Philosophy	3

**Category B: Select one course (3 units)**

ARTF 100	Art Orientation	3
DRAM 105	Introduction to Dramatic Arts	3
MUSI 100	Introduction to Music	3

**Category C: Select 0 to 12 additional units**

ARTF 110	Art History: Prehistoric to Gothic	3
ARTF 111	Art History: Renaissance to Modern	3
ARTF 155A	Freehand Drawing I	3
BIOL 210A	Introduction to the Biological Sciences I	4
BIOL 210B	Introduction to the Biological Sciences II	4
BIOL 215	Introduction to Zoology	4
BIOL 235	Human Physiology	4
BIOL 250	Introduction to Botany	4
BLAS 140A	History of the U.S., Black Perspectives	3
BLAS 140B	History of the U.S, Black Perspectives	3
CHIC 141A	United States History from a Chicano Perspective	3
CHIC 141B	United States History from a Chicano Perspective	3
COMS 135	Interpersonal Communication	3
COMS 160	Argumentation	3
COMS 170	Small Group Communication	3
DANC 181	History of Dance	3
ENGL 105	Composition and Literature	3
ENGL 210	American Literature I	3
ENGL 211	American Literature II	3
ENGL 215	English Literature I: 800–1799	3
ENGL 216	English Literature II: 1800 – Present	3
ENGL 220	Masterpieces of World Literature I: 1500 BCE – 1600 CE	3
ENGL 221	Masterpieces of World Literature II: 1600 – Present	3
EXSC 240	Physical Education in the Elementary Schools	3
GEOG 102	Cultural Geography	3
GEOL 100	Physical Geology	3
GEOL 101	Physical Geology Laboratory	1
HIST 110	History of the United States II	3
HIST 150	Native Americans in United States History I	3
HIST 151	Native Americans in United States History II	3
HIST 175	California History	3
HUMA 103	Introduction to the New Testament	3
HUMA 104	Introduction to the Old Testament	3

HUMA 106	World Religions	3
MATH 119	Elementary Statistics	3
MATH 210B	Concepts of Elementary School Mathematics II	3
MATH 212	Children's Mathematical Thinking	1
MUSI 110	Music for Elementary School Teachers	3
PHIL 100	Logic and Critical Thinking	3
PHIL 102A	Introduction To Philosophy: Reality and Knowledge	3
PHIL 102B	Introduction To Philosophy: Values	3
PHIL 103	Historical Introduction To Philosophy	3
PHYN 100	Survey of Physical Science	3
PHYN 101	Survey of Physical Science Laboratory	1
PSYC 101	General Psychology	3
PSYC 230	Psychology of Lifespan Development	3

**Total Units = 48–60**

**Electives as needed to meet maximum of 60 units required for the degree.**

**Liberal Studies**

See "Liberal Studies Elementary Education Preparation" on page 271.

# Engineering

<b>Award Type</b>	<b>Units</b>
<b>Certificate of Achievement:</b>	
Engineering	35
<b>Associate of Science Degree:</b>	
Engineering	35*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

**Description**

Upon completion of the required pattern of engineering courses and other degree graduation requirements an Associate of 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.

## Program Learning Outcomes

Students who complete the Engineering Program will display the ability to:

- use proportional reasoning and graphical analysis to establish and analyze relationships between measured quantities.
- apply conceptual and mathematical tools to correctly predict the future state of physical systems.
- clearly communicate scientific principles, experimental results, and their implications.

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

## Certificate of Achievement: Engineering

<b>Courses Required for the Major:</b>	<b>Units</b>
ENGE 151 Engineering Drawing	2
ENGE 200 Statics	3
ENGE 210 Properties of Materials	3
ENGE 250 Dynamics	3

### Select 24 units from the following:

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
ENGE 116 Computational Methods in Engineering	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 and Magnetism	5
PHYS 197 Waves, Optics and Modern Physics	5

**Total Units = 35**

## Associate of Science Degree: Engineering

<b>Courses Required for the Major:</b>	<b>Units</b>
ENGE 151 Engineering Drawing	2
ENGE 200 Statics	3
ENGE 210 Properties of Materials	3
ENGE 250 Dynamics	3

### Select 24 units from the following:

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
ENGE 116 Computational Methods in Engineering	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 and Magnetism	5
PHYS 197 Waves, Optics and Modern Physics	5

**Total Units = 35**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

### Electives (Mesa College) as needed to meet minimum of 60 units required for the degree.

**Recommended Electives:** Astronomy 101, 109, 111; 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 296; Mathematics 96, 104, 118, 119, 141, 150, 151; Physical Sciences 100, 101, 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	18
<b>Associate of Arts Degree:</b>	
English	28–30*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Associate in Arts for Transfer Degree:</b>	
English	18–20

## 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.

**Note:** English 205 meets SDSU/CSU critical thinking requirement. Not all courses are offered at each campus. For graduation requirements see Academic Requirements section of catalog. The associate degree requires a minimum of 60 units. 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.

## Program 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.

See page 244 for Journalism degree/certificate information.

## Certificate of Achievement: 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. In addition, students preparing for the work world may benefit from the certificate as evidence of writing skills, which many businesses require.

### **Courses Required for the Major:**

#### **Units**

#### **Select six units from the following:**

ENGL 245A	Writing Creative Nonfiction	3
ENGL 245B	Advanced Creative Nonfiction	3
ENGL 247A	Writing Seminar - Poetry	3
ENGL 247B	Advanced Writing Seminar - Poetry	3
ENGL 249A	Introduction to Creative Writing I	3
ENGL 249B	Introduction to Creative Writing II	3
ENGL 252A	Fundamentals of Fiction Writing	3
ENGL 252B	Intermediate Fiction Writing	3

#### **Select six units from the following:**

BLAS 155	African American Literature	3
CHIC 135	Chicana/o Literature	3
ENGL 208	Introduction to Literature	3
ENGL 210	American Literature I	3
ENGL 211	American Literature II	3
ENGL 215	English Literature I: 800 – 1799	3
ENGL 216	English Literature II: 1800 – Present	3
ENGL 220	Masterpieces of World Literature I: 1500 BCE – 1600 CE	3
ENGL 221	Masterpieces of World Literature II: 1600 – Present	3
ENGL 230	Asian American Literature	3
ENGL 237	Women in Literature	3
ENGL 240	Shakespeare	3

#### **Select an additional six units from the lists above.**

**Total Units = 18**

## Associate of Arts Degree: English

### **Courses Required for the Major:**

#### **Units**

ENGL 101	Reading and Composition <b>or</b>	3
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

### **Select 3 units from the following (recommended sequence for UC transfer):**

ENGL 208	Introduction to Literature	3
ENGL 220	Masterpieces of World Literature I: 1500 BCE – 1600 CE	3
ENGL 221	Masterpieces of World Literature II: 1600 – Present	3

### **Select 3 units from the following (recommended sequence for UC transfer):**

ENGL 210	American Literature I	3
ENGL 211	American Literature II	3
ENGL 230	Asian American Literature	3
ENGL 245A	Writing Creative Nonfiction	3
ENGL 247A	Writing Seminar - Poetry	3
ENGL 249A	Introduction to Creative Writing I	3

### **Select 10–12 units from the following:**

ENGL 202	Introduction to Linguistics	3
ENGL 209	Literary Approaches to Film	3
ENGL 237	Women in Literature	3
ENGL 240	Shakespeare	3
ENGL 245A <sup>1</sup>	Writing Creative Nonfiction	3
ENGL 245B	Advanced Creative Nonfiction	3
ENGL 247A <sup>1</sup>	Writing Seminar - Poetry	3
ENGL 247B	Advanced Writing Seminar - Poetry	3
ENGL 249A <sup>1</sup>	Introduction to Creative Writing I	3
ENGL 249B	Introduction to Creative Writing II	3
ENGL 252A	Fundamentals of Fiction Writing	3
ENGL 252B	Intermediate Fiction Writing	3
HUMA 101	Introduction to the Humanities I	3
HUMA 102	Introduction to the Humanities II	3
HUMA 201	Mythology	3
JOUR 200	Introduction to Newswriting and Reporting	3
JOUR 210A	Newspaper Production 1	2–3
JOUR 210B	Newspaper Production 2	2–3
JOUR 210C	Newspaper Production 3	2–3
JOUR 210D	Newspaper Production 4	2–3

**Total Units = 28–30**

<sup>1</sup>If not taken in “Select three units...” above.

**Note:** English 205 meets SDSU/CSU critical thinking requirement. Not all courses are offered at each campus. For graduation requirements see Academic Requirements section of catalog. The associate degree requires a minimum of 60 units. 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.

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## 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.

## Associate in Arts in English for Transfer Degree:

### Description:

The Associate in Arts in English for Transfer is intended for students who plan to complete a bachelor's degree in English or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

### Award Notes:

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
  - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
  - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a “C” or better in all courses required for the major or area of emphasis.

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

### Program Goals

The purpose of this Associate in Arts degree program in English is to offer an organized course of study that will prepare students intending to major in English at the California State University.

### Emphasis

The English Associate in Arts for Transfer program emphasizes preparation for the major in English at the California State University.

### Courses Required for the Major: Units

ENGL 205	Critical Thinking and Intermediate Composition	3
ENGL 208	Introduction to Literature	3

### Category A: Select two of the following courses. Sequential courses highly preferred. (Minimum of 6 units):

ENGL 210	American Literature I	3
ENGL 211	American Literature II	3
ENGL 215	English Literature I: 800 – 1799	3
ENGL 216	English Literature II: 1800 – Present	3
ENGL 220	Masterpieces of World Literature I: 1500 BCE – 1600 CE	3
ENGL 221	Masterpieces of World Literature II: 1600 – Present	3

### Category B: Select one of the following courses or any course not selected in Category A (Minimum of 3 units):

ENGL 101	Reading and Composition	3
ENGL 105	Composition and Literature	3
ENGL 240	Shakespeare	3
ENGL 245A	Writing Creative Nonfiction	3
ENGL 245B	Advanced Creative Nonfiction	3
ENGL 247A	Writing Seminar – Poetry	3
ENGL 249A	Introduction to Creative Writing I	3

### Category C: Select one of the following courses or any course not selected in Category A or B (Minimum of 3 units):

AMSL 115	American Sign Language Level I	4
AMSL 116	American Sign Language Level II	4
AMSL 215	American Sign Language Level III	4
AMSL 216	American Sign Language Level IV	4

BLAS 155	African American Literature	3
CHIC 130	Mexican Literature in Translation	3
CHIC 135	Chicana/o Literature	3
DRAM 105	Introduction to Dramatic Arts	3
ENGL 202	Introduction to Linguistics	3
ENGL 207	The Art of the Sentence	3
ENGL 209	Literary Approaches to Film	3
ENGL 230	Asian American Literature	3
ENGL 237	Women in Literature	3
ENGL 247B	Advanced Writing Seminar - Poetry	3
ENGL 249B	Introduction to Creative Writing II	3
ENGL 252A	Fundamentals of Fiction Writing	3
ENGL 252B	Intermediate Fiction Writing	3
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
CHIN 202	Fourth Course in Mandarin Chinese	5
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
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
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
JOUR 200	Introduction to Newswriting and Reporting	3
<b>or</b>		
JOUR 202	Introduction to Mass Communication	3
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
SPAN 202	Fourth Course in Spanish	5
SPAN 215	Spanish for Spanish Speakers I	5
SPAN 216	Spanish for Spanish Speakers II	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5

VIET 201 Third Course in Vietnamese 5

**Total Units = 18–20**

**Electives as needed to meet maximum 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.**

## **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

# Exercise Science

Award Type	Units
<b>Certificate of Achievement:</b>	
Personal Trainer	19–23
<b>Associate of Science Degree:</b>	
Kinesiology	20.5–23.5*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Associate in Arts for Transfer Degree:</b>	
Kinesiology	20–24

## Description

The Exercise Science Department offers a diverse curriculum which includes lower division theory courses designed for those who want to complete their Associate in Science degree in Kinesiology 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.

## Career Options

- Personal Trainer
- Group Exercise Leader
- Fitness Management
- Fitness Equipment Sales

## Program Learning Outcomes

Students who complete the Physical Education Program will be able to:

- **Critical Thinking:** Apply core critical thinking skills of analysis, interpretation, evaluation, and explanation in the development of nutritional and fitness plans and the acquisition of skill development, including proper techniques, physiological principles and kinesthetic awareness.
- **Communication:** Demonstrate effective and sensitive verbal, non-verbal and written communication skill.

- **Self-Awareness:** Value and implement physical fitness activities, wellness strategies and principles in support of a healthy lifestyle.
- **Professional and Ethical Behavior:** Display the attributes of sportsmanship and teamwork as it pertains to physical education and athletic competition.
- **Information Literacy:** Utilize current technology to research and compile information in health and wellness, human performance and athletic competition.

## Personal Trainer Certificate Program\*

Students in this program are trained to be group exercise leaders and personal trainers. Students in this program 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. Students develop safe, effective exercise plans for a variety of clients.

The Personal Trainer certificate program trains students for positions, entry-level or higher, in the growing fitness industry.

Graduates are 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: Personal Trainer

### Courses Required for the Major:

EXSC 242B	Care and Prevention of Injuries	3
EXSC 280	Applied Exercise Physiology	2
EXSC 281	Applied Kinesiology	2
EXSC 282	Techniques of Weight Training	2
EXSC 283	Exercise and Fitness Assessment	2
EXSC 284	Fitness and Sports Nutrition	2
<b>or</b>		
NUTR 170	Nutrition and Fitness	3
EXSC 285	Exercise for Special Populations	2
EXSC 286	Techniques of Exercise Leadership	2

EXSC 288	Fitness Specialist Internship Lecture	1
EXSC 270	Exercise Science Internship / Work Experience	1 - 4

**Total Units = 19–23**

\*This program prepares candidates for American College of Sports Medicine (ACSM) or American Council of Exercise (ACE) certification exams.

## Associate of Science Degree: Kinesiology

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 recommended electives.

<b>Courses Required for the Major:</b>		<b>Units</b>
EXSC 240	Physical Education in the Elementary Schools	3
EXSC 241B	Introduction to Kinesiology	3
EXSC 242B	Care and Prevention of Injuries	3
BIOL 230	Human Anatomy	4
BIOL 235	Human Physiology	4

### Select a minimum of one course from Aquatics:

EXSC 113A	Swimming I	0.5–1
EXSC 113B	Swimming II	0.5–1
EXSC 113C	Swimming III	0.5–1
EXSC 113D	Swimming IV	0.5–1

### Select a minimum of one course from Aerobic Fitness:

EXSC 114A	Aquatic Fitness I	0.5–1
EXSC 114B	Aquatic Fitness II	0.5–1
EXSC 114C	Aquatic Fitness III	0.5–1
EXSC 114D	Aquatic Fitness IV	0.5–1
EXSC 124A	Aerobic and Core Conditioning I	0.5–1
EXSC 124B	Aerobic and Core Conditioning II	0.5–1
EXSC 124C	Aerobic and Core Conditioning III	0.5–1
EXSC 124D	Aerobic and Core Conditioning IV	0.5–1
EXSC 125A	Aerobic Dance I	0.5–1
EXSC 125B	Aerobic Dance II	0.5–1
EXSC 125C	Aerobic Dance III	0.5–1
EXSC 126A	Cardio Conditioning I	0.5–1
EXSC 126B	Cardio Conditioning II	0.5–1
EXSC 126C	Cardio Conditioning III	0.5–1
EXSC 126D	Cardio Conditioning IV	0.5–1
EXSC 130A	Indoor Cycling I	0.5–1
EXSC 130B	Indoor Cycling II	0.5–1
EXSC 144A	Fitness Walking Level I	0.5–1

### Select a minimum of one course from Conditioning:

EXSC 135A	Individual Conditioning I - Fundamentals	0.5–1
EXSC 135B	Individual Conditioning II - Beginning	0.5–1
EXSC 135C	Individual Conditioning III - Intermediate	0.5–1
EXSC 135D	Individual Conditioning IV - Advanced	0.5–1
EXSC 136A	Off-Season Conditioning for Sport I	0.5–1
EXSC 136B	Off-Season Conditioning for Sport II	0.5–1
EXSC 139A	Weight Training I	0.5–1
EXSC 139B	Weight Training II	0.5–1
EXSC 139C	Weight Training III	0.5–1
EXSC 139D	Weight Training IV	0.5–1
EXSC 140A	Boot Camp I	0.5–1
EXSC 140B	Boot Camp II	0.5–1
EXSC 145A	Yoga I-Fundamentals of Yoga	0.5–1
EXSC 145B	Yoga II-Beginning Yoga	0.5–1
EXSC 145C	Yoga III-Intermediate	0.5–1
EXSC 145D	Yoga IV - Advanced Level	0.5–1

### Select a minimum of one course from Individual Sports:

EXSC 147A	Kickboxing I-Fundamental	0.5–1
EXSC 147B	Kickboxing II-Beginning	0.5–1
EXSC 147C	Kickboxing III-Intermediate	0.5–1
EXSC 147D	Kickboxing IV-Advanced	0.5–1
EXSC 148A	Martial Arts I-Fundamental	0.5–1
EXSC 148B	Martial Arts II-Beginning	0.5–1
EXSC 148C	Martial Arts III-Intermediate	0.5–1
EXSC 148D	Martial Arts IV-Advanced	0.5–1
EXSC 154A	Badminton I	0.5–1
EXSC 154B	Badminton II	0.5–1
EXSC 154C	Badminton III	0.5–1
EXSC 154D	Badminton IV	0.5–1
EXSC 160A	Springboard Diving I	0.5–1
EXSC 160B	Springboard Diving II	0.5–1
EXSC 162A	Fencing I	0.5–1
EXSC 162B	Fencing II	0.5–1
EXSC 162C	Fencing III	0.5–1
EXSC 162D	Fencing IV	0.5–1
EXSC 166A	Golf I	0.5–1
EXSC 166B	Golf II	0.5–1
EXSC 166C	Golf III	0.5–1
EXSC 166D	Golf IV	0.5–1
EXSC 168A	Gymnastics I	0.5–1
EXSC 168B	Gymnastics II	0.5–1
EXSC 168C	Gymnastics III	0.5–1
EXSC 168D	Gymnastics IV	0.5–1
EXSC 170A	Women's Gymnastics I	0.5–1



EXSC 170B	Women's Gymnastics II	0.5-1
EXSC 170C	Women's Gymnastics III	0.5-1
EXSC 170D	Women's Gymnastics IV	0.5-1
EXSC 172	Racquetball	0.5-1
EXSC 174A	Soccer I	0.5-1
EXSC 174B	Soccer II	0.5-1
EXSC 174C	Soccer III	0.5-1
EXSC 174D	Soccer IV	0.5-1
EXSC 180	Track and Field	0.5-1

### Select a minimum of one course from Team

#### Sports:

EXSC 156A	Baseball I	0.5-1
EXSC 156B	Baseball II	0.5-1
EXSC 156C	Baseball III	0.5-1
EXSC 156D	Baseball IV	0.5-1
EXSC 158A	Basketball I	0.5-1
EXSC 158B	Basketball II	0.5-1
EXSC 158C	Basketball III	0.5-1
EXSC 158D	Basketball IV	0.5-1
EXSC 164A	Football I	0.5-1
EXSC 164B	Football II	0.5-1
EXSC 164C	Football III	0.5-1
EXSC 164D	Football IV	0.5-1
EXSC 174A	Soccer I	0.5-1
EXSC 174B	Soccer II	0.5-1
EXSC 174C	Soccer III	0.5-1
EXSC 174D	Soccer IV	0.5-1
EXSC 176A	Softball I	0.5-1
EXSC 176B	Softball II	0.5-1
EXSC 176C	Softball III	0.5-1
EXSC 176D	Softball IV	0.5-1
EXSC 182A	Volleyball I	0.5-1
EXSC 182B	Volleyball II	0.5-1
EXSC 182C	Volleyball III	0.5-1
EXSC 182D	Volleyball IV	0.5-1
EXSC 184A	Water Polo I	0.5-1
EXSC 184B	Water Polo II	0.5-1
EXSC 184C	Water Polo III	0.5-1
EXSC 184D	Water Polo IV	0.5-1

### Select a minimum of one course from Dance:

DANC 110A	Ballet I	1-1.5
DANC 110B	Ballet II	1.5
DANC 135A	Jazz Dance I	1-1.5
DANC 135B	Jazz Dance II	1.5
DANC 140A	Modern Dance I	1-1.5
DANC 140B	Modern Dance II	1.5
DANC 145A	Ballroom Dance I	1-1.5
DANC 145B	Ballroom Dance II	1-1.5

**Total Units = 20.5-23.5**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

### Electives as needed to meet minimum of 60 units required for the degree.

**Recommended Electives:** Health Education 101, 131, 195; Exercise Science 118, 119, 200, 201, 202, 203, 204, 205, 206, 207, 210, 211, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228A, 228B, 230A, 230B, 231A, 231B, 233A, 233B, 234A, 234B, 235A, 235B, 238A, 238B, 239A, 239B; Psychology 101, 258, Sociology 101.

### Associate in Arts in Kinesiology for Transfer Degree:

The Associate in Arts in Kinesiology for Transfer Degree is intended for students who plan to complete a bachelor's degree in Kinesiology or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

#### Award Notes:

Students are required to complete a minimum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

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

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- 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.

- 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.
- Certified completion of the California State University General Education-Breadth pattern (CSU GE; see page 138 for more information); OR the Intersegmental General Education Transfer Curriculum pattern (IGETC; see page 130 for more information).

### Goals

The purpose of this Associate of Arts in Kinesiology for Transfer Degree program is to offer an organized course of study that will prepare students intending to major in Kinesiology at the California State University.

### Emphasis

The Associate in Arts in Kinesiology for Transfer Degree program emphasizes preparation for the major in Kinesiology at the California State University.

### Program Learning Outcomes:

- **Critical Thinking:** Apply core critical thinking skills of analysis, interpretation, evaluation, and explanation in the development of nutritional and fitness plans and the acquisition of skill development including proper techniques, physiological principles and kinesthetic awareness.
- **Communication:** Demonstrate effective and sensitive verbal, non-verbal and written communication skills.
- **Self Awareness:** Value and implement physical fitness activities, wellness strategies and principles in support of a healthy lifestyle.
- **Interpersonal Skills:** Display the attributes of sportsmanship and teamwork as it pertains to physical education and athletic competition.
- **Technological Awareness:** 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, projects, tests and quizzes.

### Courses Required for the Major: Units

BIOL 230	Human Anatomy	4
BIOL 235	Human Physiology	4
EXSC 241B	Introduction to Kinesiology	3

### Select a maximum of one course from any three of the following areas for a minimum of 3 units

#### Aquatics

EXSC 113A	Swimming I	1
EXSC 113B	Swimming II	1
EXSC 113C	Swimming III	1
EXSC 113D	Swimming IV	1

#### Team Sports

EXSC 158A	Basketball I	1
EXSC 158B	Basketball II	1
EXSC 158C	Basketball III	1
EXSC 158D	Basketball IV	1
EXSC 174A	Soccer I	1
EXSC 174B	Soccer II	1
EXSC 174C	Soccer III	1
EXSC 174D	Soccer IV	1
EXSC 176A	Softball I	1
EXSC 176B	Softball II	1
EXSC 176C	Softball III	1
EXSC 176D	Softball IV	1
EXSC 182A	Volleyball I	1
EXSC 182B	Volleyball II	1
EXSC 182C	Volleyball III	1
EXSC 182D	Volleyball IV	1

#### Individual Sports

EXSC 154A	Badminton I	1
EXSC 154B	Badminton II	1
EXSC 154C	Badminton III	1
EXSC 154D	Badminton IV	1
EXSC 166A	Golf I	1
EXSC 166B	Golf II	1
EXSC 166C	Golf III	1
EXSC 166D	Golf IV	1
EXSC 168A	Gymnastics I	1
EXSC 168B	Gymnastics II	1
EXSC 168C	Gymnastics III	1
EXSC 168D	Gymnastics IV	1
EXSC 170A	Women's Gymnastics I	1
EXSC 170B	Women's Gymnastics II	1
EXSC 170C	Women's Gymnastics III	1
EXSC 170D	Women's Gymnastics IV	1
EXSC 178A	Tennis I	1
EXSC 178B	Tennis II	1
EXSC 178C	Tennis III	1
EXSC 178D	Tennis IV	1

**Fitness**

EXSC 125A	Aerobic Dance I	1
EXSC 125B	Aerobic Dance II	1
EXSC 125C	Aerobic Dance III	1
EXSC 125D	Aerobic Dance IV	1
EXSC 135A	Individual Conditioning I – Fundamentals	1
EXSC 135B	Individual Conditioning II – Beginning	1
EXSC 135C	Individual Conditioning III – Intermediate	1
EXSC 135D	Individual Conditioning IV – Advanced	1
EXSC 139A	Weight Training I	1
EXSC 139B	Weight Training II	1
EXSC 139C	Weight Training III	1
EXSC 139D	Weight Training IV	1
EXSC 145A	Yoga I – Fundamentals of Yoga	1
EXSC 145B	Yoga II – Beginning Yoga	1
EXSC 145C	Yoga III – Intermediate	1
EXSC 145D	Yoga IV – Advanced Level	1

**Dance**

DANC 145A	Ballroom Dance I	1
DANC 145B	Ballroom Dance II	1

**Category A: Select two of the following courses (minimum 6 units):**

BIOL 200	Biological Statistics <b>or</b>	
MATH 119	Elementary Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics	3
CHEM 200	General Chemistry I – Lecture <b>and</b>	3
CHEM 200L	General Chemistry I – Laboratory	2
HEAL 131	Emergency Medical Response	3
PHYS 125	General Physics	5

**Total Units = 20–24****Recommended Electives:** Exercise Science 242B.**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.**Electives as needed to meet maximum 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 a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Fashion

Award Type	Units
<b>Certificate of Achievement:</b>	
Fashion Design	31–37
Fashion Merchandising	33.5–38.5
Computer Fashion Technology: Design	31
Computer Fashion Technology: Merchandising	30
<b>Associate of Science Degree:</b>	
Fashion Design	46–52*
Fashion Merchandising	39.5–44.5*
Computer Fashion Technology: Design	45*
Computer Fashion Technology: Merchandising	41–42*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

**Description**

The Fashion program offers a variety of courses that allow students to develop skills to pursue careers in Fashion Design, Fashion Merchandising Merchandising, Computer Fashion Technology: Design, Computer Fashion Technology: Merchandising, and related fashion careers. With a high emphasis on technology, both computer and equipment-based, students obtain skills that assist them in securing 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 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

**Fashion Design:** 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.

**Fashion Merchandising:** Careers in the areas of Merchandising, Retail Management, Fashion Sales, Fashion Buying, Promotion, Visual Merchandising, Fashion Styling, Fashion Marketing, Fashion Sales, Stylist, Manufacturer's Sale Rep, Piece Goods or Trim Buyer.

### Program 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.
- **Industry Preparedness:** Students will achieve a set of skills that keeps them current and allows them to secure employment in the Fashion industry.

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 <b>or</b>	
FASH 122	Ethnic Costume	3
FASH 125	Fashion Selection	3
FASH 130	Apparel Construction I	3
FASH 140	Clothing Design and Flat Pattern I	3
FASH 142	Fashion Illustration & Technical Sketching	3
FASH 145	Clothing Design Through Draping	3
FASH 155	Fashion Field Studies <b>or</b>	
FASH 156	International Fashion Field Studies: Overview <b>or</b>	
FASH 157	International Field Studies: Focused Study <b>or</b>	
FASH 158	Fashion Field Studies: Trade Shows/ Markets	1-4
FASH 175	Computer Fashion Design: Adobe PhotoShop <b>or</b>	
FASH 176	Computer Fashion Design: Adobe Illustrator	3
FASH 199B	Fashion Laboratory B	1
FASH 199A	Fashion Laboratory A	1
FASH 270	Work Experience	1-4
FASH 168	Textiles	3

**Total Units = 31-37**

## Certificate of Achievement:

### Fashion Merchandising

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	3
FASH 112	Fashion Promotion	3
FASH 113	Fashion Event Planning and Production	1.5
FASH 115	Visual Merchandising	3
FASH 125	Fashion Selection	3
FASH 155	Fashion Field Studies <b>or</b>	
FASH 156	International Fashion Field Studies: Overview <b>or</b>	
FASH 157	International Field Studies: Focused Study <b>or</b>	
FASH 158	Fashion Field Studies: Trade Shows/ Markets	1-4
FASH 168	Textiles	3
FASH 178	Computer Publishing and Portfolio	3
FASH 270	Work Experience	2-4
CBTE 140	Beginning Microsoft Excel	2

**Select one course from the following :**

FASH 111	Fashion E-commerce	3
FASH 190	Fashion Entrepreneurship	3
MARK 105	Professional Selling	3
MARK 110	Principles of Retailing	3
MARK 130	Advertising Principles	3

**Total Units = 33.5-38.5**

## 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 FASH 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: Adobe PhotoShop	3
FASH 176	Computer Fashion Design: Adobe Illustrator	3
FASH 178	Computer Publishing and Portfolio	3
FASH 199A	Fashion Laboratory A	1
CBTE 140	Beginning Microsoft Excel	2
CBTE 180	Microsoft Office	3
FASH 168	Textiles	3

**Total Units = 31**

**Recommended Electives:** Fashion 108; Multimedia 100.

## 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 FASH 270, Work Experience, near the end of their course of study.**

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 173	Fashion Marketing on the Internet	1
FASH 175	Computer Fashion Design: Adobe PhotoShop	3
FASH 176	Computer Fashion Design: Adobe Illustrator	3
FASH 178	Computer Publishing and Portfolio	3
FASH 179	Fashion Photo Styling	3
CBTE 140	Beginning Microsoft Excel	2
CBTE 180	Microsoft Office	3
WEBD 173	E-Commerce Website Creation	3

**Total Units = 30**

**Recommended Electives:** Multimedia 101.

## Associate of Science Degree:

### Fashion Design

<b>Courses Required for the Major:</b>		<b>Units</b>
FASH 105	Introduction to Fashion	3
FASH 120	Fashion History and Trends <b>or</b>	
FASH 122	Ethnic Costume	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 Illustration & Technical Sketching	3
FASH 145	Clothing Design Through Draping	3
FASH 150	Advanced Fashion Design	3
FASH 155	Fashion Field Studies <b>or</b>	
FASH 156	International Fashion Field Studies: Overview <b>or</b>	
FASH 157	International Field Studies: Focused Study <b>or</b>	
FASH 158	Fashion Field Studies: Trade Shows/ Markets	1–4
FASH 175	Computer Fashion Design: Adobe PhotoShop <b>or</b>	
FASH 176	Computer Fashion Design: 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	1–4
FASH 168	Textiles	3
CBTE 140	Beginning Microsoft Excel	2
ARTF 150A	Two-Dimensional Design	3
<b>Choose three units from the following:</b>		
FASH 109	Fashion Product Development	3
FASH 121	Ethnic Costume: Overview of History and Design	1
FASH 122	Ethnic Costume	3
FASH 123	Introduction to Costume Development	3
FASH 124	Costume Understructures	1
FASH 135	Tailoring	3
FASH 141	Clothing Design and Flat Pattern II	3
FASH 143	Advanced Fashion Illustration and Technical Sketching	1.5
FASH 147	Stretch Knits: Design and Construction	1
FASH 160	Millinery Techniques	1
FASH 161	Millinery Flat Pattern Design	1
FASH 162	Millinery Blocking	1
FASH 166	Fitting Techniques and Alterations	3
FASH 169	Textile Design Practicum	3
FASH 170	Textile Design	1

FASH 171	Computer Flat Pattern Design	3
FASH 172	Computer Flat Pattern for Industry	3
<b>Total Units = 46–52</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate of Science Degree: 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 113	Fashion Event Planning and Production	1.5
FASH 115	Visual Merchandising	3
FASH 125	Fashion Selection	3
FASH 155	Fashion Field Studies <b>or</b>	
FASH 156	International Fashion Field Studies: Overview <b>or</b>	
FASH 157	International Field Studies: Focused Study <b>or</b>	
FASH 158	Fashion Field Studies: Trade Shows/ Markets	1–4
FASH 168	Textiles	3
FASH 178	Computer Publishing and Portfolio	3
FASH 190	Fashion Entrepreneurship	3
FASH 270	Work Experience	2–4
ARTF 150A	Two-Dimensional Design	3
CBTE 140	Beginning Microsoft Excel	2

### Select one course from:

FASH 109	Fashion Product Development	3
FASH 111	Fashion E-commerce	3
MARK 105	Professional Selling	3
MARK 110	Principles of Retailing	3
MARK 130	Advertising Principles	3

**Total Units = 39.5–44.5**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate of 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 FASH 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 for Industry	3
FASH 173	Fashion Marketing on the Internet	1
FASH 175	Computer Fashion Design: Adobe PhotoShop	3
FASH 176	Computer Fashion Design: 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	3
<b>or</b>		
MULT 100	Introduction to Visual Communication	3
CBTE 140	Beginning Microsoft Excel	2
CBTE 180	Microsoft Office	3
FASH 168	Textiles	3

**Total Units = 45**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Recommended Electives:** Fashion 108, 120.

## Associate of 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: Adobe PhotoShop	3
FASH 176	Computer Fashion Design: Adobe Illustrator	3
FASH 178	Computer Publishing and Portfolio	3
FASH 179	Fashion Photo Styling	3
FASH 270	Work Experience	2
FASH 168	Textiles	3
ARTF 150B	Beginning Graphic Design <b>or</b>	3
MULT 101	Introduction to Visual Communication	4
CBTE 140	Beginning Microsoft Excel	2
CBTE 180	Microsoft Office	3
WEBD 173	E-Commerce Website Creation	3

**Total Units = 41–42**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Recommended Electives:** Art–Fine Art 150A; Web Development 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.**

## Fermentation

Award Type	Units
<b>Certificate of Achievement</b>	
Fermentation Management	29
<b>Associate of Arts Degree:</b>	
Fermentation Management	45*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Description

The Fermentation Management program includes study of the production, management and business of the following industries: brewing, distilling, wine making, coffee roasting, and other various fermented beverages. Both the Certificate of Achievement and Associate of Science include study in the business aspect of the industry including sales and marketing, law, accounting, importing, distribution and operations. They also include the study of the production of beer, wine, spirits and other fermented beverages. The Associate of Science includes laboratory courses in beer and wine production, as well as other fermented beverages. The Associate of Science also helps prepare students for transfer to a similar four-year program.

### Program Emphasis

Students enrolled in the Fermentation Management program study the production, management and business of the following industries: brewing, distilling, wine making, coffee roasting, and other various fermented beverages.

Production focuses on beverage making, aging and tasting. For example, students build their palette to learn the difference between a new world and an old world wine, including the geography, climates and mix of grapes that make them taste different.

They may be supplying the latest mocha java on campus one week, and the newest pilsner the next.

Management includes areas such as branding and marketing strategies for kombucha versus the latest IPA, understanding the various roles and responsibilities of a craft brewing upstart, or scaling it for future growth.

The business side teaches students about the various laws and zoning for opening a craft brewery, distillery or kombucha bar. How they might import international options for their menus, export their creations across the border, profit during that process, and market their start up to a larger company in the future are all explored.

### Goals

To obtain a broad understanding of the various fermented beverage industries so students are more desirable and marketable, resulting in greater advancement in the industry.

The objectives for the Fermentation Management program are to:

1. Emphasize a broad foundation in fermentation management and practice.
2. Prepare students for all stages of fermentation management and how it relates to production, operations, finance, hiring, retail, sales, marketing, laws and regulations.
3. Provide students with an understanding of the fermentation process, timeline and ideal environment for the process to take place.
4. Have students produce quality fermented beverages in a safe manner utilizing equipment comparable to beverage manufacturing operations. (Fermentation Management AS only)

### Career Options

The world of fermentation is unique because it offers opportunities in a variety of vocations. The program allows students to pursue many facets of the fermentation and beverage industry. Career options include brewer, wine maker, distiller, coffee roaster, tap room manager, winery manager, sales manager, entrepreneur, distributor, packager, bottler, beverage writer, and beverage manager, to name a few.

Employees could manage departments in brewing, wine making or research and development in San Diego, Temecula or even Valle de Guadalupe. They



may be a quality controller, analyst in the operations laboratory, or manager of facilities and warehouse operations for a large craft production house. They may also become an entrepreneur opening their own brewery, winery, roasting facility or bar.

## Certificate of Achievement: Fermentation Management

<b>Courses Required for the Major:</b>		<b>Units</b>
FERM 101	Introduction to Yeast and Fermentation	3
FERM 110	Importing and Distribution	3
FERM 120	Fundamentals of Spirits	2
FERM 130	Flavor and Form	2
HOSP 102	Hospitality Financial Accounting	3
HOSP 111	Food and Beverage Management	3
HOSP 121	Event & Hospitality Marketing & Sales	3
HOSP 130	Hospitality Law	3
HOSP 270	Work Experience	3
ACCT 116A	Financial Accounting	4
<b>Total Units = 29</b>		

## Associate of Arts Degree: Fermentation Management

<b>Courses Required for the Major:</b>		<b>Units</b>
FERM 101	Introduction to Yeast and Fermentation	3
FERM 110	Importing and Distribution	3
FERM 120	Fundamentals of Spirits	2
FERM 130	Flavor and Form	2
FERM 140	Beer Production Laboratory	4
FERM 150	Wine Production Laboratory	4
FERM 160	Retail and Marketing Laboratory	4
HOSP 102	Hospitality Financial Accounting	3
HOSP 111	Food and Beverage Management	3
HOSP 130	Hospitality Law	3
HOSP 270	Work Experience	3
ACCT 116A	Financial Accounting	4

### Select four (4) units from the following combination of courses:

CHEM 111	Chemistry in Society	3
<b>and</b>		
CHEM 111L	Chemistry in Society Laboratory	1
<b>or</b>		
CHEM 152 <sup>1</sup>	Introduction to General Chemistry	3
<b>and</b>		
CHEM 152L <sup>1</sup>	Introduction to General Chemistry Laboratory	1

<sup>1</sup>Recommended for students who may want to transfer to similar university program.

### Select three (3) units from one of the following courses:

BUSE 115	Statistics for Business	3
<b>or</b>		
MATH 119	Elementary Statistics	3
<b>or</b>		
MATH 121 <sup>1</sup>	Basic Techniques of Applied Calculus I	3

<sup>1</sup>Recommended for students who may want to transfer to similar university program.

**Total Units = 45**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## French

<b>Award Type</b>	<b>Units</b>
<b>Associate of Arts Degree:</b> French	26*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### 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.

### Program Learning Outcomes

- Demonstrate level-appropriate proficiency on the ACTFL scale in understanding, speaking, reading, and writing of the targeted language.
- Utilize targeted language skills to complete a general program of lower division coursework, pursue language study at the transfer level, for personal enrichment, or for professional development.

- Apply knowledge of and sensitivity to aspects of behavior, attitudes, and values of targeted language-speaking countries to connect with the global community.

## Associate of 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	Conversation and Composition in French I	3
FREN 211	Conversation and Composition in French II	3
<b>Total Units = 26</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Art–Fine Art 109, 111; Anthropology 103, 107; Chicana and Chicano Studies 135, 138; 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 “Exercise Science” on page 215.

### Food

See “Culinary Arts/Culinary Management in Hospitality” on page 197.

### Fitness and Nutrition

See “Nutrition” on page 281.

### Garden Design

See “Architecture” on page 163.

# Geographic Information Systems

Award Type	Units
<b>Certificate of Achievement:</b> Geographic Information Systems Technician	17–19
<b>Associate of Science Degree:</b> Geographic Information Systems	33–37*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Description

Geographic Information Systems (GIS) integrates hardware, software and data in a geographic format that is used to make decisions and share information. GIS connects the world we live in by allowing us to view, understand, interpret, and visualize data. GIS uses maps to reveal patterns and relationships.

The GIS program is designed to prepare students with technological skills and knowledge to map information that provides insights into social, economic, business, and environmental issues. This growing field is finding a place in almost every industry and academic area. These include anthropology, archaeology, biology, firefighting, police, business and finance, real estate, medicine and disease control.

### 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, GIS Remote Sensing Technician, Engineering Technician, GIS

Mapping Assistant, GIS Application Specialist,  
Engineering Aide

### Program 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 Achievement: Geographic Information Systems Technician

<b>Courses:</b>	<b>Units</b>
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	3
GISG 114 Spatial Databases in Geographic Information Systems	3
GISG 270 Geographic Information Systems Work Experience	2-4
<b>Total Units = 17-19</b>	

**Note:** Only the 16 unit option is eligible for federal financial aid in accordance with Federal regulations.

### Associate of Science Degree: Geographic Information Systems

<b>Courses Required for the Major:</b>	<b>Units</b>
GISG 104 Geographic Information Science and Spatial Reasoning	3
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	3
GISG 114 Spatial Databases in Geographic Information Systems	3
GISG 130 Introduction to Remote Sensing	3
GISG 131 Introduction to Digital Image Processing	3
GISG 270 Geographic Information Systems Work Experience	1 - 4

#### Select three to four units in a programming language:

CISC 190 Java Programming	4
CISC 192 C/C++ Programming	4
WEBD 152 Beginning Web Development: HyperText Markup Language (HTML) and Cascading Style Sheets (CSS)	3
WEBD 164 Javascript Fundamentals for Web Development	3

#### Select five units from:

ANTH 103 Introduction to Cultural Anthropology	3
ANTH 107 Introduction to Archaeology	3
ARCH 100 Graphic Design Communication I	2
ARCH 101 ArchiCAD	3
ARCH 112 AutoCAD	3
ARCH 170 Architectural Design	4
BIOL 100 Natural History - Environmental Biology	4
CISC 186 Visual Basic Programming	4
CISC 190 Java Programming	4
CISC 192 C/C++ Programming	4
CBTE 140 Beginning Microsoft Excel	2
CBTE 151 Microsoft Access: Basic	1
GEOG 101 Physical Geography	3
GEOG 102 Cultural Geography	3
GEOG 104 World Regional Geography	3
GEOG 154 Introduction to Urban Geography	3
GEOLOG 100 Physical Geology	3
MARK 100 Principles of Marketing	3
MARK 110 Principles of Retailing	3
MARK 130 Advertising Principles	3

PHYN 100	Survey of Physical Science	3
POLI 101	Introduction to Political Science	3
POLI 102	The American Political System	3
POLI 103	Comparative Politics	3
REAL 101	Real Estate Principles	3
REAL 105	Legal Aspects of Real Estate	3
REAL 125	Real Estate Economics	3
WEBD 152	Beginning Web Development: HyperText Markup Language (HTML) and Cascading Style Sheets (CSS)	3
WEBD 164	Javascript Fundamentals for Web Development	3
WEBD 167	Using Web Databases	3

**Total Units = 33–37**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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
<b>Associate of Arts Degree:</b>	
Geography	19–21*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Associate in Arts for Transfer Degree:</b>	
Geography	19

### 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 of 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.

### Program Learning Outcomes

Students who complete the Geography Program will gain facility with:

- **Critical Thinking:** Think critically in reading about topics in Geography, thereby identifying problems, theses, arguments, evidence and conclusions.
- **Communication:** Write or speak about topics in Geography, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- **Personal Actions and Civic Responsibility:** Demonstrate an ability to understand one's role in society, take responsibility for one's own actions, and make ethical decisions in complex situations.
- **Global Awareness:** Articulate similarities and contrasts among cultures, times, and environments, demonstrating an understanding of cultural pluralism.
- **Technological Awareness:** Demonstrate an ability to understand applications and implications 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 of 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 (if not selected above):

ANTH 102 Introduction to Biological 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

GEOG 101	Physical Geography	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
<b>Total Units = 19–21</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

## Associate in Arts in Geography for Transfer Degree:

The Associate in Arts in Geography for Transfer Degree is intended for students who plan to complete a bachelor's degree in Geography or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

### Program Learning Outcomes:

Students who complete the Geography Program will gain facility with:

- **Critical Thinking:** Think critically in reading about topics in Geography, thereby identifying problems, theses, arguments, evidence and conclusions.
- **Communication:** Write or speak about topics in Geography, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- **Personal Actions and Civic Responsibility:** Demonstrate an ability to understand one's role in society, take responsibility for one's own actions, and make ethical decisions in complex situations.
- **Global Awareness:** Articulate similarities and contrasts among cultures, times, and environments, demonstrating an understanding of cultural pluralism.
- **Technological Awareness:** Demonstrate an ability to understand applications and implications 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

**Award Notes:**

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

<b>Courses Required for the Major:</b>	<b>Units</b>
GEOG 101 Physical Geography	3
GEOG 101L Physical Geography Laboratory	1
GEOG 102 Cultural Geography	3

**Category A: Select two of the following courses (6 units minimum):**

GEOG 104 World Regional Geography	3
GISG 104 Geographic Information Science and Spatial Reasoning	3
GISG 111 Geographic Information Systems and Cartography	3

**Category B: Select two or more courses from the following, not selected in Category A (6 units minimum):**

ANTH 103 Introduction to Cultural Anthropology	3
CHEM 200 General Chemistry I – Lecture	3
<b>and</b>	
CHEM 200L General Chemistry I – Laboratory	2
GEOL 100 Physical Geology	3
GEOG 154 Introduction to Urban Geography	3
MATH 119 Elementary Statistics	3

**Total Units = 19**

**Electives as needed to meet maximum 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 a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

# Geology

<b>Award Type</b>	<b>Units</b>
<b>Associate in Science for Transfer Degree:</b>	
Geology	27

## Associate in Science in Geology for Transfer Degree:

The Associate in Science in Geology for Transfer is intended for students who plan to complete a bachelor's degree in Geology or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

**Award Notes:**

Students are required to complete a maximum of 60 CSU-transferable units with a minimum overall grade point average of 2.0.

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the

California State University, including both of the following:

- a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
  - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis.

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

#### Program Goals:

The purpose of this Associate in Science in Geology for Transfer degree program is to offer an organized course of study that will prepare students intending to major in Geology at the California State University.

#### Program Emphasis:

The Associate in Science in Geology for Transfer program emphasizes preparation for the major in Geology at the California State University.

Courses Required for the Major:		Units
GEOL 100	Physical Geology	3
GEOL 101	Physical Geology Laboratory	1
GEOL 111	The Earth Through Time	4
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
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
<b>Total Units = 27</b>		

**Electives as needed to meet maximum of 60 units required for the degree.**

## Health Education

See “Nutrition” on page 281.

# Health Information Technology

Award Type	Units
<b>Certificate of Achievement</b>	
Coding Specialist	25
<b>Associate of Science Degree:</b>	
Health Information Technology	33*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Bachelor of Science Degree:</b>	
Health Information Management	87**
**Plus lower division General Education Requirements and electives as needed to meet the lower division minimum of 60 units.	

## Description

The Associate of Science Degree in Health Information Technology is designed to prepare students to work in a variety of settings, including hospitals, outpatient clinics, behavioral health facilities, government health agencies, long term care facilities, and various health information industry vendors.

## Note:

The Health Information Technology Associate of Science degree program is accredited by the Commission on Accreditation for Health Informatics and Information Management (CAHIIM). Graduates of the program are eligible to sit for the national accreditation examination of the American Health Information Management Association, and upon passing this exam become credentialed as an RHIT (Registered Health Information Technician).

A grade of “C” or better must be maintained in all courses to continue in this restricted program. Course repetition in this program is not permitted unless student is granted readmission. This program is governed by the Allied Health Department Policies and Procedures.

Eligibility for enrollment in this program is determined by a special admission procedure. Interested persons should review program information at <http://www.sdmesa.edu/academics/schools-departments/allied-health/>.

## Directed Clinical Practice (DCP) 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 for removal from the program.

## Goals

- Students who complete the Health Information Technology Associate of Science Degree 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.

## Career Options

Upon successful completion of the Associate of Science Degree in Health Information Technology, students may find employment in health information departments as a release of information specialist, document imaging specialist, entry-level coder, health information supervisor, clinical

coding specialist, medical data analyst, data quality/integrity associate, clinical documentation specialist, cancer registry coordinator, or risk/compliance assistant.

## Program 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.

## Certificate of Achievement: Coding Specialist

The Health Information Technology program offers two avenues for students interested in a career in the health information field. The Coding Specialist Certificate of Achievement is designed to prepare students to work in a variety of settings, including hospitals, outpatient clinics, behavioral health facilities, government health agencies, long term care facilities, and various health information industry vendors.

### Note:

Students who earn the Coding Specialist Certificate of Achievement are eligible to sit for the following American Health Information Management Association (AHIMA) certifications: Certified Coding Specialist (CCS), the Certified Coding Specialist - Physician-based (CCS-P), and the Certified Coding Associate (CCA). Students who wish to become fully credentialed Registered Health Information



Technologists (RHIT) must complete the Associate Degree requirements.

### Program Goals:

Students who complete the Coding Specialist Certificate of Achievement will be able to:

Apply medical terminology and concepts in biomedical sciences to the practice of medical claims processing.

Assign proper diagnosis and procedural codes to health records including ICD and CPT/HCPCS.

Utilize various health information related software applications and electronic health records to view, code, process and submit medical claims for proper reimbursement.

Analyze medical documentation and data elements for validity, reliability, completeness, currency, timeliness and accessibility.

Understand legal aspects of health care, confidentiality requirements and health law ethics.

Apply critical thinking skills to various coding and billing situations.

### Career Options:

The Coding Specialist Certificate of Achievement is designed to provide students with the knowledge and skills required for an entry-level position as a coder in a variety of settings, including hospitals, outpatient clinics, behavioral health facilities, government health agencies, long term care facilities, and various health information industry vendors.

Courses required for the Major:		Units
MEDA 55	Fundamentals Human Anatomy and Physiology	3
MEDA 110	Medical Terminology	3
MEDA 115	Pathophysiology	3
HEIT 110	Introduction to Health Information	4
HEIT 130	Basic Pharmacology	1
HEIT 214	ICD Coding I	3
HEIT 215	ICD Coding II	3
HEIT 155	Current Procedural Terminology (CPT) Coding	3
HEIT 160	Healthcare Reimbursement	2
<b>Total Units = 25</b>		

## Associate of Science Degree: Health Information Technology

Courses required for the Major:		Units
HEIT 110	Introduction to Health Information	4
HEIT 130	Basic Pharmacology	1
HEIT 135	Computer Basics for Health Information	1
HEIT 140	Fundamentals of Law for Health Information	3
HEIT 155	Current Procedural Terminology (CPT) Coding	3
HEIT 160	Healthcare Reimbursement	2
HEIT 214	ICD Coding I	3
HEIT 215	ICD Coding II	3
HEIT 220	Principles of Leadership	2
HEIT 256	Statistics for Healthcare	3
HEIT 258	Healthcare Quality Management	3
HEIT 266	Directed Clinical Practice A	2.5
HEIT 267	Directed Clinical Practice B	2.5
<b>Total Units = 33</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

Students pursuing the Bachelor of Science Degree: Health Information Management are required to complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Electives as needed to meet minimum of 60 units required for the degree.**

**Note:** Students must complete HEIT 214 (formerly HEIT 155A) and 215 (formerly HEIT 155B) within five years in order to receive the Health Information Technology Associate of Science degree.

## Health Information Management

### Description

At the March 16, 2015, California Community College Board of Governors meeting, the members voted unanimously to approve San Diego Mesa College's Health Information Management (HIM) Bachelor of Science degree as one of the fifteen community college pilot programs to be offered in the state. The HIM program received Accrediting Commission for Community and Junior Colleges (ACCJC),

Western Association of Schools and Colleges (WASC) approval.

The HIM program has the following requirements:

- A combination of lower division and upper division coursework totaling a minimum of 132 semester units that are applicable to a baccalaureate degree as defined within these guidelines.

**Lower Division General Education:**

In addition to the courses required for the major, all students must complete one of the following general education options:

- The California State University (CSU) General Education Breadth pattern; or
- The Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- Completion of a minimum of 54 semester units of upper division courses, including a minimum of 10 semester units of upper division general education.
- An identified major that includes a minimum of 30 semester units of lower division courses and 44 semester units of upper division courses.

The Bachelor of Science degree in Health Information Management program provides accessible, high-quality industry-approved instruction designed to prepare students to work at a management level in a variety of healthcare settings including acute and subacute hospitals, outpatient clinics, government health agencies, and electronic health records industry vendors.

The Health Information Management program is accredited through the Commission on Accreditation for Health Informatics and Information Management (CAHIIM). Graduates of the program will be eligible to sit for the national certification exam once the accreditation has been approved.

**Student Learning Outcomes**

Graduates of the HIM program will be able to:

- Apply the laws of patient record confidentiality, privacy, and compliance
- Use and design data, databases, and healthcare systems
- Demonstrate and apply knowledge of the principles of personnel management

- Develop a financial plan for a health information management department
- Demonstrate mastery of the principles of health information management
- Analyze healthcare data; assimilate data and information

**Career Options**

Graduates obtaining their Registered Health Information Administrator (RHIA) certification are qualified to be a Health Information Department Manager or Director, a Coding Manager, a Healthcare Systems Manager, a Data Analyst, a Quality or Compliance Coordinator, or a College/University Professor of Health Information Technology or Health Information Management.

**Bachelor of Science Degree: Health Information Management**

**Lower Division Courses Required for the Degree**

HEIT 110	Introduction to Health Information	4
HEIT 130	Basic Pharmacology	1
HEIT 135	Computer Basics for Health Information	1
HEIT 140	Fundamentals of Law for Health Information	3
HEIT 155	Current Procedural Terminology (CPT) Coding	3
HEIT 160	Healthcare Reimbursement	2
HEIT 214	ICD Coding I	3
HEIT 215	ICD Coding II	3
HEIT 220	Principles of Leadership	2
HEIT 256	Statistics for Healthcare	3
HEIT 258	Healthcare Quality Management	3
HEIT 266	Directed Clinical Practice A	2.5
HEIT 267	Directed Clinical Practice B	2.5

**Lower and Upper Division General Education:**

In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Lower Division Courses Required for the Major:**

Students who have earned an Associate Degree in Health Information Technology from an institution which is regionally accredited and accredited by the Commission on Accreditation for Health

Informatics and Information Management (CAHIIM) will have satisfied the lower division major courses required for the Health Information Management Baccalaureate Degree. General education requirements must meet one of the following general education options: the California State University General Education Breadth pattern or the Intersegmental General Education Transfer Curriculum pattern.

### Upper Division Program Prerequisite:

In order to be admitted to the Health Information Management (HIMS) program at the upper division level, applicants must successfully complete the Health Information Technology (HEIT) lower division courses required for the major each with a grade of "C" or better.

Credit for prior learning or experience working in the health information field may be accepted upon approval of the program director.

Enrollment in the upper division courses is restricted to students admitted to the Health Information Management (HIMS) program.

### Upper Division Courses Required for the Degree

HIMS 405	Foundations in Health Information Management	4
HIMS 408	Ethics in Healthcare Administration	3
ENGL 401	Advanced Writing for Healthcare Professionals	3
HIMS 410	Healthcare Informatics	4
PSYC 401	Organizational Psychology for the Healthcare Professional	3
HIMS 415	Healthcare Analytics	4
HIMS 418	Topics in Legal and Compliance for Healthcare Professionals	4
HIMS 420	Principles of Finance for Health Information Management	3
CISC 401	Database Management and Design for Healthcare Professionals	4
HIMS 425	Revenue Cycle Management	3
HIMS 430	Human Resources Management in Healthcare	4
HIMS 435	Project Management in the Healthcare Setting	3
HIMS 440	Leadership and Strategic Management for Healthcare Professionals	4
HIMS 445	Healthcare Information Systems Analysis and Design	4
HIMS 455	Applied Research Project in Health Information Management	3

HIMS 460 Advanced Directed Clinical Placement 1

**Total Units = 87**

**Note:** Registered health information technician (RHIT) national certification is recommended.

## History

**Award Type** **Units**

### Associate of Arts Degree:

History 18\*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Associate in Arts for Transfer Degree:

History 18–20

### 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 of 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 Program 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.

### Program Learning Outcomes

Students who complete the History Program will gain facility with:

- **Critical Thinking:** Think critically in reading about topics in History, thereby identifying problems, theses, arguments, evidence and conclusions.
- **Communication:** Write or speak about topics in History, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- **Personal Actions and Civic Responsibility:** Demonstrate an ability to understand one's role in society, take responsibility for one's own actions, and make ethical decisions in complex situations.
- **Global Awareness:** Articulate similarities and contrasts among cultures, times, and environments, demonstrating an understanding of cultural pluralism.

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

### Associate of 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	3
<b>and</b>		
HIST 101	World History II	3
<b>or</b>		
HIST 105	Introduction to Western Civilization I	3
<b>and</b>		
HIST 106	Introduction to Western Civilization II	3

#### Select additional six units from the following:

HIST 100	World History I	3
HIST 101	World History II	3
HIST 105	Introduction to Western Civilization I	3
HIST 106	Introduction to Western Civilization II	3
HIST 115A	History of the Americas I	3
HIST 115B	History of the Americas II	3

HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
HIST 123	U.S. History from the Asian Pacific American Perspective	3
HIST 130	The Modern Middle East	3
HIST 131	Latin America Before Independence	3
HIST 132	Latin America Since Independence	3
HIST 141	Women in United States History I	3
HIST 142	Women in United States History II	3
HIST 150	Native Americans in United States History I	3
HIST 151	Native Americans in United States History II	3
HIST 154	Ancient Egypt	3
HIST 175	California History	3
HIST 205	Methodology and Practice in History	3

**Total Units = 18**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

### Associate in Arts in History for Transfer Degree:

The Associate in Arts in History for Transfer Degree is intended for students who plan to complete a bachelor's degree in History or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

#### Program Learning Outcomes:

Students who complete the History Program will gain facility with:

- **Critical Thinking:** Think critically in reading about topics in History, thereby identifying problems, theses, arguments, evidence and conclusions.
- **Communication:** Write or speak about topics in History, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- **Personal Actions and Civic Responsibility:** Demonstrate an ability to understand one's role in society, take responsibility for one's own actions, and make ethical decisions in complex situations.

- **Global Awareness:** Articulate similarities and contrasts among cultures, times, and environments, demonstrating an understanding of cultural pluralism.

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

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

#### Award Notes:

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

<b>Courses Required for the Major:</b>		<b>Units</b>
HIST 109	History of the United States I	3
HIST 110	History of the United States II	3

**Category A: Select two of the following courses. Sequential courses highly recommended (6 units):**

HIST 100	World History I	or	
HIST 105	Introduction to Western Civilization I		3
HIST 101	World History II	or	
HIST 106	Introduction to Western Civilization II		3

**Category B1: Select one of the following courses or any course not selected in Category A (3–5 units):**

AMSL 115	American Sign Language Level I	4
AMSL 116	American Sign Language Level II	4
AMSL 215	American Sign Language Level III	4
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5

FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course In French	5
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
JAPN 101	First Course in Japanese	5
JAPN 102	Second Course in Japanese	5
JAPN 201	Third Course in Japanese	5
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
TAGA 101	First Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5
BLAS 140A	History of the U.S., Black Perspectives	3
BLAS 140B	History of the U.S., Black Perspectives	3
CHIC 141A	United States History from a Chicano Perspective	3
CHIC 141B	United States History from a Chicano Perspective	3
HIST 115A	History of the Americas I	3
HIST 115B	History of the Americas II	3
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
HIST 123	U.S. History from the Asian Pacific American Perspective	3
HIST 130	The Modern Middle East	3
HIST 131	Latin America Before Independence	3
HIST 132	Latin America Since Independence	3
HIST 141	Women in United States History I	3
HIST 142	Women in United States History II	3
HIST 150	Native Americans in United States History I	3
HIST 151	Native Americans in United States History II	3
HIST 154	Ancient Egypt	3
HIST 175	California History	3
POLI 103	Comparative Politics	3
POLI 140	Contemporary International Politics	3
<b>Category B2: Select one of the following courses or any course not selected in Category A (3 units):</b>		
ANTH 103	Introduction to Cultural Anthropology	3

ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3
GEOG 102	Cultural Geography	3
HUMA 106	World Religions	3
POLI 102	Introduction to American Government	3
PSYC 101	General Psychology	3

**Total Units = 18–20**

**Electives as needed to meet maximum 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.**

## Hospitality

Award Type	Units
<b>Certificate of Achievement:</b> Hospitality Management	35
<b>Associate of Science Degree:</b> Hospitality Management	36*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Hotel Management

#### Description

Hospitality management covers a range of topics with a business focus aimed at student success in a variety of accommodation, event and food and beverage segments. Specific emphasis includes business priorities and aspects including, leadership and management specific to the industry, business communications, finance, human resources, legal and legislative requirements for lodging, restaurant and events, and sales and marketing as they

relate to hospitality management. 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, conference centers, camp and private clubs, senior living, cruise lines, and casino hotels, restaurants, bars, corporate events, wedding planning, destination management conferences services. Coursework is supplemented with participation in numerous field excursions and opportunities to hear from industry professionals and experts.

### Program Goals

A core set of hospitality management courses center 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 Michelin star 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. Additionally, you could become an entrepreneur and own a 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

Hospitality 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, corporate events catering, restaurants, nightclubs, concierge, bell staff, housekeeping,

reservations, spas, fitness centers, swimming pool operations, golf courses, meeting planning, wedding planning and management opportunities in most every establishment. Hundreds of 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, finance and revenue management.

Choose your location for a hospitality position in high-rise city center hotels; beach, ski, or golf resorts; boutique venue space; airport properties, casino hotels corporate event position, wedding venue that are local or range from Las Vegas to Monte Carlo; quaint bed and breakfasts; or bustling convention hotels and conference centers. Properties exist with every imaginable amenity from full-service hotels to extended-stay or all-suite facilities with more space and comfortable work and living environments, and to economy lodging. Vacation ownership or timeshare is also a concept that is greatly increasing in number. Opportunities in hospitality and tourism extend far beyond individual restaurants, destination management companies, corporate events, 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.

### Program 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: Hospitality Management

Courses Required for the Major:		Units
HOSP 101	Introduction to Hospitality & Tourism	3
HOSP 102	Hospitality Financial Accounting	3
HOSP 111	Food and Beverage Management	3
HOSP 112	Lodging and Resort Management & Operations	3
HOSP 115	Strategic Leadership in Hospitality	3
HOSP 121	Event & Hospitality Marketing & Sales	3
HOSP 130	Hospitality Law	3
HOSP 152	Hospitality Human Resources	2
HOSP 162	Meeting and Convention Management	3
HOSP 166	Special Event Management and Consulting	3
HOSP 185	Event & Meeting Facilities Management	2
HOSP 190	Hospitality Capstone	2
HOSP 270 <sup>1</sup>	Work Experience	2
<b>Total Units = 35</b>		

<sup>1</sup>Students may complete 150 hours of Departmental approved industry practical training in lieu of this credit requirement.

## Associate of Science Degree: Hospitality Management

Courses Required for the Major:		Units
HOSP 101	Introduction to Hospitality & Tourism	3
HOSP 102	Hospitality Financial Accounting	3
HOSP 111	Food and Beverage Management	3
HOSP 112	Lodging and Resort Management & Operations	3
HOSP 115	Strategic Leadership in Hospitality	3
HOSP 121	Event & Hospitality Marketing & Sales	3
HOSP 130	Hospitality Law	3
HOSP 152	Hospitality Human Resources	2
HOSP 162	Meeting and Convention Management	3
HOSP 166	Special Event Management and Consulting	3
HOSP 185	Event & Meeting Facilities Management	2
HOSP 190	Hospitality Capstone	2

HOSP 270<sup>1</sup> Work Experience 3

**Total Units = 36**

<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 106.

### 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.**

## Humanities

Award Type	Units
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<b>Associate of Arts Degree:</b> Humanities and Religious Studies	18*
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\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Description

The Associate of Arts degree in Humanities and Religious Studies provides students with a uniquely comprehensive preparation for upper-division studies in both General Humanities and Religious Studies. Students who complete this A.A. degree program will exhibit the ability to think critically about global cultures, both past and present. These goals will be achieved through the completion of 18 units in Humanities and related disciplines.

### Program Goals

The Associate of Arts degree in Humanities and Religious Studies will prepare majors for upper-division work in General Humanities and/or Religious Studies. The program's official learning objectives are to develop Critical Thinking and Global Awareness. A more specific statement of these goals is as follows: "Through studying the arts (literature, sculpture, architecture, painting, music, and dance)

and ideas (religion, philosophy, and science) of humanity around the globe, students will be able to think critically about human cultures from Prehistory through the Present."

### Program Emphasis

The Humanities and Religious Studies A.A. Degree emphasizes a comprehensive understanding of the arts and ideas of the human experience.

### Career Options

This program will prepare majors to intelligently engage with local, state, national, and global cultures; and to effectively take part in life-long learning about the human experience. It can lead to careers in teaching, but will also develop knowledge and communication skills that are desired by employers in various fields outside of the Humanities.

### Associate of Arts Degree: Humanities and Religious Studies

Select one six-unit sequence in General Humanities AND one six-unit sequence in Religious Studies.

Courses Required for the Major:	Units
HUMA 101 Introduction to the Humanities I	3
<b>and</b>	
HUMA 102 Introduction to the Humanities II	3
<b>or</b>	
HUMA 118 Eastern Humanities	3
<b>and</b>	
HUMA 119 Western Humanities	3
HUMA 103 Introduction to the New Testament	3
<b>and</b>	
HUMA 104 Introduction to the Old Testament	3
<b>or</b>	
HUMA 106 World Religions	3
<b>and</b>	
HUMA 201 Mythology	3
<b>Note: General Humanities Sequences - HUMA 101 and 102 OR HUMA 118 and 119.</b>	
<b>Religious Studies Sequences - HUMA 103 and 104 OR HUMA 106 and 201</b>	
<b>Select 6 units from the following:</b>	
HUMA 205 Exploring Human Values Through Film	3
HUMA 210 Women in Religion and Myth	3
ENGL 220 Masterpieces of World Literature I: 1500 BCE – 1600 CE	3
ENGL 221 Masterpieces of World Literature II: 1600 – Present	3



ARTF 110	Art History: Prehistoric to Gothic	3
ARTF 111	Art History: Renaissance to Modern	3
HIST 154	Ancient Egypt	3
PHIL 110	Philosophy of Religion	3
<b>Total Units = 18</b>		

## Interior Design

Award Type	Units
<b>Certificate of Achievement:</b>	
Interior Design	47–49
<b>Associate of Science Degree:</b>	
Interior Design	60*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	

### 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).

### Program Goals

The program provides students with technical knowledge and skills, creative problem solving, environmental applications and business practices that will allow them to enter the profession of Interior Design. The program is designed for students wishing to complete an A.S degree or Certificate of Achievement in Interior Design or for students planning on transferring to a university leading to a Bachelor Degree. The A.S. 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 and suggested course sequence, visit our website at [www.sdmesa.edu/interior-design](http://www.sdmesa.edu/interior-design).

### Program Emphasis

The program offers a comprehensive and professionally relevant curriculum. Emphasis is placed on the fundamental relationship between interior design, architecture, and the visual and decorative arts. Students prepare drawings and documents to communicate design intent with other professionals in the field as well as to protect the health, safety and welfare of the public.

### Career Options

The field of interior design encompasses many possible career choices for students. Students study residential and commercial design, lighting design, textiles, and computer aided design. The program encourages students to explore and attend many professional organizations, such as ASID, IIDA, IFDA and NKBA, which continuously exposes them to the many professional areas of design. The program is accredited by the National Kitchen and Bath Association (NKBA) and many graduates enter the kitchen and bath industry.

### Program Learning Outcomes

Students who complete the Interior Design Program successfully will be able to:

**Communication:** Communicate with other professional members of the built environment demonstrating their specialized knowledge of interior construction, building codes, equipment, materials and furnishings, and sustainable and universal design principles.

**Critical Thinking:** Apply critical and design thinking to identify and creatively solve problems relating to the function, aesthetics and quality of the interior environment enhancing the health, safety and welfare of the public.

**Information Literacy:** Perform services relative to interior spaces, including gathering information, programming, space planning, and the creation of drawings and specifications using current technology and practices.

**Global Consciousness, Professional and Ethical Behavior:** Demonstrate knowledge of professional and ethical practices in the field of Interior Design as well as exhibit awareness and an appreciation of cultural diversity regionally, nationally and globally. Demonstrate the ability to work independently and collaboratively within the design community.

## 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.

**The Interior Design Program recommends the following courses be taken in the given sequence for optimal student success:**

<b>Courses Required for the Major:</b>		<b>Units</b>
INTE 101	Introduction to Interior Design	3
INTE 115	Elements and Principles of Interior Design	3
INTE 112A	Visual Communication I	3
INTE 112B	Visual Communication II	3
ARTF 152	Color Theory	3
INTE 145	Interior Building Systems and Codes	3
INTE 120	Revit for Interiors	3
<b>or</b>		
INTE 135	AutoCAD for Interiors	3
INTE 105	Residential Design	3
INTE 210	Presentation and Color Rendering	3
INTE 110	Materials and Resources	3
INTE 125	History of Furniture and Interiors	3
INTE 205	Non-Residential Space Planning	3
INTE 200	Kitchen and Bath Design	3
INTE 215	Environmental Lighting Design	3
INTE 130	Interior Design Professional Practice	3

**Choose one course (two to four units) from the following:**

INTE 270 <sup>1</sup>	Work Experience	1-4
INTE 120 <sup>2</sup>	Revit for Interiors	3
INTE 135 <sup>2</sup>	AutoCAD for Interiors	3
ARCH 101	ArchiCAD	3
ARCH 115	Architectural Model Making	2
ARCH 231	Sustainability in the Built Environment	4
ARTF 161A	Museum Studies/Gallery Exhibition Skills I	3
BLDC 55	Construction Plan Reading	3
BLDC 70	Building Codes and Zoning	3
BUSE 140	Business Law and the Legal Environment	3
BUSE 155	Managing the Small Business	3
COMS 103	Oral Communication	3
MARK 100	Principles of Marketing	3
MULT 100	Introduction to Visual Communication	3

**Total Units = 47-49**

<sup>1</sup>Three to four units is recommended to be completed with a qualified kitchen or bath designer.

<sup>2</sup>Unless taken as a major course

## Associate of Science Degree: Interior Design

The Associate of 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 or transfer to a four year college or university more readily.

**The Interior Design Program recommends the following courses be taken in the given sequence for optimal student success:**

<b>Courses Required for the Major:</b>		<b>Units</b>
INTE 101	Introduction to Interior Design	3
INTE 115	Elements and Principles of Interior Design	3
INTE 112A	Visual Communication I	3
INTE 112B	Visual Communication II	3
ARTF 152	Color Theory	3
INTE 145	Interior Building Systems and Codes	3
INTE 120	Revit for Interiors	3
<b>or</b>		
INTE 135	AutoCAD for Interiors	3
INTE 105	Residential Design	3
INTE 210	Presentation and Color Rendering	3
INTE 110	Materials and Resources	3
INTE 125	History of Furniture and Interiors	3
INTE 205	Non-Residential Space Planning	3
INTE 200	Kitchen and Bath Design	3
INTE 215	Environmental Lighting Design	3
INTE 130	Interior Design Professional Practice	3

**Select 15 units from the following list:**

INTE 270 <sup>1</sup>	Work Experience	1-4
INTE 120 <sup>2</sup>	Revit for Interiors	3
INTE 135 <sup>2</sup>	AutoCAD for Interiors	3
ARCH 101	ArchiCAD	3
ARCH 115	Architectural Model Making	2
ARCH 231	Sustainability in the Built Environment	4
ARTF 161A	Museum Studies/Gallery Exhibition Skills I	3
BLDC 55	Construction Plan Reading	3
BLDC 70	Building Codes and Zoning	3

BUSE 140	Business Law and the Legal Environment	3
BUSE 155	Managing the Small Business	3
COMS 103	Oral Communication	3
MARK 100	Principles of Marketing	3
MULT 100	Introduction to Visual Communication	3
<b>Total Units = 60</b>		

<sup>1</sup>Three to four units of INTE 270 (Work Experience) is recommended for all students. It is recommended for students to complete INTE 270 with a qualified kitchen or bath designer to prepare for a career in Kitchen and Bath design.

<sup>2</sup>Unless previously taken as major course.

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Japanese

Award Type	Units
<b>Associate of Arts Degree:</b> Japanese	26*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### 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.

### Program Learning Outcomes

- Demonstrate level-appropriate proficiency on the ACTFL scale in understanding, speaking, reading, and writing of the targeted language.
- Utilize targeted language skills to complete a general program of lower division coursework,

pursue language study at the transfer level, for personal enrichment, or for professional development.

- Apply knowledge of and sensitivity to aspects of behavior, attitudes, and values of targeted language-speaking countries to connect with the global community.

## Associate of 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
<b>Total Units = 26</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Anthropology 103, 107; Art–Fine Art 109, 111; Chicana and Chicano Studies 135, 138; 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.**

# Journalism

Award Type	Units
<b>Certificate of Achievement</b>	
Journalism	21
<b>Associate of Arts Degree:</b>	
Journalism	21*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Associate in Arts for Transfer Degree:</b>	
Journalism	18

## Description

The Journalism program encompasses theoretical and practical training in print and online news media, including newspapers and online media, as well as in the field of public relations. This program is designed to prepare students for employment in the fields of print and online media and public relations.

Course offerings include: news writing, reporting, editing, and online journalism. 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.

## Program Goals

The goals of the Journalism program include the following:

- Preparing students for entry-level jobs in journalism and public relations.
- Preparing students to be media-literate citizens of the local community and beyond.
- Retraining matriculated students to update skills to meet the changing technological and economic demands in the field.

## Program Emphasis

The Journalism program emphasizes development of skills in grammar, news writing, reporting, editing, production, and public relations for students interested in gaining employment in the area of mass media.

## Career Options

Career options include the following:

1. Reporter
2. News Editor
3. Copy Editor
4. Photojournalist
5. Page Designer
6. Online Content Producer

**Public Relations career options include the following:**

1. Media Relations Specialist
2. Speech Writer
3. Community Relations Specialist
4. Government Relations Specialist
5. Financial Relations Specialist
6. Lobbyist
7. Crisis Communications Specialist

## Program Learning Outcomes

### Media in Society

Demonstrate an understanding of the role of the mass media in society.

### Law and Ethics

Demonstrate understanding of legal issues of libel, privacy, copyright, free speech/press, as well as an understanding of ethical issues such as plagiarism, fabrication, and conflict of interest.

### Writing

Write, edit, and revise stories in accepted journalistic style utilizing multiple platforms.

## Certificate of Achievement: Journalism

The Certificate of Achievement in Journalism recognizes a student's successful completion of select Journalism courses for employment, job enhancement or advancement.

Courses Required for the Major		Units
ENGL 101	Reading and Composition	3
<b>or</b>		
ENGL 105	Composition and Literature	3

JOUR 200	Introduction to Newswriting and Reporting	3
JOUR 210A	Newspaper Production 1	3
JOUR 210B	Newspaper Production 2	3

**Choose 9 units from the following:**

JOUR 210C	Newspaper Production 3	3
JOUR 210D	Newspaper Production 4	3
JOUR 202	Introduction to Mass Communication	3
JOUR 206	Online Journalism	3
JOUR 220	Principles of Public Relations	3

**Total Units = 21**

## Associate of Arts Degree: Journalism

Courses Required for the Major		Units
ENGL 101	Reading and Composition	3
<b>or</b>		
ENGL 105	Composition and Literature	3
JOUR 200	Introduction to Newswriting and Reporting	3
JOUR 210A	Newspaper Production 1	3
JOUR 210B	Newspaper Production 2	3

**Choose nine units from the following:**

JOUR 210C	Newspaper Production 3	3
JOUR 210D	Newspaper Production 4	3
JOUR 202	Introduction to Mass Communication	3
JOUR 206	Online Journalism	3
JOUR 220	Principles of Public Relations	3

**Total Units = 21**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate in Arts in Journalism for Transfer Degree:

The Associate in Arts in Journalism for Transfer Degree is intended for students who plan to complete a bachelor's degree in Journalism or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

### Goals

The purpose of this Associate in Arts in Journalism for Transfer Degree program in Journalism is to offer an organized course of study that will prepare students intending to major in Journalism Studies at the California State University.

### Program Learning Outcomes:

#### Critical Thinking:

- Students will be able to analyze and weigh the truth-value of conflicting claims.
- Students will be able to synthesize elements of texts in surprising and unexpected ways.

#### Rhetorical Awareness:

- Students will be able to develop visual literacy to identify arguments for advertisements, websites, photographs and other visual media.
- Students will be able to write clear, thoughtful prose using appropriate steps of a writing process for a variety of media.
- 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 select appropriate research strategies.

#### Global Awareness:

- Students will be able to describe and report using multiple perspectives.
- Students will be able to analyze and report on 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

#### Award Notes:

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

<b>Courses Required for the Major:</b>	<b>Units</b>
JOUR 200 Introduction to Newswriting and Reporting	3
JOUR 202 Introduction to Mass Communication	3
JOUR 210A Newspaper Production 1	3

**Category A: Select one of the following courses (3 units):**

JOUR 206 Online Journalism	3
JOUR 210B Newspaper Production 2	3
JOUR 220 Principles of Public Relations	3

**Category B: Select two of the following courses, or any course not selected in Category A (6 units):**

ARTF 150B Beginning Graphic Design	3
DRAM 150 Cinema as Art and Communication I	3
ECON 120 Principles of Macroeconomics	3
<b>or</b>	
ECON 121 Principles of Microeconomics	3
ENGL 101 Reading and Composition	3
ENGL 105 Composition and Literature	3
ENGL 205 Critical Thinking and Intermediate Composition	3
MATH 119 Elementary Statistics	3
<b>or</b>	
PSYC 258 Behavioral Science Statistics	3
POLI 101 Introduction to Political Science	3
POLI 102 Introduction to American Government	3
PSYC 101 General Psychology	3
SOCO 101 Principles of Sociology	3

**Total Units = 18**

**Electives as needed to meet maximum 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 a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Liberal Arts

<b>Award Type</b>	<b>Units</b>
<b>Certificate of Achievement:</b>	
Honors Global Competencies	20

### Honors Global Competencies

#### Description

The Honors Global Competencies Certificate of Achievement 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, and technology skills. This certificate helps students to transfer to four-year institutions in concert with the Honors designation. It prepares students for study and work throughout the world 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 Goals

An Honors Global Competencies Certificate of Achievement offers students the opportunity to gain a global perspective in multiple areas of study to enhance their critical thinking and intercultural competencies in order to compete in today's global economy. It is useful for those students considering careers in numerous fields, including law, politics, international affairs, education, and social service. All courses in the certificate program are UC &/or CSU transferable and emphasize areas such as intercultural issues; globalization; world philosophical, political, economic, and social systems; and international relations. The certificate

program also underscores the mission of San Diego Mesa College: “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.”

For the San Diego Mesa College Associate Degree one of the core six Program Learning Outcomes is Global Awareness, “the ability to articulate similarities and contrasts among cultures, times and environments, demonstrating understanding of cultural pluralism and knowledge of global issues.” This proposal for an Honors Global Competencies Certificate of Achievement connects the college’s vision and values of diversity and the student learning outcome of Global Awareness.

There is a strong international emphasis in the certificate program. Program goals and objectives include:

- Contemplation and assessment of the interconnectedness of cultures and nations through time.
- Exploration of world ecologies and technologies.
- Analysis of economic, political, and social systems.
- Proficiency in world languages.
- Exposure to an array of world customs, religions, and literature through campus activities and speaker series.
- Recognition, anticipation, and management of change.
- Providing leadership opportunities.

### Program Emphasis

The Honors Global Competencies Certificate of Achievement has an international emphasis.

### Career Options

The Honors Global Competencies Certificate of Achievement 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.

### Program Learning Outcomes

Students who complete the Honors Global Competencies 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 Achievement: Honors Global Competencies

The Honors Global Competencies Certificate of Achievement offers students the opportunity to gain a global perspective through completion of coursework in intercultural competencies, communication skills, and technology skills.

### **Courses Required for the Major** **Units**

#### **Critical Thinking – Select 3 units required for the major:**

COMS 135	Interpersonal Communication	3
COMS 180	Intercultural Communication	3
ENGL 205	Critical Thinking and Intermediate Composition	3
ENGL 208	Introduction to Literature	3
MATH 118	Math for the Liberal Arts Student	3
MATH 119	Elementary Statistics	3
PHIL 100	Logic and Critical Thinking	3
PHIL 101	Symbolic Logic	3
PHIL 205	Critical Thinking and Writing in Philosophy	3
SOCO 201	Advanced Principles of Sociology	3
SOCO 223	Globalization and Social Change	3

#### **Languages – Select 5 units from the following:**

CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
CHIN 202	Fourth Course in Mandarin Chinese	5
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
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
JAPN 101	First Course in Japanese	5

JAPN 102	Second Course in Japanese	5	ARTF 191	Cultural Influences on Photography	3
JAPN 201	Third Course in Japanese	5	BIOL 100	Natural History - Environmental Biology	4
JAPN 202	Fourth Course in Japanese	5	BIOL 110	Introduction to Oceanography	3
LATI 101	First Course in Latin	5	BIOL 115	Marine Biology	4
LATI 102	Second Course in Latin	5	BLAS 100	Introduction to Black Studies	3
LATI 201	Third Course in Latin	5	BLAS 104	Black Psychology	3
RUSS 101	First Course in Russian	5	BLAS 110	African American Art	3
RUSS 102	Second Course in Russian	5	BLAS 111	Cultural Influences on African Art	3
RUSS 201	Third Course in Russian	5	BLAS 116	Contemporary Social Problems from a Black Perspective	3
SPAN 101	First Course in Spanish	5	BLAS 120	Black Music	3
SPAN 102	Second Course in Spanish	5	BLAS 125	Dynamics of the Black Community	3
SPAN 201	Third Course in Spanish	5	BLAS 130	The Black Family	3
SPAN 202	Fourth Course in Spanish	5	BLAS 140A	History of the U.S., Black Perspectives	3
SPAN 215	Spanish for Spanish Speakers I	5	BLAS 140B	History of the U.S, Black Perspectives	3
SPAN 216	Spanish for Spanish Speakers II	5	BLAS 150	Black Women in Literature, Film and the Media	3
TAGA 101	First Course in Tagalog	5	BLAS 155	African American Literature	3
TAGA 102	Second Course in Tagalog	5	BLAS 165	Sexuality and Black Culture	3
TAGA 201	Third Course in Tagalog	5	BLAS 175	Psycho-History of Racism and Sexism	3
VIET 101	First Course in Vietnamese	5	BUSE 119	Business Communications	3
VIET 102	Second Course in Vietnamese	5	BUSE 150	Human Relations in Business	3
VIET 201	Third Course in Vietnamese	5	CHEM 111	Chemistry in Society	3
<b>or</b>					
AMSL 115	American Sign Language Level I	4	CHIC 110A	Introduction to Chicana and Chicano Studies	3
<b>and</b>					
AMSL 115L	American Sign Language I (Lab)	1	CHIC 110B	Introduction to Chicano Studies	3
<b>or</b>					
AMSL 116	American Sign Language Level II	4	CHIC 135	Chicana/o Literature	3
<b>and</b>					
AMSL 116L	American Sign Language II (Lab)	1	CHIC 138	Literature of La Raza in Latin America in Translation	3
<b>Global Studies – Select a minimum of 12 units from four different disciplines:</b>					
AMSL 150	Introduction to Deaf Culture	3	CHIC 141A	United States History from a Chicano Perspective	3
ANTH 102	Introduction to Biological Anthropology	3	CHIC 141B	United States History from a Chicano Perspective	3
ANTH 103	Introduction to Cultural Anthropology	3	CHIC 150	History of Mexico	3
ANTH 120	Archaeological Artifact Analysis	3	CHIC 170	La Chicana	3
ANTH 200	Introduction to North American Indians	3	CHIC 190	Chicano Images in Film	3
ANTH 215	Cultures of Latin America	3	CHIC 201	The Indigenous Tradition of Mexico and Ancient Mesoamerica	3
ARCH 126	History of Ancient World Architecture	3	CHIC 210	Chicano Culture	3
ARCH 127	History of World Architecture: Renaissance Through Contemporary	3	CHIC 230	Chicano Art	3
ARTF 107	Contemporary Art	3	DRAM 105	Introduction to Dramatic Arts	3
ARTF 109	Modern Art	3	DRAM 112	Introduction to Script Analysis	3
ARTF 110	Art History: Prehistoric to Gothic	3	DRAM 150	Cinema as Art and Communication I	3
ARTF 111	Art History: Renaissance to Modern	3	DRAM 151	Cinema as Art and Communication II	3
ARTF 113	Arts of Africa, Oceania, and the Americas	3	ENGL 209	Literary Approaches to Film	3
ARTF 115	African Art	3	ENGL 220	Masterpieces of World Literature I: 1500 BCE – 1600 CE	3
ARTF 120	Native American Art	3	ENGL 221	Masterpieces of World Literature II: 1600 – Present	3
ARTF 125	Art History: Arts of the Asian Continent	3	ENGL 230	Asian American Literature	3
ARTF 130	Pre-Columbian Art	3	GEOG 102	Cultural Geography	3
			GEOG 104	World Regional Geography	3



GEOL 100	Physical Geology	3
GEOL 104	Earth Science	3
HEAL 101	Health and Life Style	3
HIST 100	World History I	3
HIST 101	World History II	3
HIST 115A	History of the Americas I	3
HIST 115B	History of the Americas II	3
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
HIST 123	U.S. History from the Asian Pacific American Perspective	3
HIST 130	The Modern Middle East	3
HIST 131	Latin America Before Independence	3
HIST 132	Latin America Since Independence	3
HIST 141	Women in United States History I	3
HIST 150	Native Americans in United States History I	3
HIST 151	Native Americans in United States History II	3
HIST 154	Ancient Egypt	3
HUMA 101	Introduction to the Humanities I	3
HUMA 102	Introduction to the Humanities II	3
HUMA 103	Introduction to the New Testament	3
HUMA 104	Introduction to the Old Testament	3
HUMA 106	World Religions	3
HUMA 201	Mythology	3
HUMA 205	Exploring Human Values Through Film	3
JOUR 202	Introduction to Mass Communication	3
MUSI 100	Introduction to Music	3
MUSI 109	World Music	3
MUSI 125	Music, the Arts, and Society	3
NUTR 153	Cultural Foods	3
PHIL 103	Historical Introduction To Philosophy	3
PHIL 104A	History Of Western Philosophy: Ancient to Medieval	3
PHIL 104B	History of Western Philosophy: Modern to Contemporary	3
PHIL 106	Asian Philosophy	3
PHIL 107	Reflections on Human Nature	3
PHIL 108	Perspectives on Human Nature and Society	3
PHIL 109	Issues in Social Philosophy	3
PHIL 110	Philosophy of Religion	3
PHIL 125	Philosophy of Women	3
PHIL 130	Philosophy of Art and Music	3
POLI 101	Introduction to Political Science	3
POLI 103	Comparative Politics	3
POLI 140	Contemporary International Politics	3
PSYC 101	General Psychology	3
PSYC 112	Interpersonal Relations	3
PSYC 133	Psychology of Women	3
PSYC 135	Marriage and Family Relations	3
PSYC 137	Human Sexual Behavior	3

PSYC 166	Introduction to Social Psychology	3
PSYC 230	Psychology of Lifespan Development	3
PSYC 245	Abnormal Psychology	3
SOCO 101	Principles of Sociology	3
SOCO 110	Contemporary Social Problems	3

**Total Units = 20**

### **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>Certificate of Achievement:</b>	
CSU General Education (CSU-GE-Breadth)	39–44
Intersegmental General Education Transfer Curriculum (IGETC)	37–40
<b>Associate of Arts Degree:</b>	
Art Studies—Art	18*
Business Studies	18*
Language Arts and Humanities—Chinese	18*
Language Arts and Humanities—French	18*
Language Arts and Humanities—German	18*
Language Arts and Humanities—Italian	18*
Language Arts and Humanities—Japanese	18*
Language Arts and Humanities—Philosophy	18*
Language Arts and Humanities—Russian	18*
Language Arts and Humanities—Spanish	18*
Language Arts and Humanities—Vietnamese	18*
Mathematics and Pre-Engineering—Computer Science	18*
Mathematics and Pre-Engineering—Engineering	18*
Mathematics and Pre-Engineering—Mathematics	18*
Science Studies—Biological Science	18*
Science Studies—Chemistry	18*
Science Studies—Kinesiology and Nutrition	18*
Science Studies—Physics	18–20*
Science Studies—Pre-Nursing	20*
Science Studies—Psychology	18*
Social and Behavioral Sciences—Anthropology	18*
Social and Behavioral Sciences—Child Development	18*
Social and Behavioral Sciences—Economics	18*
Social and Behavioral Sciences—History	18*
Social and Behavioral Sciences—Human Development	18*
Social and Behavioral Sciences—Political Science	18*
Social and Behavioral Sciences—Psychology	18*
Social and Behavioral Sciences—Social Sciences	18*
Social and Behavioral Sciences—Sociology	18*
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 of 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:

- 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 108.
  - 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 138.
  - 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 129.

It is strongly recommended that students consult with a counselor to determine which General Education option is most appropriate for their individual education goals.

- 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.

### **Certificate of Achievement: CSU General Education (CSU-GE- Breadth)**

The Certificate of Achievement in California State Universities General Education Breadth Requirements - Certification Pattern is designed for students who intend to complete lower division university general education requirements prior to transfer to a CSU.

General Education (GE) is a set of courses from a variety of different subject areas that every student must complete in order to earn a degree, regardless of major. The goal is to provide a well rounded or “liberal” education and to develop the knowledge, skills, and attitudes that together help make up an educated person. The completion of GE prior to transfer may not be required for admission to some universities. However, it is usually in the student’s

best interest to complete an appropriate transfer GE pattern at the community college. This is because GE requirements that are not fulfilled prior to transfer must be completed later at the university, which often extends the time and expense of a university education.

#### **Program Emphasis**

Certificate of Achievement: CSU General Education Breadth Requirements - Certification Pattern. Students will select courses that fulfill the CSU GE Breadth Certification Pattern detailed in the Transfer Guide section of this catalog.

### **Certificate of Achievement: Intersegmental General Education Transfer Curriculum (IGETC)**

The Certificate of Achievement in Intersegmental General Education Transfer (IGETC) is designed for students who intend to complete university general education requirements prior to transfer to a California State University (CSU) or University of California (UC) campus.

General Education (GE) is a set of courses from a variety of different subject areas that every student must complete in order to earn a degree, regardless of major. The goal is to provide a well rounded or “liberal” education and to develop the knowledge, skills, and attitudes that together help make up an educated person. The completion of GE prior to transfer is not required for admission to most universities. However it is usually in the student’s best interest to complete an appropriate transfer GE pattern at the community college. This is because GE requirements that are not fulfilled prior to transfer must be completed later at the university, which often extends the time and expense of a university education.

#### **Program Emphasis:**

Certificate of Achievement: Intersegmental General Education Transfer (IGETC)  
The student will select courses that fulfill the IGETC certification pattern detailed in the Transfer Guide section of this catalog.

## **Art Studies**

The Art Studies 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.

### Program Learning Outcomes

Students who complete the Liberal Arts and Sciences with an emphasis in Arts 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 of Arts Degree: Liberal Arts and Sciences: Art Studies—Art

The Art Studies - Art 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.

### Required Courses: Units

#### Core courses (9 units)

ARTF 110	Art History: Prehistoric to Gothic	3
ARTF 111	Art History: Renaissance to Modern	3
ARTF 150A	Two-Dimensional Design	3

#### Select a minimum of 9 units:

ARTF 100	Art Orientation	3
ARTF 107	Contemporary Art	3
ARTF 109	Modern Art	3
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
ARTF 130	Pre-Columbian Art	3
ARTF 150B	Beginning Graphic Design	3
ARTF 151	Three-Dimensional Design	3
ARTF 155A	Freehand Drawing I	3
ARTF 155B	Freehand Drawing II	3
ARTF 161A	Museum Studies/Gallery Exhibition Skills I	3
ARTF 161B	Museum Studies/Gallery Exhibition Skills II	3
ARTF 165A	Composition in Painting I	3
ARTF 165B	Composition in Painting II	3
ARTF 165C	Composition in Painting III	3
ARTF 165D	Composition in Painting IV	3
ARTF 174A	Book Arts I	3
ARTF 175A	Sculpture I	3
ARTF 175B	Sculpture II	3
ARTF 175C	Sculpture III	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 198B	Introduction to Printmaking II	3
ARTF 198C	Introduction to Printmaking III	3
ARTF 205A	Installation, Performance and New Genres	3
ARTF 210A	Life Drawing I	3
ARTF 210B	Life Drawing II	3
ARTF 210C	Life Drawing III	3
ARTF 220A	Life Sculpture I	3
ARTF 220B	Life Sculpture II	3
ARTF 220C	Life Sculpture III	3
ARTF 231	Introduction to Digital Art	3
ARTF 233	Introduction to Digital Photographic Imaging	3

**Total Units = 18**

## Business Studies

The Business Studies 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.

### Program 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 of Arts Degree: Liberal Arts and Sciences: Business Studies

The Business Studies 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 101	Business Mathematics	3
BUSE 115	Statistics for Business	3
BUSE 119	Business Communications	3
BUSE 120	Principles of Money Management	3
BUSE 127	Social Media for Business	3
BUSE 129	Introduction to Entrepreneurship	3
BUSE 140	Business Law and the Legal Environment	3
BUSE 190	Academic and Career Opportunities in Business	1
CHIC 141A	United States History from a Chicano Perspective	3
CHIC 141B	United States History from a Chicano Perspective	3
CISC 181	Principles of Information Systems	4
HIST 100	World History I	3
HIST 101	World History II	3
HIST 105	Introduction to Western Civilization I	3

HIST 109	History of the United States I	3
HIST 110	History of the United States II	3
HIST 115A	History of the Americas I	3
HIST 115B	History of the Americas II	3
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian civilizations in Modern Times	3
HOSP 101	Introduction to Hospitality & Tourism	3
MATH 116	College and Matrix Algebra	3
MATH 119	Elementary Statistics	
MATH 121	Basic Techniques of Applied Calculus I	3
MATH 122	Basic Techniques of Applied Calculus II	3
MATH 150	Calculus with Analytic Geometry I	5
POLI 102	Introduction to American Government	3
PSYC 101	General Psychology	3
PSYC 258	Behavioral Science Statistics	3
SOCO 101	Principles of Sociology	3

or

Any Foreign Language Course, Including AMSL

**Total Units = 18**

## Language Arts and Humanities

The Language Arts and Humanities 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.

### Program 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 of Arts Degree: Liberal Arts and Sciences: Language Arts and Humanities— Chinese

The Language Arts and Humanities—Chinese 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

##### Core courses (15 units)

CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5

##### Select a minimum of 3 units

CHIC 135	Chicana/o Literature	3
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CHIC 138	Literature of La Raza in Latin America in Translation	3
COMS 135	Interpersonal Communication	3
COMS 170	Small Group Communication	3
ENGL 202	Introduction to Linguistics	3
ENGL 215	English Literature I: 800 – 1799	3
ENGL 216	English Literature II: 1800 – Present	3
FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course in French	5
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
JAPN 102	Second Course in Japanese	5
JAPN 201	Third Course in Japanese	5
JAPN 101	First Course in Japanese	5
JOUR 202	Introduction to Mass Communication	3
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5

**Total Units = 18**

### Associate of Arts Degree: Liberal Arts and Sciences: Language Arts and Humanities— French

The Language Arts and Humanities—French 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.

#### **Required Courses:**

##### **Core courses (15 units)**

FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course In French	5

##### **Select a minimum of 3 units**

CHIC 135	Chicana/o Literature	3
CHIC 138	Literature of La Raza in Latin America in Translation	3
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
COMS 135	Interpersonal Communication	3
COMS 170	Small Group Communication	3
ENGL 202	Introduction to Linguistics	3
ENGL 215	English Literature I: 800 – 1799	3
ENGL 216	English Literature II: 1800 – Present	3
FREN 202	Fourth Course in French	5
FREN 210	Conversation and Composition in French I	3
FREN 211	Conversation and Composition French II	3
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
JAPN 101	First Course in Japanese	5
JAPN 102	Second Course in Japanese	5
JAPN 201	Third Course in Japanese	5
JOUR 202	Introduction to Mass Communication	3
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5

VIET 201	Third Course in Vietnamese	5
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**Total Units = 18**

## Associate of Arts Degree: Liberal Arts and Sciences: Language Arts and Humanities— German

The Language Arts and Humanities—German 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

#### Core courses (15 units)

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	3
CHIC 138	Literature of La Raza in Latin America in Translation	3
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
COMS 135	Interpersonal Communication	3
COMS 170	Small Group Communication	3
ENGL 202	Introduction to Linguistics	3
ENGL 215	English Literature I: 800 – 1799	3
ENGL 216	English Literature II: 1800 – Present	3
FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course in French	5
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
JAPN 101	First Course in Japanese	5
JAPN 102	Second Course in Japanese	5
JAPN 201	Third Course in Japanese	5
JOUR 202	Introduction to Mass Communication	3
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5

LATI 201	Third Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5

**Total Units = 18**

## Associate of Arts Degree: Liberal Arts and Sciences: Language Arts and Humanities— Italian

The Language Arts and Humanities—Italian 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

#### Core courses (15 units)

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	3
CHIC 138	Literature of La Raza in Latin America in Translation	3
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
COMS 135	Interpersonal Communication	3
COMS 170	Small Group Communication	3
ENGL 202	Introduction to Linguistics	3
ENGL 215	English Literature I: 800 – 1799	3
ENGL 216	English Literature II: 1800 – Present	3
FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course in French	5



GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
JAPN 101	First Course in Japanese	5
JAPN 102	Second Course in Japanese	5
JAPN 201	Third Course in Japanese	5
JOUR 202	Introduction to Mass Communication	3
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5

**Total Units = 18**

### Associate of Arts Degree: Liberal Arts and Sciences: Language Arts and Humanities— Japanese

The Language Arts and Humanities—Japanese 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.

<b>Required Courses:</b>		<b>Units</b>
<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
<b>Select a minimum of 3 units</b>		
CHIC 135	Chicana/o Literature	3

CHIC 138	Literature of La Raza in Latin America in Translation	3
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
COMS 135	Interpersonal Communication	3
COMS 170	Small Group Communication	3
ENGL 202	Introduction to Linguistics	3
ENGL 215	English Literature I: 800 – 1799	3
ENGL 216	English Literature II: 1800 – Present	3
FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course in French	5
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
JAPN 202	Fourth Course in Japanese	5
JOUR 202	Introduction to Mass Communication	3
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5

**Total Units = 18**

### Associate of Arts Degree: Liberal Arts and Sciences: Language Arts and Humanities— Philosophy

The Language Arts and Humanities—Philosophy 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.

**COURSES REQUIRED FOR THE MAJOR:**

PHIL 102A	Introduction to Philosophy: Reality and Knowledge	3
PHIL 102B	Introduction to Philosophy: Values*	3
<b>Select a minimum of 12 units:</b>		
PHIL 100	Logic and Critical Thinking	3
PHIL 101	Symbolic Logic	3
PHIL 103	Historical Introduction To Philosophy	3
PHIL 104A	History Of Western Philosophy: Ancient to Medieval	3
PHIL 104B	History of Western Philosophy: Modern to Contemporary	3
PHIL 105	Contemporary Philosophy	3
PHIL 106	Asian Philosophy	3
PHIL 107	Reflections on Human Nature	3
PHIL 108	Perspectives on Human Nature and Society	3
PHIL 109	Issues in Social Philosophy	3
PHIL 110	Philosophy of Religion	3
PHIL 111	Philosophy In Literature	3
PHIL 112	Philosophy of Science	3
PHIL 125	Philosophy of Women	3
PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	3
PHIL 130	Philosophy of Art and Music	3
PHIL 131	Environmental Ethics	3
PHIL 205	Critical Thinking and Writing in Philosophy	3
HUMA 101	Introduction to the Humanities I	3
HUMA 103	Introduction to the New Testament	3
HUMA 104	Introduction to the Old Testament	3
HUMA 201	Mythology	3

**Total Units = 18**

**Associate of Arts Degree:  
Liberal Arts and Sciences:  
Language Arts and Humanities—  
Russian**

The Language Arts and Humanities—Russian 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.

**Required Courses: Units**

**Core courses (15 units)**

RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5

**Select a minimum of 3 units**

CHIC 135	Chicana/o Literature	3
CHIC 138	Literature of La Raza in Latin America in Translation	3
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
COMS 135	Interpersonal Communication	3
COMS 170	Small Group Communication	3
ENGL 202	Introduction to Linguistics	3
ENGL 215	English Literature I: 800 – 1799	3
ENGL 216	English Literature II: 1800 – Present	3
FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course in French	5
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
JAPN 101	First Course in Japanese	5
JAPN 102	Second Course in Japanese	5
JAPN 201	Third Course in Japanese	5
JOUR 202	Introduction to Mass Communication	3
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5

**Total Units = 18**

## Associate of Arts Degree: Liberal Arts and Sciences: Language Arts and Humanities— Spanish

The Language Arts and Humanities—Spanish 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>Courses required for the major:</b>		<b>Units</b>
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish <b>or</b>	
SPAN 215	Spanish for Spanish Speakers I	5

### Select a minimum of 3 units

CHIC 135	Chicana/o Literature	3
CHIC 138	Literature of La Raza in Latin America in Translation	3
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
COMS 135	Interpersonal Communication	3
COMS 170	Small Group Communication	3
ENGL 202	Introduction to Linguistics	3
ENGL 215	English Literature I: 800-1799	3
ENGL 216	English Literature II: 1800 - Present	3
FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course In French	5
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
JAPN 101	First Course in Japanese	5
JAPN 102	Second Course in Japanese	5
JAPN 201	Third Course in Japanese	5
JOUR 202	Introduction to Mass Communication	3
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5

RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 202	Fourth Course in Spanish	5
SPAN 210	Conversation and Composition Spanish I	3
SPAN 211	Conversation and Composition Spanish II	3
SPAN 216	Spanish for Spanish Speakers II	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5

**Total Units = 18**

## Associate of Arts Degree: Liberal Arts and Sciences: Language Arts and Humanities— Vietnamese

The Language Arts and Humanities—Vietnamese 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.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (15 units)</b>		
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	3
CHIC 138	Literature of La Raza in Latin America in Translation	3
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
COMS 135	Interpersonal Communication	3
COMS 170	Small Group Communication	3
ENGL 202	Introduction to Linguistics	3
ENGL 215	English Literature I: 800-1799	3
ENGL 216	English Literature II: 1800 - Present	3

FREN 101	First Course in French	5
FREN 102	Second Course in French	5
FREN 201	Third Course In French	5
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
HIST 120	Introduction to Asian Civilizations	3
HIST 121	Asian Civilizations in Modern Times	3
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
JAPN 101	First Course in Japanese	5
JAPN 102	Second Course in Japanese	5
JAPN 201	Third Course in Japanese	5
JOUR 202	Introduction to Mass Communication	3
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5

**Total Units = 18**

## Mathematics and Pre-Engineering

The Mathematics and Pre-Engineering 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.

### Program 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 of Arts Degree: Liberal Arts and Sciences: Mathematics and Pre-Engineering—Mathematics

The Mathematics and Pre-Engineering—Mathematics 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

#### Core courses (13 units)

MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4

#### Select a minimum of 5 units

CISC 190	Java Programming	4
CISC 192	C/C++ Programming	4

MATH 119	Elementary Statistics	3
MATH 245	Discrete Mathematics	3
MATH 254	Introduction to Linear Algebra	3
MATH 255	Differential Equations	3

**Total Units = 18**

### Associate of Arts Degree: Liberal Arts and Sciences: Mathematics and Pre-Engineering—Computer Science

The Mathematics and Pre-Engineering—Computer Science 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

##### Core courses (13 units)

MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4

##### Select a minimum of 5 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	3
CHEM 200L	General Chemistry I – Laboratory	2
CHEM 201	General Chemistry II – Lecture	3
CHEM 201L	General Chemistry II – Laboratory	2
CISC 190	Java Programming	4
CISC 192	C/C++ Programming	4
MATH 119	Elementary Statistics	3
MATH 245	Discrete Mathematics	3
MATH 254	Introduction to Linear Algebra	3
MATH 255	Differential Equations	3
PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5

**Total Units = 18**

### Associate of Arts Degree: Liberal Arts and Sciences: Mathematics and Pre-Engineering—Engineering

The Mathematics and Pre-Engineering—Engineering 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

##### Core courses (15 units)

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

##### Select a minimum of 3 units

CHEM 201	General Chemistry II – Lecture	3
CHEM 201L	General Chemistry II – Laboratory	2
ENGE 116	Computational Methods in Engineering	3
ENGE 200	Statics	3
ENGE 210	Properties of Materials	3
ENGE 250	Dynamics	3
ENGE 260	Electric Circuits	3
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4
MATH 245	Discrete Mathematics	3
MATH 254	Introduction to Linear Algebra	3
MATH 255	Differential Equations	3
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5
CISC 190	Java Programming	4
CISC 192	C/C++ Programming	4

**Total Units = 18**

## Science Studies

The Science Studies 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.

### Program 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 of Arts Degree: Liberal Arts and Sciences: Science Studies—Biological Science

The Science Studies—Biological Science 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:

#### Core courses (8 units)

	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	3
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
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 Quantitative Analytical Chemistry	5
CISC 186 Visual Basic Programming	4
CISC 189A Introduction to Programming I	4
CISC 189B Introduction to Programming II	4
CISC 190 Java Programming	4
CISC 192 C/C++ Programming	4
MATH 119 Elementary Statistics	3
MATH 121 Basic Techniques of Applied Calculus I	3
MATH 122 Basic Techniques of Applied Calculus II	3
MATH 150 Calculus with Analytic Geometry I	5
MATH 151 Calculus with Analytic Geometry II	4
PHYS 125 General Physics	5
PHYS 126 General Physics II	5
PHYS 195 Mechanics	5
PHYS 196 Electricity and Magnetism	5
PHYS 197 Waves, Optics and Modern Physics	5

**Total Units = 18**

### Associate of Arts Degree: Liberal Arts and Sciences: Science Studies—Chemistry

The Science Studies—Chemistry 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.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (10 units)</b>		
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

<b>Select a minimum of 8 units</b>		
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	Quantitative Analytical Chemistry	5
CISC 186	Visual Basic Programming	4
CISC 189A	Introduction to Programming I	4
CISC 189B	Introduction to Programming II	4
CISC 190	Java Programming	4
CISC 192	C/C++ Programming	4
MATH 119	Elementary Statistics	3
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
MATH 255	Differential Equations	3
PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5
		<b>Total Units = 18</b>

### Associate of Arts Degree: Liberal Arts and Sciences: Science Studies—Physics

The Science Studies—Physics 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.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (15 units)</b>		
PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5
<b>Select a minimum of 3 units</b>		
CHEM 200	General Chemistry I – Lecture	3
CHEM 200L	General Chemistry I – Laboratory	2
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>Total Units = 18–20</b>

### Associate of Arts Degree: Liberal Arts and Sciences: Science Studies—Pre-Nursing

The Science Studies—Pre-Nursing 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.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses (17 units)</b>		
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
<b>Select a minimum of 3 units</b>		
BIOL 235	Human Physiology	4
CHEM 130	Introduction to Organic and Biological Chemistry	3
CHEM 130L	Introduction to Organic and Biological Chemistry Laboratory	1
COMS 103	Oral Communication	3
PSYC 101	General Psychology	3
SOCO 101	Principles of Sociology	3
		<b>Total Units = 20</b>

## Associate of Arts Degree: Liberal Arts and Sciences: Science Studies—Kinesiology and Nutrition

The Science Studies—Kinesiology and Nutrition focus 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	3
CHEM 100L	Fundamentals of Chemistry Laboratory	1
<b>or</b>		
CHEM 152	Introduction to General Chemistry and	3
CHEM 152L	Introduction to General Chemistry Laboratory	1
BIOL 230	Human Anatomy	4
<b>Select a minimum of 6 units:</b>		
ACCT 116A	Financial Accounting	4
BIOL 205	General Microbiology	5
BIOL 210A	Introduction to the Biological Sciences I	4
CHEM 130	Introduction to Organic and Biological Chemistry	3
CHEM 130L	Introduction to Organic and Biological Chemistry Laboratory	1
CHEM 160	Introductory Biochemistry	3
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
EXSC 139A	Weight Training I	0.5–1
EXSC 241B	Introduction to Kinesiology	3
EXSC 242B	Care and Prevention of Injuries	3
NUTR 150	Nutrition	3
NUTR 155	Advanced Nutrition	3
NUTR 170	Nutrition and Fitness	3

PHYS 125	General Physics	5
PHYS 126	General Physics II	5
PSYC 101	General Psychology	3
PSYC 258	Behavioral Science Statistics	3
SOCO 101	Principles of Sociology	3

**Total Units = 18**

## Associate of Arts Degree: Liberal Arts and Sciences: Science Studies—Psychology\*

The Science Studies—Psychology 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	3
<b>and</b>		
MATH 122	Basic Techniques of Applied Calculus II	3
<b>or</b>		
MATH 150	Calculus with Analytic Geometry I	5
<b>and</b>		
MATH 151	Calculus with Analytic Geometry II	4
<b>and</b>		
MATH 252	Calculus with Analytic Geometry III	4
<b>Select a minimum of 5 units (total of 18 units)</b>		
BIOL 107	General Biology – Lecture and Laboratory	4
BIOL 210A	Introduction to the Biological Sciences I	4
BIOL 210B	Introduction to the Biological Sciences II	4
CHEM 100	Fundamentals of Chemistry	3
CHEM 100L	Fundamentals of Chemistry Laboratory	1
CHEM 152	Introduction to General Chemistry	3
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
CISC 182	Fluency with Information Technology	4
CISC 190	Java Programming	4



PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5
<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 Sciences - Women's Studies degree is an interdisciplinary exploration of the past, present, and future through the perspectives and experiences of women in the United States and around the world. The courses in the degree explore how women's lives have been and continue to be impacted by cultural, political, and economic hegemonies, and examine the actions taken by women as they have sought to make an impact in their society. The Women's Studies curriculum examines the divergent experiences of women through the lens of race, ethnicity, class, nationality, religion, and sexual orientation through a historical and modern perspective.

### Program 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 of Arts Degree: Liberal Arts and Sciences: Social and Behavioral Sciences— Anthropology

The Social and Behavioral Sciences—Anthropology 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.

### Required Courses: Units

#### Core courses (6 units)

ANTH 102	Introduction to Biological Anthropology	3
ANTH 103	Introduction to Cultural Anthropology	3

#### Select a minimum of 12 units

BIOL 210A	Introduction to the Biological Sciences I	4
BIOL 210B	Introduction to the Biological Sciences II	4
CBTE 140	Beginning Microsoft Excel	2
CBTE 151	Microsoft Access: Basic	1
LIBS 101	Information Literacy and Research Skills	1
MATH 119	Elementary Statistics	3
<b>or</b>		
PSYC 258	Behavioral Science Statistics	3
WEBD 152	Beginning Web Development: HyperText Markup Language (HTML) and Cascading Style Sheets (CSS)	3
<b>or</b>		

Any Foreign Language course, including AMSL

**Total Units = 18**

## Associate of Arts Degree: Liberal Arts and Sciences: Social and Behavioral Sciences—Child Development

The Social and Behavioral Sciences—Child Development 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	4
CHIL 111	Curriculum: Music and Movement	3
CHIL 121	Curriculum: Art	3
CHIL 131	Curriculum: Language/Science	3
CHIL 151	Program Planning	3
CHIL 160	Observing and Understanding Children	2
MATH 119	Elementary Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics	3
		<b>Total Units = 18</b>

### Associate of Arts Degree: Liberal Arts and Sciences: Social and Behavioral Sciences— Economics

The Social and Behavioral Sciences—Economics degree is intended to help students prepare for possible majors within an 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	4

ACCT 116B	Managerial Accounting	4
BUSE 120	Principles of Money Management	3
BUSE 190	Academic and Career Opportunities in Business	1
BUSE 115	Statistics for Business	3
<b>or</b>		
MATH 119	Elementary Statistics	3
<b>or</b>		
PSYC 258	Behavioral Science Statistics	3
CBTE 140	Beginning Microsoft Excel	2
CBTE 151	Microsoft Access: Basic	1
CISC 181	Principles of Information Systems	4
COMS 160	Argumentation	3
LIBS 101	Information Literacy and Research Skills	1
MATH 121	Basic Techniques of Applied Calculus I	3
MATH 122	Basic Techniques of Calculus II	3
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4
MATH 254	Introduction to Linear Algebra	3
MATH 255	Differential Equations	3
<b>or</b>		
Any Foreign Language courses, including AMSL.		
		<b>Total Units = 18</b>

### Associate of Arts Degree: Liberal Arts and Sciences: Social and Behavioral Sciences—History

The Social and Behavioral Sciences—History 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.

<b>Required Courses:</b>		<b>Units</b>
<b>Core courses 6 units sequence from</b>		
HIST 100	World History I	3
<b>and</b>		
HIST 101	World History II	3
<b>or</b>		
HIST 105	Introduction to Western Civilization I	3
<b>and</b>		
HIST 106	Introduction to Western Civilization II	3
<b>or</b>		

HIST 109	History of the United States I <b>and</b>	3
HIST 110	History of the United States II <b>or</b>	3
HIST 115A	History of the Americas I <b>and</b>	3
HIST 115B	History of the Americas II <b>or</b>	3
HIST 120	Introduction to Asian Civilizations <b>and</b>	3
HIST 121	Asian Civilizations in Modern Times <b>or</b>	3
HIST 131	Latin America Before Independence <b>and</b>	3
HIST 132	Latin America Since Independence <b>or</b>	3
HIST 141	Women in United States History I <b>and</b>	3
HIST 142	Women in United States History II <b>or</b>	3
HIST 150	Native Americans in United States History I <b>and</b>	3
HIST 151	Native Americans in United States History II	3

**Select a minimum of 12 units from the following or any courses not selected in courses for the major:**

BLAS 140A	History of the U.S., Black Perspectives	3
BLAS 140B	History of the U.S., Black Perspectives	3
CHIC 141A	United States History from a Chicano Perspective	3
CHIC 141B	United States History from a Chicano Perspective	3
HIST 123	U.S. History from the Asian Pacific American Perspective	3
HIST 130	The Modern Middle East	3
HIST 154	Ancient Egypt	3
HIST 175	California History	3
HIST 205	Methodology and Practice in History	3

**Total Units = 18**

### Associate of Arts Degree: Liberal Arts and Sciences: Social and Behavioral Sciences—Human Development

The Social and Behavioral Sciences—Human Development 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	4
BIOL 210A	Introduction to the Biological Sciences I	4
BIOL 210B	Introduction to the Biological Sciences II	4
PSYC 260	Introduction to Physiological Psychology	3
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	3
BLAS 140B	History of the U.S., Black Perspectives	3
CHIC 110B	Introduction to Chicano Studies	3
CHIC 141B	United States History from a Chicano Perspective	3
HIST 123	U.S. History from the Asian Pacific American Perspective	3
MATH 121	Basic Techniques of Applied Calculus I	3
MATH 122	Basic Techniques of Calculus II	3
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4
PHIL 101	Symbolic Logic	3
SOCO 101	Principles of Sociology	3

**Total Units = 18**

### Associate of Arts Degree: Liberal Arts and Sciences: Social and Behavioral Sciences—Political Science

The Social and Behavioral Sciences—Political Science 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	Introduction to American Government	3
POLI 103	Comparative Politics	3
<b>Select a minimum of 12 units</b>		
POLI 101	Introduction to Political Science	3
POLI 140	Contemporary International Politics	3
MATH 119	Elementary Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics	3
<b>or</b>		
Any Foreign Language courses, including AMSL.		
		<b>Total Units = 18</b>

### Associate of Arts Degree: Liberal Arts and Sciences: Social and Behavioral Sciences—Psychology\*

The Social and Behavioral Sciences—Psychology 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	4
PSYC 211	Learning	3
PSYC 230	Psychology of Lifespan Development	3

PSYC 260	Introduction to Physiological Psychology	3
<b>or</b>		
Any Foreign Language courses, including AMSL.		
		<b>Total Units = 18</b>

\*Certain transfer institutions may require behavioral sciences prep for major. See Social and Behavioral Sciences emphasis.

### Associate of Arts Degree: Liberal Arts and Sciences: Social and Behavioral Sciences—Social Sciences

The Social and Behavioral Sciences—Social Sciences 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.

<b>Required Courses:</b>		<b>Units</b>
<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
<b>Select a minimum of 15 units</b>		
ANTH 102	Introduction to Biological Anthropology	3
ANTH 103	Introduction to Cultural Anthropology	3
CHIC 141A	United States History from a Chicano Perspective	3
CHIC 141B	United States History from a Chicano Perspective	3
ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3
GEOG 101	Physical Geography	3
GEOG 102	Cultural Geography	3
HIST 105	Introduction to Western Civilization I	3
HIST 106	Introduction to Western Civilization II	3
HIST 109	History of the United States I	3
HIST 110	History of the United States II	3
HIST 115A	History of the Americas I	3
HIST 115B	History of the Americas II	3

POLI 101	Introduction to Political Science	3
POLI 102	Introduction to American Government	3
POLI 103	Comparative Politics	3
SOCO 101	Principles of Sociology	3
SOCO 110	Contemporary Social Problems	3
<b>Total Units = 18</b>		

## Associate of Arts Degree: Liberal Arts and Sciences: Social and Behavioral Sciences— Sociology

The Social and Behavioral Sciences—Sociology 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.

<b>Courses required for the major:</b>		<b>Units</b>
SOCO 101	Principles of Sociology	3
MATH 119	Elementary Statistics	3
<b>or</b>		
PSYC 258	Behavioral Science Statistics	3
<b>Select a minimum of 12 units</b>		
CISC 181	Principles of Information Systems	4
CBTE 140	Beginning Microsoft Excel	2
CBTE 151	Microsoft Access: Basic	1
PSYC 255	Introduction to Psychological Research	3
SOCO 110	Contemporary Social Problems	3
SOCO 201	Advanced Principles of Sociology	3
WEBD 152	Beginning Web Development: HyperText Markup Language (HTML) and Cascading Style Sheets (CSS)	3
<b>or</b>		
Any Foreign Language Course, Including AMSL		
<b>Total Units = 18</b>		

## Associate of Arts Degree: Liberal Arts and Sciences: Social and Behavioral Sciences—Women's Studies

The Social and Behavioral Sciences - Women's Studies degree is an interdisciplinary exploration

of the past, present, and future through the perspectives and experiences of women in the United States and around the world. The courses in the degree explore how women's lives have been and continue to be impacted by cultural, political, and economic hegemonies, and examine the actions taken by women as they have sought to make an impact in their society. The Women's Studies curriculum examines the divergent experiences of women through the lens of race, ethnicity, class, nationality, religion, and sexual orientation through a historical and modern perspective.

### Emphasis:

The Social and Behavioral Sciences - Women's Studies degree provides an interdisciplinary curriculum of courses that emphasize preparation for the major or minor in Women's Studies or related disciplines, at the California State University (CSU) and the University of California (UC).

### Career Options:

The Social and Behavioral Sciences - Women's Studies degree is designed to introduce students to career possibilities in law, medicine, education, health science, public administration, journalism, and social services. As a multidisciplinary and interdisciplinary field, the courses in the Women's Studies program contribute to all fields in the humanities and social sciences. The skills in critical thinking and analysis prepare students for a variety of careers, including professional opportunities in political and social agencies working with women, and developing public policy on women's issues such as health care, employment, family violence, and education.

<b>Courses required for the major:</b>		<b>Units</b>
<b>Core courses (12 units)</b>		
PSYC 133	Psychology of Women	3
PHIL 125	Philosophy of Women	3
WMNS 101	Introduction to Gender and Women's Studies	3
HIST 141	Women in United States History I	3
<b>or</b>		
HIST 142	Women in United States History II	3
<b>Select a minimum of 6 units</b>		
ANTH 117	Anthropology of Gender and Sexuality	3
ARTF 108	Women in Art	3
ARTF 188	Women and Gender in Photography	3
BLAS 150	Black Women in Literature, Film and the Media	3
BLAS 175	Psycho-History of Racism and Sexism	3

CHIC 170	La Chicana	3
ENGL 237	Women in Literature	3
HIST 141 <sup>1</sup>	Women in United States History I	3
HIST 142 <sup>1</sup>	Women in United States History II	3
HUMA 210	Women in Religion and Myth	3
PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	3
POLI 123	Gender and Politics	3
SOCO 125	Sociology of the Family	3

**Total Units = 18**

<sup>1</sup>If not selected in the Courses for Major

### 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
<b>Associate of Arts Degree:</b> Liberal Studies: Elementary Education Preparation	40–43*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

**Note:** For Associate in Arts in Elementary Teacher Education for Transfer Degree please go to page 208

### 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 students 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 Program 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 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.

### Program Goals

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.

### Program 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 of Arts Degree: Liberal Studies Elementary Education Preparation

<b>Courses Required for the Major:</b>		<b>Units</b>
COMS 103	Oral Communication	3
EDUC 200	Teaching as a Profession	2
EDUC 203	Field Experience for Prospective Teachers	1
GEOG 104	World Regional Geography	3
GEOL 104	Earth Science	3
HIST 100	World History I	3
MATH 210B	Concepts of Elementary School Mathematics II	3
MATH 212	Children's Mathematical Thinking	1
MUSI 110	Music for Elementary School Teachers	3
EXSC 240	Physical Education in the Elementary Schools	3

### Select one course from the following:

COMS 160	Argumentation <b>or</b>	
ENGL 205	Critical Thinking and Intermediate Composition <b>or</b>	
PHIL 100	Logic and Critical Thinking <b>or</b>	
PHIL 103	Historical Introduction To Philosophy <b>or</b>	
PHIL 205	Critical Thinking and Writing in Philosophy	3

### Select one course from the following:

ENGL 220	Masterpieces of World Lit I <b>or</b>	
ENGL 221	Masterpieces of World Lit II <b>or</b>	
ENGL 208	Intro to World Literature	3

### Select one course from the following:

BLAS 140A	History of the U.S., Black Perspective <b>or</b>	
CHIC 141A	U.S. History, Chicano Perspective <b>or</b>	
HIST 109	History of the U.S. I	3

### Select one course from the following:

BLAS 140B	History of the U.S., Black Perspectives <b>or</b>	
CHIC 141B	U.S. History, Chicano Perspective <b>or</b>	
HIST 110	History of the U.S. II <b>or</b>	
POLI 102	Introduction to American Government	3

### Select one course from the following:

CHIL 101	Human Growth and Development <b>or</b>	
PSYC 101	General Psychology <b>and</b>	
PSYC 230	Psych lifespan Development	3-6

**Total Units = 40-43**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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; English 208, History 109, 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.**

## Marketing

<b>Award Type</b>	<b>Units</b>
<b>Certificate of Achievement:</b>	
Marketing	29
<b>Associate of Science Degree:</b>	
Marketing	42*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## 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. 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.

## Career Options

- Advertising Account Executive
- Advertising Sales Agent
- Advertising Production Manager

- Booking Agent
- Brand Manager
- Category Manager
- Competitive Intelligence Analyst
- Hotel/Restaurant Manager
- Insurance Agent/Broker
- Market Research Analyst
- Marketing Communications Analyst
- Marketing Specialist
- Merchandise Manager
- Promotions Director
- Public Relations Manager
- Retail Store Buyer
- Sales Manager
- Survey Researcher

### Program 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.
- **Global/Technological Awareness:** Students will understand and apply the use of modern technology to business situations.
- **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.

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

### Certificate of Achievement: Marketing

Courses Required for the Major:		Units
MARK 100	Principles of Marketing	3
ACCT 116A	Financial Accounting	4
BUSE 100 <sup>1</sup>	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

#### Select 6 units from the following:

BUSE 127	Social Media for Business	3
MARK 105	Professional Selling	3
MARK 110	Principles of Retailing	3
MARK 130	Advertising Principles	3

**Total Units = 29**

<sup>1</sup> BUSE 100 recommended as a first semester course.

**Recommended Electives:** Business 120, 190.

### Associate of Science Degree: Marketing

Courses Required for the Major:		Units
MARK 100	Principles of Marketing	3
ACCT 116A	Financial Accounting	4
ACCT 116B	Managerial Accounting	4
BUSE 100 <sup>1</sup>	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
ECON 120	Principles of Macroeconomics	3
COMS 135	Interpersonal Communication	3

#### Select 6 units from the following:

BUSE 127	Social Media for Business	3
MARK 105	Professional Selling	3
MARK 110	Principles of Retailing	3



<sup>1</sup> BUSE 100 recommended as a first semester course. For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Mathematics

Award Type	Units
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### Associate of Arts Degree:

Applied Mathematics	25–29*
Mathematics	22*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Associate in Science for Transfer Degree:

Mathematics	19–21
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### 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.

### Program 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 of Arts Degree: Mathematics

Courses Required for the Major:	Units
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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 units from:

MATH 119	Elementary Statistics	or
MATH 255	Differential Equations	or
PHIL 101	Symbolic Logic	3

Total Units = 22

**Recommended Electives:** Computer and Information Sciences 150; Mathematics 118, 119, 255, Psychology 101; Physics 125, 126.

## Associate of Arts Degree: Mathematics

### Applied 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

### Choose two courses from the following:

CISC 150	Introduction to Computer and Information Sciences	3
MATH 118	Math for the Liberal Arts Student	3
MATH 119	Elementary Statistics	3
MATH 255	Differential Equations	3
PSYC 101	General Psychology	3
PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 125	General Physics	5
PHYS 126	General Physics II	5

Total Units = 25–29

**Note:** Additional recommended electives: Any one course in Life Sciences, and courses supporting the major.

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate in Science in Mathematics for Transfer Degree:

The Associate in Science in Mathematics for Transfer Degree is intended for students who plan to complete a bachelor's degree in Mathematics or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

### Program Learning Outcomes:

Students who complete the Mathematics for Transfer 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree, and transfer requirements.

### Award Notes:

Students are required to complete a maximum of 60 CSU-transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

<b>Courses Required for the Major:</b>		<b>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

### Category A: Select one course from the following (3 units):

MATH 254	Introduction to Linear Algebra	3
MATH 255	Differential Equations	3

### Category B: Select one course from the following or any course not selected in Category A (3 units):

CISC 186	Visual Basic Programming	4
CISC 187	Data Structures in C++	4
CISC 190	Java Programming	4
CISC 192	C/C++ Programming	4
MATH 245	Discrete Mathematics	3
PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5
MATH 119	Elementary Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics <b>or</b>	
BIOL 200	Biological Statistics	3

**Total Units = 19–21**

**Electives as needed to meet maximum 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.**

# Medical Assisting

<b>Award Type</b>	<b>Units</b>
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**Certificate of Achievement:**

Medical Assisting	29–30
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**Associate of Science Degree:**

Medical Assisting	29–30*
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\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## Description

The Medical Assisting program offers a two semester Certificate of Achievement in Medical Assisting. All students who successfully complete the Medical Assisting program will be awarded a Certificate of Achievement. Graduates are eligible to sit for several national and state certification and registration exams. 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.

Eligibility for enrollment in this program is determined by a special admission procedure. Interested persons should review program information at <http://www.sdmesa.edu/academics/schools-departments/allied-health/>.

## 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 and urine drug screens, 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.

## Career Options

Clinical Medical Assisting, Administrative Medical Assisting.

## Program 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.

## Certificate of Achievement: Medical Assisting

<b>Courses Required for the Major:</b>		<b>Units</b>
MEDA 55	Fundamentals Human Anatomy and Physiology	3
<b>or</b>		
BIOL 160	Elements of Human Anatomy and Physiology	4
MEDA 56	Administrative Medical Assisting I	1.5
MEDA 64	Medical Ethics and Legal Issues for the Allied Health Professional	1
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 84	Phlebotomy for Medical Assisting	2
MEDA 86	Administrative Medical Assisting II	2
MEDA 88	Electrocardiogram Application	0.5
MEDA 92	Minor Surgery	0.5
MEDA 94	Medication Administration	0.5
MEDA 97	Directed Clinical Practice	4.5
MEDA 110	Medical Terminology	3

MEDA 115 Pathophysiology 3

**Total Units = 29–30****Associate of Science Degree:  
Medical Assisting**

<b>Courses Required for the Major:</b>		<b>Units</b>
MEDA 55	Fundamentals Human Anatomy and Physiology	3
<b>or</b>		
BIOL 160	Elements of Human Anatomy and Physiology	4
MEDA 56	Administrative Medical Assisting I	1.5
MEDA 64	Medical Ethics and Legal Issues for the Allied Health Professional	1
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 84	Phlebotomy for Medical Assisting	2
MEDA 86	Administrative Medical Assisting II	2
MEDA 88	Electrocardiogram Application	0.5
MEDA 92	Minor Surgery	0.5
MEDA 94	Medication Administration	0.5
MEDA 97	Directed Clinical Practice	4.5
MEDA 110	Medical Terminology	3
MEDA 115	Pathophysiology	3

**Total Units = 29–30**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

# Multimedia

<b>Award Type</b>	<b>Units</b>
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**Certificate of Achievement:**

3D Modeling and Animation	27
Interactive Media Production	27
Video Game Design and Development	30

**Associate of Science Degree:**

Video Game Design and Development	38*
Visual Communication	30*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

**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.

**Program Goals**

The Multimedia program provides educational instruction and career opportunities to students electing majors and /or courses in multimedia through a fully transferable Associate degree and for certificates in specialized multimedia fields.

**Career Options**

Multimedia Associate of Science: Animator, Interactive Writer, Web 2D/3D and Video Content Producer, Sales/Advertising Presentation Developer, Video Game Design and Development, Game Artist, Game Animator, Game Designer, Game Programmer, Quality Assurance, 3D Animator, 3D Character Artist, 3D Asset Design, Production Modeler, 3D Generalist, Modeling and Texture Artist, Character Rigging, Medical Modeler & Animator, Environment Artist, Gameplay Animator.

**Program 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 Achievement: 3D Modeling and Animation

<b>Course Required for the Major:</b>		<b>Units</b>
MULT 100	Introduction to Visual Communication	3
MULT 121	Intermediate Visual Communication	3
MULT 122	Advanced Visual Communication	3
MULT 137	3D Animation I: Introduction to 3D Modeling and Animation	3
MULT 139	3D Animation II: Character Design & Development	3
MULT 141	3D Animation III: Intermediate 3D Animation	3
MULT 143	3D Animation IV: Advanced 3D Animation	3
ARTF 155A	Freehand Drawing I	3
ARTF 155B	Freehand Drawing II	3
<b>Total Units = 27</b>		

### Certificate of Achievement: Interactive Media Production

<b>Courses Required for the Major:</b>		<b>Units</b>
MULT 100	Introduction to Visual Communication	3
MULT 121	Intermediate Visual Communication	3
MULT 123	Digital Video I	3
MULT 137	3D Animation I: Introduction to 3D Modeling and Animation	3
MULT 150	Beginning Unity Game Development	3
MULT 152	Intermediate Unity Game Development	3
WEBD 127	Creating User-Centered Content	3

WEBD 152	Beginning Web Development: HyperText Markup Language (HTML) and Cascading Style Sheets (CSS)	3
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#### Select three units (one course) from the following:

MULT 154	Advanced Unity Game Development	3
<b>or</b>		
MULT 122	Advanced Visual Communication	3
<b>or</b>		
MULT 139	3D Animation II: Character Design & Development	3
<b>or</b>		
MULT 141	3D Animation III: Intermediate 3D Animation	3
<b>or</b>		
MULT 143	3D Animation IV: Advanced 3D Animation	3
<b>or</b>		
ARTF 150A	Two-Dimensional Design	3
<b>or</b>		
ARTF 150B	Beginning Graphic Design	3
<b>or</b>		
ARTF 151	Three-Dimensional Design	3
<b>or</b>		
ARTF 152	Color Theory	3

**Total Units = 27**

### Certificate of Achievement: Video Game Design and Development

<b>Courses Required for the Major:</b>		<b>Units</b>
MULT 120	Introduction to Video Game Design	3
MULT 137	3D Animation I: Introduction to 3D Modeling and Animation	3
MULT 139	3D Animation II: Character Design & Development	3
MULT 148	Business of Games	3
MULT 150	Beginning Unity Game Development	3
MULT 152	Intermediate Unity Game Development	3
MULT 154	Advanced Unity Game Development	3
MULT 160	Beginning Unreal Engine	3
MULT 162	Intermediate Unreal Engine	3
MULT 164	Advanced Unreal Engine	3

**Total Units = 30**

### Associate of Science Degree: Video Game Design and Development

<b>Courses Required for the Major:</b>		<b>Units</b>
MULT 120	Introduction to Video Game Design	3

MULT 137	3D Animation I: Introduction to 3D Modeling and Animation	3
MULT 139	3D Animation II: Character Design & Development	3
MULT 148	Business of Games	3
MULT 150	Beginning Unity Game Development	3
MULT 152	Intermediate Unity Game Development	3
MULT 154	Advanced Unity Game Development	3
MULT 160	Beginning Unreal Engine	3
MULT 162	Intermediate Unreal Engine	3
MULT 164	Advanced Unreal Engine	3
CISC 220	Fundamentals of Computer Game Programming	4
CISC 221	Intermediate Computer Game Programming	4
<b>Total Units = 38</b>		

For graduation requirements see **Requirements for the Associate Degree** on 106.

**Electives as needed to help meet minimum of 60 units required for the degree.**

### Associate of Science Degree: Visual Communication

Courses Required for the Major:	Units	
MULT 100	Introduction to Visual Communication	3
MULT 121	Intermediate Visual Communication	3
MULT 122	Advanced Visual Communication	3
MULT 123	Digital Video I	3
MULT 124	Digital Video II	3

**Select 15 units (five courses) from the following:**

ARTF 150A	<sup>1</sup> Two-Dimensional Design	3
ARTF 152	<sup>1</sup> Color Theory	3
ARTF 155A	<sup>1</sup> Freehand Drawing I	3
ARTF 155B	<sup>1</sup> Freehand Drawing II	3
ARTF 231	<sup>1</sup> Introduction to Digital Art	3
ARTF 232	<sup>1</sup> Introduction to Digital Drawing and Painting	3
MULT 137	<sup>2</sup> 3D Animation I: Introduction to 3D Modeling and Animation	3
MULT 139	<sup>2</sup> 3D Animation II: Character Design & Development	3
MULT 141	<sup>2</sup> 3D Animation III: Intermediate 3D Animation	3
MULT 143	<sup>2</sup> 3D Animation IV: Advanced 3D Animation	3
MULT 120	<sup>3</sup> Introduction to Video Game Design	3
MULT 150	<sup>3</sup> Beginning Unity Game Development	3
MULT 152	<sup>3</sup> Intermediate Unity Game Development	3
MULT 154	<sup>3</sup> Advanced Unity Game Development	3

MULT 160	<sup>3</sup> Beginning Unreal Engine	3
MULT 162	<sup>3</sup> Intermediate Unreal Engine	3
MULT 164	<sup>3</sup> Advanced Unreal Engine	3
<sup>1</sup> 2D Design Emphasis		
<sup>2</sup> 3D Design Emphasis		
<sup>3</sup> Game Design Emphasis		

**Total Units = 30**

For graduation requirements see **Requirements for the Associate Degree** on 106.

**Electives as needed to help meet minimum of 60 units required for the degree.**

## Music

Award Type	Units
<b>Certificate of Achievement:</b>	
Music Composition	27
Music Technology	27
Music Theory	29
<b>Associate of Arts Degree:</b>	
Music Studies	27*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	

### Description

The academic program in Music is designed to provide students with the fundamental skills for most musical pursuits while remaining flexible so that students may determine which music courses are most suitable to meet their individual goals. It is recommended that students seek advice from a member of the Music faculty.

### Program Goals

This program will prepare students to transfer to four-year universities as a music major, to receive the Associates Degree in Music Studies, and to develop basic skills that relate to the music industry.

### Program Emphasis

An Associate of Arts in Music Studies degree emphasizes transfer preparation for music majors.

## Career Options

Most careers in music require education beyond the associate degree and some require a graduate degree.

## Program 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 Achievement: Music Composition

<b>Courses Required for the Major:</b>	<b>Units</b>
MUSI 116A Piano Class I	2
MUSI 116B Piano Class II	2
MUSI 123A Recital Hour I	0.5
MUSI 123B Recital Hour II	0.5
MUSI 158A Music Theory I	4
MUSI 158B Music Theory II	4
MUSI 205A Projects in Electronic Music I	3
MUSI 205B Projects in Electronic Music II	3
MUSI 206A Projects in Composition I	3
MUSI 206B Projects in Composition II	3
MUSI 268A Beginning Ear Training I	1
MUSI 268B Beginning Ear Training II	1

**Total Units = 27**

## Certificate of Achievement: Music Technology

<b>Courses Required for the Major:</b>	<b>Units</b>
MUSI 116A Piano Class I	2
MUSI 158A Music Theory I	4
MUSI 190 Electronic Music Studio	3
MUSI 201 Recording Arts	3

MUSI 202 Computer Music	3
MUSI 203 Large Console Audio Recording	3
MUSI 205A Projects in Electronic Music I	3
MUSI 205B Projects in Electronic Music II	3
MUSI 268A Beginning Ear Training I	1

### Select 2 units (2 courses) from the following:

MUSI 209A Electronic Music Studio Internship I	1
MUSI 209B Electronic Music Studio Internship II	1
MUSI 209C Electronic Music Studio Internship III	1
MUSI 209D Electronic Music Studio Internship IV	1

**Total Units = 27**

## Certificate of Achievement: Music Theory

<b>Courses Required for the Major:</b>	<b>Units</b>
MUSI 116A Piano Class I	2
MUSI 116B Piano Class II	2
MUSI 216A Piano Class III	2
MUSI 150A Basic Musicianship	3
MUSI 158A Music Theory I	4
MUSI 158B Music Theory II	4
MUSI 258A Music Theory III	4
MUSI 258B Music Theory IV	4
MUSI 268A Beginning Ear Training I	1
MUSI 268B Beginning Ear Training II	1
MUSI 269A Advanced Ear Training Laboratory III	1
MUSI 269B Advanced Ear Training Laboratory IV	1

**Total Units = 29**

## Associate of Arts Degree: Music

### Music Studies

**Note:** Students may design their own Associate of Arts degree by choosing the appropriate number of units from the following two lists. Music majors planning to transfer to a four-year college as juniors are strongly urged to take the Recommended Electives.

<b>Courses Required for the Major:</b>	<b>Units</b>
<b>Select 15 units from the following courses:</b>	
MUSI 100 Introduction to Music	3
MUSI 103 History of Rock Music	3
MUSI 109 World Music	3
MUSI 110 Music for Elementary School Teachers	3
MUSI 111 Jazz History	3
MUSI 117 Music in the United States	3
MUSI 118 Asian Music	3
MUSI 119 Music in the Americas, Africa & Europe	3
MUSI 123A Recital Hour I	0.5

MUSI 125	Music, the Arts, and Society	3
MUSI 150A	Basic Musicianship	3
MUSI 153	Beginning Jazz Improvisation	2
MUSI 158A	Music Theory I	4
MUSI 158B	Music Theory II	4
MUSI 258A	Music Theory III	4
MUSI 258B	Music Theory IV	4
MUSI 268A	Beginning Ear Training I	1
MUSI 268B	Beginning Ear Training II	1
MUSI 269A	Advanced Ear Training III	1
MUSI 269B	Advanced Ear Training IV	1

**Select 12 units from the following courses:**

MUSI 116A	Piano Class I	2
MUSI 116B	Piano Class II	2
MUSI 216A	Piano Class III	2
MUSI 120	Voice Class I	2
MUSI 121	Voice Class II	2
MUSI 135A	Guitar Class I	2
MUSI 135B	Guitar Class II	2
MUSI 190	Electronic Music Studio	3
MUSI 201	Recording Arts	3
MUSI 202	Computer Music	3
MUSI 203	Large Console Audio Recording	3
MUSI 205A	Projects in Electronic Music I	3
MUSI 205B	Projects in Electronic Music II	3
MUSI 206A	Projects in Composition I	3
MUSI 206B	Projects in Composition II	3
MUSI 211A	Vocal Ensemble I	2
MUSI 211B	Vocal Ensemble II	2
MUSI 211C	Vocal Ensemble III	2
MUSI 211D	Vocal Ensemble IV	2
MUSI 240	Voice Class III	2
MUSI 241	Voice Class IV	2
MUSI 251A	World Music Ensemble I	2
MUSI 251B	World Music Ensemble II	2
MUSI 251C	World Music Ensemble III	2
MUSI 251D	World Music Ensemble IV	2
MUSI 252A	Jazz Big Band I	1-3
MUSI 252B	Jazz Big Band II	1
MUSI 252C	Jazz Big Band III	1
MUSI 252D	Jazz Big Band IV	1
MUSI 253A	Jazz Ensemble I	1-3
MUSI 253B	Jazz Ensemble II	1-3
MUSI 253C	Jazz Ensemble III	1-3
MUSI 253D	Jazz Ensemble IV	1-3
MUSI 256A	Guitar Ensemble I	2
MUSI 256B	Guitar Ensemble II	2
MUSI 256C	Guitar Ensemble III	2
MUSI 256D	Guitar Ensemble IV	2
MUSI 174A	Individualized Study I	1
MUSI 174B	Individualized Study II	1
MUSI 174C	Individualized Study III	1
MUSI 174D	Individualized Study IV	1

MUSI 274A	Applied Music I	1
MUSI 274B	Applied Music II	1
MUSI 274C	Applied Music III	1
MUSI 274D	Applied Music IV	1

**Total Units = 27**

**Music Majors Planning to Transfer**

Music course requirements can vary from school to school; students are strongly urged to contact the four-year institution of their choice prior to transferring to verify required coursework. Because the curriculum at many four-year colleges expect that students' first two years of study include 1) two semesters of music history, 2) four semesters of music theory, 3) four semesters of ear-training, 4) four semesters of individual applied music study, 5) piano proficiency and 6) four semesters of participation in a performance group, it is recommended that students planning to transfer as a junior select from the following courses:

**Recommended Electives: Music Listening**

MUSI 100	Introduction to Music	3
MUSI 103	History of Rock Music	3
MUSI 109	World Music	3
MUSI 111	Jazz History	3
MUSI 117	Music in the United States	3
MUSI 118	Asian Music	3
MUSI 119	Music in the Americas, Africa & Europe	3
MUSI 125	Music, the Arts, and Society	3

**Recommended Electives: Piano**

MUSI 116A	Piano Class I	2
MUSI 116B	Piano Class II	2
MUSI 216A	Piano Class III	2

**Recommended Electives: Music Theory**

MUSI 150A	Basic Musicianship	3
MUSI 158A	Music Theory I	4
MUSI 158B	Music Theory II	4
MUSI 258A	Music Theory III	4
MUSI 258B	Music Theory IV	4

**Recommended Electives: Ear Training**

MUSI 268A	Beginning Ear Training I	1
MUSI 268B	Beginning Ear Training II	1
MUSI 269A	Advanced Ear Training III	1
MUSI 269B	Advanced Ear Training IV	1

**Recommended Electives: Applied Music**

MUSI 174A	Individualized Study I	1
MUSI 174B	Individualized Study II	1
MUSI 174C	Individualized Study III	1
MUSI 174D	Individualized Study IV	1
MUSI 274A	Applied Music I	1



MUSI 274B	Applied Music II	1
MUSI 274C	Applied Music III	1
MUSI 274D	Applied Music IV	1

#### Recommended Electives: Performance Groups

MUSI 211A	Vocal Ensemble I	2
MUSI 211B	Vocal Ensemble II	2
MUSI 211C	Vocal Ensemble III	2
MUSI 211D	Vocal Ensemble IV	2
MUSI 251A	World Music Ensemble I	2
MUSI 251B	World Music Ensemble II	2
MUSI 251C	World Music Ensemble III	2
MUSI 251D	World Music Ensemble IV	2
MUSI 252A	Jazz Big Band I	1-3
MUSI 252B	Jazz Big Band II	1
MUSI 252C	Jazz Big Band III	1
MUSI 252D	Jazz Big Band IV	1
MUSI 253A	Jazz Ensemble I	1-3
MUSI 253B	Jazz Ensemble II	1 - 3
MUSI 253C	Jazz Ensemble III	1 - 3
MUSI 253D	Jazz Ensemble IV	1 - 3
MUSI 256A	Guitar Ensemble I	2
MUSI 256B	Guitar Ensemble II	2
MUSI 256C	Guitar Ensemble III	2
MUSI 256D	Guitar Ensemble IV	2

For graduation requirements see **Requirements for the Associate Degree** on page 106.

### 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. 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.

## Neurodiagnostic Technology

Award Type	Units
<b>Certificate of Achievement:</b> Neurodiagnostic Technology	45
<b>Associate of Science Degree:</b> Neurodiagnostic Technology	45*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Description

Neurodiagnostic Technology is an allied health specialty used for diagnosing and treating patients with neurological disorders such as epilepsy, stroke, coma, multiple sclerosis, and many others. A competent Neurodiagnostic Technologist has knowledge of the nervous system and knows how to properly operate many types of diagnostic instrumentation. Neurodiagnostic technologists are employed in hospitals, outpatient clinics, physicians' offices, research centers and remote services.

The Neurodiagnostic Technology program provides theory, laboratory practice and clinical experience in electroencephalography (EEG) and in evoked potential (BAEP, VEP, SSEP) testing as well as an introduction to other neurological testing procedures. Testing procedures include polysomnography (PSG), nerve conduction studies (NCS), long-term monitoring (LTM) for epilepsy, intraoperative neurophysiological monitoring (IONM) and transcranial doppler (TCD) studies.

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 review program information at <http://www.sdmesa.edu/academics/schools-departments/allied-health/>.

## DIRECTED CLINICAL PRACTICE (DCP) 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 for removal from the program.

### Program Learning Outcomes:

At the completion of the program, the job-ready graduate will be able to work safely and effectively under the supervision of a licensed physician.

Objectives: The Neurodiagnostic Technology Program is designed to provide students with the knowledge and skills required for an entry-level position as a Neurodiagnostic Technologist in a variety of settings.

Students who complete the Neurodiagnostic Technology Program will be able to:

- Provide safe and accurate neurodiagnostic recordings.
- Apply critical thinking skills to be competent in various neurodiagnostic recording environments.
- Demonstrate knowledge of state and federal regulations.
- Establish and maintain ethical and professional behaviors consistent with standards and practices.
- Communicate effectively, both verbally and in writing, with the neurodiagnostic team, staff and patients.
- Participate in self-assessment and develop plans to improve knowledge, skills, and practices in the field of neurodiagnostic technology.
- Incorporate an understanding of the implications of individual and cultural differences, and adapt

behavior and delivery of patient care accordingly, with respect to patient's values, preferences and needs

### Career Options:

Neurodiagnostic technologists are employed in a variety of settings including hospitals, outpatient clinics, physicians' offices, university medical centers, research centers and remote services.

Upon completion of the program, graduates will be eligible to sit for the national credentialing board exam (ABRET - American Board of Registration of Electroencephalographic and Evoked Potential Technologists).

## Certificate of Achievement: Neurodiagnostic Technology

<b>Courses Required for the Major:</b>		<b>Units</b>
MEDA 78	Principles of Patient Care	2
HEIT 130	Basic Pharmacology	1
NDTE 101	Basic Electroencephalography	5
MEDA 115	Pathophysiology	3
NDTE 121	Neurodiagnostic Lab Practice	0.5
NDTE 131	Advanced Electroencephalography	4
NDTE 140	Directed Clinical Practice I	2
NDTE 133	Introduction to Neuroanatomy and Neurophysiology	3
NDTE 135	EEG Record Review	2.5
NDTE 150	Directed Clinical Practice II	2
NDTE 203	Neurologic Disorders	3
NDTE 206	Introduction to Transcranial Doppler	1
NDTE 209	Introduction to Nerve Conduction Velocity	1
NDTE 250	Directed Clinical Practice III	3
NDTE 201	Evoked Potentials	4
NDTE 260	Directed Clinical Practice IV	3
NDTE 223	Introduction to Intraoperative Monitoring	2
NDTE 226	Microcomputer Applications in Neurodiagnostics	2
NDTE 220	Polysomnography Basics	1
<b>Total Units = 45</b>		

## Associate of Science: Neurodiagnostic Technology

<b>Courses Required for the Major:</b>		<b>Units</b>
MEDA 78	Principles of Patient Care	2
HEIT 130	Basic Pharmacology	1
NDTE 101	Basic Electroencephalography	5
MEDA 115	Pathophysiology	3
NDTE 121	Neurodiagnostic Lab Practice	0.5

NDTE 131	Advanced Electroencephalography	4
NDTE 140	Directed Clinical Practice I	2
NDTE 133	Introduction to Neuroanatomy and Neurophysiology	3
NDTE 135	EEG Record Review	2.5
NDTE 150	Directed Clinical Practice II	2
NDTE 203	Neurologic Disorders	3
NDTE 206	Introduction to Transcranial Doppler	1
NDTE 209	Introduction to Nerve Conduction Velocity	1
NDTE 250	Directed Clinical Practice III	3
NDTE 201	Evoked Potentials	4
NDTE 260	Directed Clinical Practice IV	3
NDTE 223	Introduction to Intraoperative Monitoring	2
NDTE 226	Microcomputer Applications in Neurodiagnostics	2
NDTE 220	Polysomnography Basics	1

**Total Units = 45**

## Nutrition

### Award Type Units

#### Certificate of Achievement:

Nutrition	27–30
Nutrition and Fitness	18.5–23

#### Associate of Science Degree:

Nutrition	27–30*
Nutrition and Fitness	18.5–23*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

#### Associate in Science for Transfer Degree:

Nutrition and Dietetics	26–30*
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### 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.

### Program 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 Achievement: Nutrition

Courses Required for the Major:		Units
NUTR 150	Nutrition	3
NUTR 153	Cultural Foods	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

**Total Units = 27–30**

## Certificate of Achievement: Nutrition and Fitness

Courses Required for the Major:		Units
BIOL 160	Elements of Human Anatomy and Physiology	4
EXSC 125A	Aerobic Dance I <b>or</b>	
EXSC 125B	Aerobic Dance II	0.5–1
EXSC 126A	Cardio Conditioning I <b>or</b>	
EXSC 126B	Cardio Conditioning II <b>or</b>	
EXSC 126C	Cardio Conditioning III	0.5–1
EXSC 139A	Weight Training I <b>or</b>	
EXSC 139B	Weight Training II <b>or</b>	
EXSC 139C	Weight Training III	0.5–1
EXSC 242B	Care and Prevention of Injuries	3
NUTR 150	Nutrition	3
NUTR 160	Foods for Healthy Lifestyles	3
NUTR 170	Nutrition and Fitness	3
NUTR 270	Work Experience	1–4

**Total Units = 18.5–23**

## Associate of Science Degree: Nutrition

Courses Required for the Major:		Units
NUTR 150	Nutrition	3
NUTR 153	Cultural Foods	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

**Total Units = 27–30**

**Recommended Electives:** Child Development 141; Computer Business Technology 120; Psychology 101; Sociology 101; Fashion 190.

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate in Science in Nutrition and Dietetics for Transfer Degree:

### Award Description:

The Associate in Science in Nutrition and Dietetics for Transfer Degree is intended for students who plan to complete a bachelor's degree in Nutrition or a

related major in the California State University (CSU) system. The Associate in Science in Nutrition and Dietetics for Transfer Degree is accepted by some but not all CSU campuses. Students who complete the Associate in Science in Nutrition and Dietetics for Transfer 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.

**Note:** Students who plan to complete the Associate in Science in Nutrition and Dietetics for Transfer Degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

### Award Notes:

Students are required to complete 60 semester or 90 quarter CSU transferable units, with a minimum overall grade point average of 2.0, to include the following:

### Major:

- A minimum of 18 semester or 27 quarter units.
- A minimum grade of "C" or better for each course required in the major.

General Education: Complete one of the following general education options:

- The California State University General Education Breadth (CSUGE-B) pattern (page 138)
- The Intersegmental General Education Transfer Curriculum (IGETC) pattern (page 130)

### Note:

Electives, as needed, to meet the 60 semester or 90 quarter CSU transferable units required for the degree.

Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer

### Program Goals:

The purpose of the Associate in Science in Nutrition and Dietetics for Transfer Degree is to offer an organized course of study that will prepare students intending to major in Nutrition at the California State University.

### Program Emphasis:

The Associate in Science in Nutrition and Dietetics for Transfer Degree emphasizes preparation for the major in Nutrition at the California State University.

<b>Courses Required for the Major:</b>		<b>Units</b>
BIOL 205	General Microbiology	5
CHEM 200	General Chemistry I – Lecture	3
CHEM 200L	General Chemistry I – Laboratory	2
NUTR 150	Nutrition	3
PSYC 101	General Psychology	3

**Category A: select a minimum of two courses from the following: (7–9 units)**

BIOL 230	Human Anatomy	4
CHEM 201	General Chemistry II - Lecture	3
CHEM 201L	General Chemistry II - Laboratory	2
PSYC 258	Behavioral Science Statistics	3

**Category B: select a minimum of one course from the following or any course not selected in category A (3-5 units)**

NUTR 153	Cultural Foods	3
NUTR 155	Advanced Nutrition	3
NUTR 160	Foods for Healthy Lifestyles	3
ACCT 116A	Financial Accounting	4
ANTH 103	Introduction to Cultural Anthropology	3
BIOL 107	General Biology – Lecture and Laboratory	4
BIOL 200	Biological Statistics	3
BIOL 210A	Introduction to the Biological Sciences I	4
BIOL 210B	Introduction to the Biological Sciences II	4
BIOL 235	Human Physiology	4
BUSE 115	Statistics for Business	3
BUSE 140	Business Law and the Legal Environment	3
CHEM 100	Fundamentals of Chemistry	3
CHEM 100L	Fundamentals of Chemistry Laboratory	1
CHEM 130	Introduction to Organic and Biological Chemistry	3
CHEM 130L	Introduction to Organic and Biological Chemistry Laboratory	1
CHEM 152	Introduction to General Chemistry	3
CHEM 152L	Introduction to General Chemistry Laboratory	1
CHEM 160	Introductory Biochemistry	3
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
CHIL 101	Human Growth and Development	3
ECON 120	Principles of Macroeconomics	3

ECON 121	Principles of Microeconomics	3
EXSC 241B	Introduction to Kinesiology	3
JOUR 200	Introduction to Newswriting and Reporting	3
JOUR 202	Introduction to Mass Communication	3
MATH 116	College and Matrix Algebra	3
MATH 119	Elementary Statistics	3
MATH 121	Basic Techniques of Applied Calculus I	3
MATH 141	Precalculus	5
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
PHYS 125	General Physics	5
PHYS 126	General Physics II	5
PSYC 230	Psychology of Lifespan Development	3
SOCO 101	Principles of Sociology	3

**Total Units = 26–30**

## Associate of Science Degree: Nutrition and Fitness

<b>Courses Required for the Major:</b>		<b>Units</b>
BIOL 160	Elements of Human Anatomy and Physiology	4
EXSC 125A	Aerobic Dance I <b>or</b>	
EXSC 125B	Aerobic Dance II	0.5–1
EXSC 126A	Cardio Conditioning I <b>or</b>	
EXSC 126B	Cardio Conditioning II	0.5–1
EXSC 139A	Weight Training I <b>or</b>	
EXSC 139B	Weight Training II	0.5–1
EXSC 242B	Care and Prevention of Injuries	3
NUTR 150	Nutrition	3
NUTR 160	Foods for Healthy Lifestyles	3
NUTR 170	Nutrition and Fitness	3
NUTR 270	Work Experience	1–4

**Total Units = 18.5–23**

**Recommended Electives:** Health Education 131; Computer Business Technology 120; Fashion 190.

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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 a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.*

## Philosophy

Award Type	Units
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<b>Associate of Arts Degree:</b> Philosophy	21*
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\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

<b>Associate in Arts for Transfer</b> Philosophy	18–20
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### 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.

### Program Learning Outcomes

Students who complete the Philosophy Program will gain facility with:

- **Critical Thinking:** Think critically in reading about topics in Philosophy, thereby identifying problems, theses, arguments, evidence and conclusions.
- **Communication:** Write or speak about topics in Philosophy, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- **Personal Actions and Civic Responsibility:** Demonstrate an ability to understand one's role in society, take responsibility for one's own actions, and make ethical decisions in complex situations.
- **Global Awareness:** Articulate similarities and contrasts among cultures, times, and environments, demonstrating an understanding of cultural pluralism.
- **Self-Awareness and Interpersonal Skills:** Critically evaluate one's own beliefs/positions in light of the context of meaningful philosophical inquiry.

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

### Associate of Arts Degree: Philosophy

#### Courses Required for the Major:

PHIL 100	Logic and Critical Thinking	or	
PHIL 101	Symbolic Logic		3
PHIL 102A	Introduction to Philosophy: Reality and Knowledge		3
	<b>and</b>		
PHIL 102B	Introduction to Philosophy: Values		3
	<b>or</b>		
PHIL 104A	History Of Western Philosophy: Ancient to Medieval		3
	<b>and</b>		
PHIL 104B	History of Western Philosophy: Modern to Contemporary		3
HIST 100	World History I		3
	<b>and</b>		
HIST 101	World History II		3
	<b>or</b>		
HIST 105	Introduction to Western Civilization I		3

and		
HIST 106	Introduction to Western Civilization II	3
<b>Select six units from the following:</b>		
PHIL 103	Historical Introduction To Philosophy	3
PHIL 105	Contemporary Philosophy	3
PHIL 106	Asian Philosophy	3
PHIL 107	Reflections on Human Nature	3
PHIL 108	Perspectives on Human Nature and Society	3
PHIL 109	Issues in Social Philosophy	3
PHIL 110	Philosophy of Religion	3
PHIL 111	Philosophy In Literature	3
PHIL 112	Philosophy of Science	3
PHIL 125	Philosophy of Women	3
PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	3
PHIL 130	Philosophy of Art and Music	3
PHIL 131	Environmental Ethics	3
PHIL 205	Critical Thinking and Writing in Philosophy	3
<b>Total Units = 21</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Associate in Arts in Philosophy for Transfer Degree:

The Associates in Arts for Transfer in Philosophy is intended for students who plan to complete a bachelor's degree in Philosophy or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

### Award Notes:

Students are required to complete 60 semester or 90 quarter CSU transferable units, with a minimum overall grade point average of 2.0, to include the following:

### Major:

- A minimum of 18 semester or 27 quarter units.
- A minimum grade of "C" or better for each course required in the major.

**General Education:** Complete one of the following general education options:

- The California State University General Education Breadth (CSUGE-B) pattern.
- The Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Electives, as needed, to meet the 60 semester or 90 quarter CSU transferable units required for the degree.

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

### Program Goals:

The purpose of this Associate in Arts degree program in Philosophy is to offer an organized course of study that will prepare students intending to major in Philosophy at the California State University.

### Program Emphasis:

The Philosophy Associate in Arts for Transfer program emphasizes preparation for the major in Philosophy at the California State University.

<b>Courses Required for the Major:</b>		<b>Units</b>
PHIL 100	Logic and Critical Thinking <b>or</b>	
PHIL 101	Symbolic Logic	3
PHIL 102A	Introduction To Philosophy: Reality and Knowledge <b>or</b>	
PHIL 102B	Introduction To Philosophy: Values	3

### Category A: Select from the following courses or any course not selected in the core (3 units)

PHIL 103	Historical Introduction To Philosophy	3
PHIL 104A	History Of Western Philosophy: Ancient to Medieval	3
PHIL 104B	History of Western Philosophy: Modern to Contemporary	3
PHIL 106	Asian Philosophy	3
PHIL 107	Reflections on Human Nature	3
PHIL 108	Perspectives on Human Nature and Society	3
PHIL 109	Issues in Social Philosophy	3
PHIL 110	Philosophy of Religion	3
PHIL 111	Philosophy In Literature	3
PHIL 112	Philosophy of Science	3
ENGL 105	Composition and Literature	3

ENGL 205	Critical Thinking and Intermediate Composition	3
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**Category B: Select from the following courses or any course(s) not selected in the core or Category A (9–11 units)**

PHIL 125	Philosophy of Women	3
PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	3
PHIL 130	Philosophy of Art and Music	3
AMSL 115	American Sign Language Level I	4
AMSL 116	American Sign Language Level II	4
AMSL 215	American Sign Language Level III	4
AMSL 216	American Sign Language Level IV	4
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
CHIN 202	Fourth Course in Mandarin Chinese	5
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
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
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
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
LATI 201	Third Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
SPAN 202	Fourth Course in Spanish	5
SPAN 215	Spanish for Spanish Speakers I	5
SPAN 216	Spanish for Spanish Speakers II	5
TAGA 101	First Course in Tagalog	5
TAGA 102	Second Course in Tagalog	5
TAGA 201	Third Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5

**Total Units = 18–20**

**Electives as needed to meet maximum 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 a third semester competency in a foreign language. Consult the current catalog of the transfer institution and consult with a counselor.**

## Phlebotomy

Award Type	Units
<b>Certificate of Performance:</b> Phlebotomy Training Program	4

### Certificate of Performance: Phlebotomy Training Program\*

The Phlebotomy Training Program offers a one semester Certificate of Performance in Phlebotomy. Students who successfully complete the Phlebotomy Training Program and receive a Certificate of Performance are eligible to apply for State of California certification as a Certified Phlebotomy Technician 1 (CPT 1) and sit for several state and national examinations.

Eligibility for enrollment in this program is determined by a special admission procedure. Interested persons should review program information at <http://www.sdmesa.edu/academics/schools-departments/allied-health/>.

### Directed Clinical Practice Requirement:

Students accepted into the Phlebotomy Training Program are required to successfully complete Directed Clinical Practice; a clinically-based course held in health care facilities. The 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 the Directed Clinical Practice and thus, prevent successful completion of 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 standard of safety, health and ethical behavior. This may be cause for removal from the program.

#### Award Notes:

#### Limitation on Enrollment:

Special Admission – must be admitted to program. 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, and be eligible to apply for State of California certification as a Certified Phlebotomy Technician 1 (CPT 1) and sit for several state and national examinations.

This program includes basic and advanced didactic and practical phlebotomy training, including a minimum of 50 to 100 patient venipunctures, 25 capillary punctures and two arterial puncture observations.

#### Program Goals:

The goal of the Phlebotomy Training Program is to prepare students to enter the workforce as an entry level Certified Phlebotomy Technician.

#### Career Options:

Phlebotomy Technician, Certified Phlebotomy Technician (CPT1)

Courses:		Units
PHLB 70	Phlebotomy	2.5
PHLB 80	Phlebotomy Directed Clinical Practice	1.5
		<b>Total Units = 4</b>

#### Recommended Electives: ALLH 48

\*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.

**Note:** This program is not eligible for federal financial aid in accordance with Federal regulations.

# Physical Sciences

Award Type	Units
<b>Certificate of Achievement:</b>	
Physical Sciences	35
<b>Associate of Science Degree:</b>	
Physical Sciences	35*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## Physical Sciences

### 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 Goals

This program serves the students to transfer to four-year colleges and to acquire the necessary skills for employment as technicians.

### 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.

### Program Learning Outcomes

Students who complete the Physical Sciences Program will display the ability to:

- Use proportional reasoning and graphical analysis to establish and analyze relationships between measured quantities.
- Apply conceptual and mathematical tools to correctly predict the future state of physical systems.

- clearly communicate scientific principles, experimental results, and their implications.

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

## Certificate of Achievement: Physical Sciences

<b>Courses Required for the Major:</b>		<b>Units</b>
GEOL 100	Physical Geology	3
GEOL 101	Physical Geology Laboratory	1

### At least 4 units from the following:

ASTR 101	Descriptive Astronomy	3
ASTR 102	Exploring The Solar System And Life Beyond The Earth	3
ASTR 109	Practice in Observing	1
ASTR 111	Astronomy Laboratory	1
GEOL 104	Earth Science	3
GEOL 120	Earth Science Laboratory	1
GEOL 130	Field Geology of San Diego County	4
PHYN 114	Weather and Climate	3

### At least 8 units from the following:

CHEM 100	Fundamentals of Chemistry	3
CHEM 100L	Fundamentals of Chemistry Laboratory	1
CHEM 130	Introduction to Organic and Biological Chemistry	3
CHEM 130L	Introduction to Organic and Biological Chemistry Laboratory	1
CHEM 152	Introduction to General Chemistry	3
CHEM 152L	Introduction to General Chemistry Laboratory	1
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

### At least 3 units from the following:

GEOG 101	Physical Geography	3
GEOG 101L	Physical Geography Laboratory	1

### At least 8 units from the following:

PHYS 100	Introductory Physics	4
PHYS 125	General Physics	5
PHYS 126	General Physics II	5
PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5

### At least 8 units selected from the following:

MATH 96	Intermediate Algebra and Geometry	5
MATH 104	Trigonometry	3

MATH 118	Math for the Liberal Arts Student	3
MATH 119	Elementary Statistics	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

**Total Units = 35**

## Associate of Science Degree: Physical Sciences

<b>Courses Required for the Major:</b>		<b>Units</b>
GEOL 100	Physical Geology	3
GEOL 101	Physical Geology Laboratory	1

### At least 4 units from the following:

ASTR 101	Descriptive Astronomy	3
ASTR 102	Exploring The Solar System And Life Beyond The Earth	3
ASTR 109	Practice in Observing	1
ASTR 111	Astronomy Laboratory	1
GEOL 104	Earth Science	3
GEOL 120	Earth Science Laboratory	1
GEOL 130	Field Geology of San Diego County	4
PHYN 114	Weather and Climate	3

### At least 8 units from the following:

CHEM 100	Fundamentals of Chemistry	3
CHEM 100L	Fundamentals of Chemistry Laboratory	1
CHEM 130	Introduction to Organic and Biological Chemistry	3
CHEM 130L	Introduction to Organic and Biological Chemistry Laboratory	1
CHEM 152	Introduction to General Chemistry	3
CHEM 152L	Introduction to General Chemistry Laboratory	1
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

### At least 3 units from the following:

GEOG 101	Physical Geography	3
GEOG 101L	Physical Geography Laboratory	1

### At least 8 units from the following:

PHYS 100	Introductory Physics	4
PHYS 125	General Physics	5
PHYS 126	General Physics II	5
PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5

### At least 8 units from the following:

MATH 96	Intermediate Algebra and Geometry	5
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MATH 104	Trigonometry	3
MATH 118	Math for the Liberal Arts Student	3
MATH 119	Elementary Statistics	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

**Total Units = 35**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives (Mesa College) 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.**

## Physical Therapist Assistant

Award Type	Units
<b>Associate of Science Degree:</b> Physical Therapist Assistant	46*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Description

The Physical Therapist Assistant Program prepares the student for employment as a physical therapist assistant. The physical therapist assistant, working under the supervision and direction of a licensed physical therapist, assists in the provision of physical therapy services including manual therapy, therapeutic exercise, therapeutic modalities, and functional training across the lifespan.

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 review program information at <http://www.sdmesa.edu/academics/schools-departments/allied-health/>.

### Program 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 licensed physical therapist.

### Program Emphasis

Exposes students to all aspects of the physical therapy profession. Students must show safe, competent administration of physical therapy services.

### Career Options

Employment as physical therapist assistant after passing the National Physical Therapy Exam for the Physical Therapist Assistant and California Law Examination.

### Mission Statement

The primary mission of the Physical Therapist Assistant Program at San Diego Mesa College is to provide excellence in the education and development of competent physical therapist assistants that provide high quality patient care through evidence based practice to diverse populations and become leaders within the health care community and profession.

### Program Learning Outcomes

- Select and perform safe and effective interventions within the:

- Physical Therapist Assistant (PTA) scope of practice.
- Physical therapist's plan of care.
- Demonstrate knowledge of California physical therapy laws and regulations.
- Demonstrate ethical and professional behaviors consistent with professional standards and practice.
- Communicate effectively, both verbally and in writing, as appropriate for a PTA.
- Participate in self-assessment and develop plans to improve knowledge, skills, and behavior as appropriate for a PTA.
- Incorporate an understanding of the implications of individual and cultural differences, and adapt behavior and delivery of care accordingly in all aspects of physical therapy services with respect to patients' values, preferences, and needs.

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 of Science Degree: Physical Therapist Assistant

<b>Courses Required for the Major:</b>	<b>Units</b>
PHYR 210 Introduction to Physical Therapy	2
PHYR 215 Documentation Skills	1
PHYR 220 Growth, Development, and Aging	3

PHYR 225 Acute Care Techniques	2
PHYR 225L Acute Care Techniques Lab	2
PHYR 230 Introduction To Human Movement	3
PHYR 240 Introduction to Pathology	3
PHYR 250 Introduction to Therapeutic Exercise	2
PHYR 260 Topics in Neurology and Rehabilitation	2
PHYR 260L Topics in Neurology and Rehabilitation Lab	2
PHYR 263 Patient Management	1
PHYR 264 Therapeutic Modalities	1.5
PHYR 264L Therapeutic Modalities Lab	1.5
PHYR 275 Orthopedic Exercise and Rehabilitation	3
PHYR 275L Orthopedic Exercise and Rehabilitation–Lab	2
PHYR 280 Organization of Physical Therapy	2
PHYR 291 Directed Clinical Practice I	3
PHYR 295 Directed Clinical Practice II	5
PHYR 298 Directed Clinical Practice III	5

**Total Units = 46**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Physics

<b>Award Type</b>	<b>Units</b>
<b>Certificate of Achievement:</b>	
Physics	35
<b>Associate of Science Degree:</b>	
Physics	35*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Associate in Science for Transfer Degree:</b>	
Physics	28

### Description

Upon completion of the required pattern of physics courses and other degree graduation requirements an Associate of 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.

## Program Learning Outcomes

Students who complete the Physics Program will display the ability to:

- Use proportional reasoning and graphical analysis to establish and analyze relationships between measured quantities.
- Clearly communicate scientific principles, experimental results, and their implications.
- Apply conceptual and mathematical tools to correctly predict the future state of physical systems.

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

## Certificate of Achievement: Physics

<b>Courses Required for the Major:</b>		<b>Units</b>
PHYS 195	Mechanics	5
PHYS 196	Electricity & Magnetism	5
PHYS 197	Waves, Optics, & Modern Physics	5

<b>Plus 20 units selected from the following:</b>		
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 of Science Degree: Physics

<b>Courses Required for the Major:</b>		<b>Units</b>
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**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

### 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.

## Associate in Science in Physics for Transfer Degree:

The Associate in Science in Physics for Transfer Degree is intended for students who plan to complete a bachelor's degree in Physics or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

### Program Learning Outcomes:

Students who complete the Physics for Transfer 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.

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

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

#### Award Notes:

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of “C” or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

Courses Required for the Major:		Units
PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	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
<b>Total Units = 28</b>		

**Recommended Electives:** Chemistry 200, 200L, 201, 201L.

**Electives as needed to meet maximum 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.**

## Political Science

Award Type	Units
<b>Associate of Arts Degree:</b>	
Political Science	18*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Associate in Arts for Transfer Degree:</b>	
Political Science	18

### 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.

### Program Learning Outcomes

Students who complete the Political Science Program will be able to:

- Think critically in reading, writing, and/or speaking about topics in Political Science, thereby identifying problems, theses, arguments, evidence and conclusions.
- Write or speak about topics in Political Science, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- Demonstrate an ability to understand one's role in society, take responsibility for one's own actions, and make ethical decisions in complex situations.
- Articulate similarities and contrasts among cultures, times, and environments, demonstrating an understanding of cultural pluralism.

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

### Associate of Arts Degree: Political Science

Courses Required for the Major:		Units
POLI 101	Introduction to Political Science	3
POLI 102	Introduction to American Government	3
POLI 103	Comparative Politics	3
HIST 100	World History I	3
<b>and</b>		
HIST 101	World History II	3
<b>or</b>		
HIST 105	Introduction to Western Civilization I	3
<b>and</b>		
HIST 106	Introduction to Western Civilization II	3
MATH 119	Elementary Statistics	3
<b>Total Units =</b>		<b>18</b>

For graduation requirements see **Requirements for the Associate Degree** on page 106.

### 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; Psychology 155; Sociology 101, 110.

### Associate in Arts in Political Science for Transfer Degree:

The Associate in Arts in Political Science for Transfer Degree is intended for students who plan to complete a bachelor's degree in Political Science or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

#### Program Learning Outcomes:

Students who complete the Political Science Program will be able to:

- Think critically in reading, writing, and/or speaking about topics in Political Science, thereby identifying problems, theses, arguments, evidence and conclusions.
- Write or speak about topics in Political Science, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- Demonstrate an ability to understand one's role in society, take responsibility for one's own actions, and make ethical decisions in complex situations.
- Articulate similarities and contrasts among cultures, times, and environments, demonstrating an understanding of cultural pluralism.

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

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

**Award Notes:**

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

**Courses Required for the Major: Units**

POLI 102 Introduction to American Government 3

**Category A: Select three of the following courses (9 units):**

POLI 101 Introduction to Political Science 3

POLI 103 Comparative Politics 3

MATH 119 Elementary Statistics **or**

PSYC 258 Behavioral Science Statistics 3

**Category B: Select two courses from the following courses or any course not selected in Category A (6 units):**

ACCT 116A Financial Accounting 4

ANTH 103 Introduction to Cultural Anthropology 3

BLAS 100 Introduction to Black Studies 3

BLAS 116 Contemporary Social Problems from a Black Perspective 3

BUSE 140 Business Law and the Legal Environment 3

CHIC 110A Introduction to Chicana and Chicano Studies 3

CHIC 110B Introduction to Chicano Studies 3

ECON 120 Principles of Macroeconomics 3

ECON 121 Principles of Microeconomics 3

ENGL 105 Composition and Literature 3

ENGL 205 Critical Thinking and Intermediate Composition 3

GEOG 102 Cultural Geography 3

HIST 100 World History I 3

HIST 101 World History II 3

HIST 105 Introduction to Western Civilization I 3

HIST 106 Introduction to Western Civilization II 3

HIST 109 History of the United States I 3

HIST 110 History of the United States II 3

HIST 141 Women in United States History I 3

HIST 142 Women in United States History II 3

HIST 150 Native Americans in United States History I 3

HIST 151 Native Americans in United States History II 3

HIST 175 California History 3

POLI 140 Contemporary International Politics 3

SOCO 101 Principles of Sociology 3

SOCO 110 Contemporary Social Problems 3

SOCO 223 Globalization and Social Change 3

**Total Units = 18**

**Electives as needed to meet maximum 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 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****Associate of Arts Degree:**

Psychology 18\*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

**Associate in Arts for Transfer Degree:**

Psychology 18–23

**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 provides the student with a greater understanding of behavior.



### Program Learning Outcomes

Students who complete the Psychology Program will be able to:

- **Critical Thinking:** Demonstrate critical thinking in reading, writing, and/or speaking about concepts and issues related to human behavior and mental processes using the scientific approach, thereby identifying problems, theses, arguments, evidence and conclusions.
- **Communication:** Demonstrate effective writing and/or speaking about human behavior and mental processes (for example, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions).
- **Consciousness, Professional & Ethical Behavior:** Demonstrate recognition of the significance of ethics and diversity in Psychological Science.
- **Information Literacy:** Compare and contrast different research methods used in Psychological Science; Demonstrate understanding of the applications and implications of technology and its appropriate uses.

### Career Options

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.

## Associate of Arts Degree: Psychology

Courses Required for the Major:	Units
PSYC 101 General Psychology	3

### Select 15 units from the following:

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 133 Psychology of Women	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 201 Academic and Career Opportunities in Psychology	1
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 276 Field Work in Psychological Services	3
<b>Total Units = 18</b>	

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

### Recommended Psychology Electives:

Communication Studies 103 or 135; Philosophy 100, 102A, 102B; Computer and Information Science 150.

## Associate in Arts in Psychology for Transfer Degree:

The Associate in Arts in Psychology for Transfer Degree is intended for students who plan to complete a bachelor's degree in Psychology or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. 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.

### Program Learning Outcomes

Students who complete the Associate in Arts for Transfer in Psychology 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 methods of communication.

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

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

**Award Notes:**

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of “C” or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

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

Completion of 60 CSU-transferable semester units. No more than 60 units are required.

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.

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.

Certified completion of the California State University General Education-Breadth pattern (CSU GE; see page 138 for more information); OR the Intersegmental General Education Transfer Curriculum pattern (IGETC; see page 130 for more information).

**Goals**

The purpose of this Associate in Arts in Psychology for Transfer Degree program is to offer an organized

course of study that will prepare students intending to major in Psychology at a California State University.

**Emphasis**

The Associate in Arts in Psychology for Transfer Degree program emphasizes preparation for the major in Psychology at a California State University.

**Courses Required for the Major:**

	<b>Units</b>
PSYC 101 <sup>1</sup> General Psychology	3
PSYC 255 Introduction to Psychological Research	3
BIOL 200 <sup>1</sup> Biological Statistics <b>or</b>	
MATH 119 <sup>1</sup> Elementary Statistics <b>or</b>	
PSYC 258 Behavioral Science Statistics	3

<sup>1</sup>Course also fulfills general education requirements for the CSUGE or IGETC pattern.

**Select one of the following courses:**

BIOL 107 <sup>1</sup> General Biology-Lecture and Laboratory	4
PSYC 260 <sup>1</sup> Introduction to Physiological Psychology	3

<sup>1</sup>Course also fulfills general education requirements for the CSUGE or IGETC pattern.

**Select one of the following courses (not selected above):** *(It is recommended that students select courses that meet lower division major preparation requirements for their university.)*

BIOL 107 <sup>1</sup> General Biology – Lecture and Laboratory	4
BIOL 210A <sup>1</sup> Introduction to the Biological Sciences I	4
BIOL 230 <sup>1</sup> Human Anatomy	4
CHEM 100 <sup>1</sup> Fundamentals of Chemistry	3
<b>and</b>	
CHEM 100L <sup>1</sup> Fundamentals of Chemistry Laboratory	1
CHEM 130 <sup>1</sup> Introduction to Organic and Biological Chemistry	3
<b>and</b>	
CHEM 130L <sup>1</sup> Introduction to Organic and Biological Chemistry Laboratory	1
CHEM 200 <sup>1</sup> General Chemistry I – Lecture	3
<b>and</b>	
CHEM 200L <sup>1</sup> General Chemistry I – Laboratory	2
CHEM 201 <sup>1</sup> General Chemistry II – Lecture	3
<b>and</b>	
CHEM 201L <sup>1</sup> General Chemistry II – Laboratory	2
CHIL 101 <sup>1</sup> Human Growth and Development	3
CISC 192 C/C++ Programming	4
ENGL 101 <sup>1</sup> Reading and Composition	3

ENGL 105 <sup>1</sup>	Composition and Literature	3
ENGL 205 <sup>1</sup>	Critical Thinking and Intermediate Composition	3
MATH 104 <sup>1</sup>	Trigonometry	3
MATH 150 <sup>1</sup>	Calculus with Analytic Geometry I	5
MATH 151 <sup>1</sup>	Calculus with Analytic Geometry II	4
PHIL 100 <sup>1</sup>	Logic and Critical Thinking	3
PHIL 205 <sup>1</sup>	Critical Thinking and Writing in Philosophy	3
PHYS 125 <sup>1</sup>	General Physics	5
PHYS 126 <sup>1</sup>	General Physics II	5
PHYS 195 <sup>1</sup>	Mechanics	5
PHYS 196 <sup>1</sup>	Electricity and Magnetism	5
PHYS 197 <sup>1</sup>	Waves, Optics and Modern Physics	5
PSYC 121 <sup>1</sup>	Introduction to Child Psychology	3
PSYC 125	Introduction to Behavior Modification	3
PSYC 155 <sup>1</sup>	Introduction to Personality	3
PSYC 166 <sup>1</sup>	Introduction to Social Psychology	3
PSYC 211 <sup>1</sup>	Learning	3
PSYC 230 <sup>1</sup>	Psychology of Lifespan Development	3
PSYC 260 <sup>1</sup>	Introduction to Physiological Psychology	3
SOCO 101 <sup>1</sup>	Principles of Sociology	3
SOCO 110 <sup>1</sup>	Contemporary Social Problems	3

<sup>1</sup>Course also fulfills general education requirements for the CSUGE or IGETC pattern.

**Select one course from the following (not selected above):** (*It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.*)

BIOL 107 <sup>1</sup>	General Biology – Lecture and Laboratory	4
BIOL 210A <sup>1</sup>	Introduction to the Biological Sciences I	4
BIOL 230 <sup>1</sup>	Human Anatomy	4
CHEM 100 <sup>1</sup>	Fundamentals of Chemistry	3
<b>and</b>		
CHEM 100L	Fundamentals of Chemistry Laboratory	1
CHEM 130 <sup>1</sup>	Introduction to Organic and Biological Chemistry	3
<b>and</b>		
CHEM 130L <sup>1</sup>	Introduction to Organic and Biological Chemistry Laboratory	1
CHEM 200 <sup>1</sup>	General Chemistry I – Lecture	3
<b>and</b>		
CHEM 200L <sup>1</sup>	General Chemistry I – Laboratory	2
CHEM 201 <sup>1</sup>	General Chemistry II – Lecture	3
<b>and</b>		
CHEM 201L <sup>1</sup>	General Chemistry II – Laboratory	2
CHIL 101 <sup>1</sup>	Human Growth and Development	3
CISC 192	C/C++ Programming	4

ENGL 101 <sup>1</sup>	Reading and Composition	3
ENGL 105 <sup>1</sup>	Composition and Literature	3
ENGL 205 <sup>1</sup>	Critical Thinking and Intermediate Composition	3
MATH 104 <sup>1</sup>	Trigonometry	3
MATH 150 <sup>1</sup>	Calculus with Analytic Geometry I	5
MATH 151 <sup>1</sup>	Calculus with Analytic Geometry II	4
PHIL 100 <sup>1</sup>	Logic and Critical Thinking	3
PHIL 205 <sup>1</sup>	Critical Thinking and Writing in Philosophy	3
PHYS 125 <sup>1</sup>	General Physics	5
PHYS 126 <sup>1</sup>	General Physics II	5
PHYS 195 <sup>1</sup>	Mechanics	5
PHYS 196 <sup>1</sup>	Electricity and Magnetism	5
PHYS 197 <sup>1</sup>	Waves, Optics and Modern Physics	5
PSYC 111 <sup>1</sup>	Psychological/Social Aspects of Aging, Death and Dying	3
PSYC 112 <sup>1</sup>	Interpersonal Relations	3
PSYC 121 <sup>1</sup>	Introduction to Child Psychology	3
PSYC 125	Introduction to Behavior Modification	3
PSYC 133 <sup>1</sup>	Psychology of Women	3
PSYC 135 <sup>1</sup>	Marriage and Family Relations	3
PSYC 137 <sup>1</sup>	Human Sexual Behavior	3
PSYC 155 <sup>1</sup>	Introduction to Personality	3
PSYC 161	Introduction to Counseling	3
PSYC 166 <sup>1</sup>	Introduction to Social Psychology	3
PSYC 211 <sup>1</sup>	Learning	3
PSYC 230 <sup>1</sup>	Psychology of Lifespan Development	3
PSYC 245	Abnormal Psychology	3
PSYC 260 <sup>1</sup>	Introduction to Physiological Psychology	3
SOCO 101 <sup>1</sup>	Principles of Sociology	3
SOCO 110 <sup>1</sup>	Contemporary Social Problems	3

<sup>1</sup>Course also fulfills general education requirements for the CSUGE or IGETC pattern.

**Total Units = 18–23**

**Electives, as needed, to meet maximum of 60 CSU-transferable 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.*

# Radiologic Technology

Award Type	Units
<b>Certificate of Achievement:</b> Radiologic Technology	75
<b>Associate of Science Degree:</b> Radiologic Technology	75*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## Description

The program prepares the student for certification as a full diagnostic radiologic technologist. Training includes radiographic equipment operation, exposure and image processing principles, radiographic procedures, radiation protection, patient care and directed clinical practice. The program runs for 24 months, including two summer sessions. Upon completion of the program, the student will be awarded a certificate of achievement and Associate of Science degree. Graduates of program are eligible to apply for certification by the American Registry of Radiologic Technologists and the state of California (CRT and Fluoroscopy). 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 review program information at <http://www.sdmesa.edu/academics/schools-departments/allied-health/>.

For national certification eligibility, students must have earned an associate or higher degree from an institution that is regionally accredited and accredited by a mechanism acceptable to the American Registry of Radiologic Technologists (ARRT: [www.arrt.org](http://www.arrt.org)). The degree need not be in Radiologic

Technology. Therefore, students must either already have an associate degree (or higher) that meets the ARRT requirement or have completed all of the general education requirements for an associate degree from Mesa College upon application to the program.

## Program Learning Outcomes

Students who complete the Radiologic Technology Program will be able to:

- Master entry-level skills in positioning, employ safe radiation practices on patients, self and others, and select appropriate technical factors for radiographic exams.
- Communicate using professional language, accurately obtain patient histories and listen without judgment to patients, visitors, physicians, and staff.
- Adapt standard procedures for non-routine exams, modify patient care skills for the injured or critically ill patients, and adjust technical factors for pathology and non-routine exams.
- Maintain calm composure at all times, maintain compliance with all mandatory health and safety policies, and treat patients, visitors, physicians and staff with kindness and respect.

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 require background checks which may include 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

1. Students will be clinically competent.
2. Students will demonstrate communication skills.
3. Students will develop critical thinking skills
4. Students will model professionalism.

## 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

<b>Courses required for the major:</b>		<b>Units</b>
RADT 50	Concepts in Imaging Technology	2
RADT 60	Venipuncture for Radiology	0.5
RADT 86	Fluoroscopy and Radiation Safety	2.5
RADT 86L	Fluoroscopy and Radiation Safety Laboratory	0.5
RADT 101	Basic Radiologic Technology	2
RADT 110	Recording Media	2
RADT 121	Radiographic Exposure	3
RADT 121C	Radiographic Exposure Laboratory	1
RADT 131	Patient Care	3
RADT 190	Radiographic Positioning I	1
RADT 190L	Radiographic Positioning-I Laboratory	1
RADT 192	Image Analysis for Radiologic Technology	2
RADT 201	Radiographic Positioning II	1
RADT 201L	Radiographic Positioning II Laboratory	1
RADT 210	Radiographic Positioning III	1
RADT 210L	Radiographic Positioning III Lab	1
RADT 221	Advanced Imaging Techniques	2
RADT 230	Radiologic Science	2
RADT 231	Pathology for Imaging Sciences	2
RADT 240	Radiation Biology	1
RADT 241	Sectional Anatomy	1
RADT 242	Organization of Radiology	1
RADT 256A	Directed Clinical Practice I	5
RADT 256B	Directed Clinical Practice II	7.5
RADT 256C	Directed Clinical Practice III	6
RADT 257A	Directed Clinical Practice IV	7.5
RADT 257B	Directed Clinical Practice V	7.5
RADT 257C	Directed Clinical Practice VI	6
RADT 275	Computed Tomography Imaging	2
<b>Total Units=</b>		<b>75</b>

**Recommended Electives:** Radiologic Technology 271, 271L, 257D, 275L.

## Associate of Science Degree: Radiologic Technology

<b>Courses Required for the Major:</b>		<b>Units</b>
RADT 50	Concepts in Imaging Technology	2
RADT 60	Venipuncture for Radiology	0.5
RADT 86	Fluoroscopy and Radiation Safety	2.5
RADT 86L	Fluoroscopy and Radiation Safety Laboratory	0.5
RADT 101	Basic Radiologic Technology	2
RADT 110	Recording Media	2
RADT 121	Radiographic Exposure	3
RADT 121C	Radiographic Exposure Laboratory	1
RADT 131	Patient Care	3
RADT 190	Radiographic Positioning I	1
RADT 190L	Radiographic Positioning-I Laboratory	1
RADT 192	Image Analysis for Radiologic Technology	2
RADT 201	Radiographic Positioning II	1
RADT 201L	Radiographic Positioning II Laboratory	1
RADT 210	Radiographic Positioning III	1
RADT 210L	Radiographic Positioning III Lab	1
RADT 221	Advanced Imaging Techniques	2
RADT 230	Radiologic Science	2
RADT 231	Pathology for Imaging Sciences	2
RADT 240	Radiation Biology	1
RADT 241	Sectional Anatomy	1
RADT 242	Organization of Radiology	1
RADT 256A	Directed Clinical Practice I	5
RADT 256B	Directed Clinical Practice II	7.5
RADT 256C	Directed Clinical Practice III	6
RADT 257A	Directed Clinical Practice IV	7.5
RADT 257B	Directed Clinical Practice V	7.5
RADT 257C	Directed Clinical Practice VI	6
RADT 275	Computed Tomography Imaging	2
<b>Total Units =</b>		<b>75</b>

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Radiologic Technology 271, 271L, 257D, 275L.

# Real Estate

Award Type	Units
<b>Associate of Science Degree:</b> Real Estate	27–28*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## Description

The Real Estate program offers a variety of courses which provide students with the technical and practical knowledge needed to succeed in the Real Estate industry. This includes courses that meet the State's educational requirements for the broker's examination and electives for the salesperson's license. Students planning to transfer to a four-year college or university should select the Business Administration major.

## Career Options

- Real Estate Salesperson/Broker
- Real Estate Appraiser
- Real Estate Property Manager
- Real Estate Investor
- Real Estate Loan Officer

## Program Learning Outcomes

Students who complete the Real Estate Program will be able to:

- Explain, analyze, interpret and synthesize real estate concepts, principles and data to evaluate problems, theses, arguments and evidence and to develop supportable conclusions.
- Effectively articulate and respond to real estate information using recognized modes of real estate communication.
- Recognize and respect the real estate opinions and perspectives of others and to enable effectively working with superiors, peers, and subordinates in organized group or team settings.
- Identify, interpret, and apply industry ethics and Standards of Practice to real estate dealings and transactions.

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

## Associate of Science Degree: Real Estate

Courses Required for the Major:		Units
REAL 101	Real Estate Principles	3
REAL 105	Legal Aspects of Real Estate	3
REAL 110	Principles of Real Estate Appraisal I	3
REAL 115	Real Estate Finance	3
REAL 125	Real Estate Economics	3
REAL 120	Real Estate Practice	3
BUSE 119	Business Communications	3

### 6 to 7 units to be selected from the following:

ACCT 116A	Financial Accounting	4
BUSE 140	Business Law & the Legal Environment	3
REAL 130	Real Property Management	3

**Total Units = 27–28**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

### Electives as needed to meet minimum of 60 units required for the degree.

**Recommended Electives:** Accounting 116A, 116B; Business 120, 140, 190, 201; Economics 120, 121; Marketing 100, 105; Mathematics 119; Psychology 101; Real Estate 130.

# Social Sciences

Award Type	Units
<b>Certificate of Performance:</b> Global Culture Studies	15
<b>Associate of Arts Degree:</b> Social Sciences – General	18*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## Description

Social Sciences is a multidisciplinary program promoting an appreciation for the interrelatedness of Geography, History, Philosophy and Political Sciences 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 Program 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 sciences preparation include: teaching, law, social work, public administration, librarianship, counseling, and business.

### Program 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.

<b>Courses:</b>	<b>Units</b>
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

#### Select one of the following:

GEOG 102 Cultural Geography	3
GEOG 104 World Regional Geography	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.

**Note:** This program is not eligible for federal financial aid in accordance with Federal regulations.

### Associate of Arts Degree: Social Sciences (General)

<b>Courses Required for the Major:</b>	<b>Units</b>
HIST 100 World History I	3
<b>and</b>	
HIST 101 World History II	3
<b>or</b>	
HIST 105 Introduction to Western Civilization I	3
<b>and</b>	
HIST 106 Introduction to Western Civilization II	3
<b>Select a 6-unit sequence from two of the following different fields:</b>	
GEOG 102 Cultural Geography	3
<b>and</b>	
GEOG 104 World Regional Geography	3
HIST 109 History of the United States I	3
<b>and</b>	
HIST 110 History of the United States II	3
HIST 115A History of the Americas I	3
<b>and</b>	
HIST 115B History of the Americas II	3
HIST 150 Native Americans in United States History I	3
<b>and</b>	
HIST 151 Native Americans in United States History II	3
PHIL 102A Introduction to Philosophy: Reality and Knowledge	3
<b>and</b>	

PHIL 102B	Introduction to Philosophy: Values	3
PHIL 104A	History Of Western Philosophy: Ancient to Medieval	3
<b>and</b>		
PHIL 104B	History of Western Philosophy: Modern to Contemporary	3
POLI 101	Introduction to Political Science	3
<b>and</b>		
POLI 102	Introduction to American Government	3
POLI 103	Comparative Politics	3
<b>and</b>		
POLI 140	Contemporary International Politics	3
		<b>Total Units = 18</b>

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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, 130, 150 and 151, 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; Art–Fine Art 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
<b>Associate of Arts Degree:</b>	
Sociology	18*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	
<b>Associate in Arts for Transfer Degree:</b>	
Sociology	18

### 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.

### Program Learning Outcomes

Students who complete the Sociology Program will gain facility with:

- Think critically in reading, writing, and/or speaking about topics in Sociology, with a focus on collective, as opposed to individualistics, explanations of human behavior, and an emphasis on the roles of social structure, culture, and social interaction in shaping behavior, both historically and cross-culturally, thereby identifying problems, theses, arguments, evidence and conclusions.
- Write or speak about topics in Sociology, with a focus on collective, as opposed to individualistic, explanations of human behavior, and an emphasis on the roles of social structure, culture, and social interaction in shaping behavior, both historically and cross-culturally, thereby addressing problems, formulating theses, making arguments, analyzing and weighing evidence, and deriving conclusions.
- Demonstrate an ability to understand one's role in society, explain how the theoretical underpinnings of sociology explicitly challenge currently dominant ideologies like individualism and radical subjectivism, and make ethical decisions in complex situations.
- Articulate similarities and contrasts among cultures and global political and economic



systems, and demonstrate an understanding of cultural pluralism.

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

## Associate of Arts Degree: Sociology

<b>Courses Required for the Major:</b>		<b>Units</b>
SOCO 101	Principles of Sociology	3
SOCO 110	Contemporary Social Problems	3

### Select 12 units from the following:

SOCO 125	Sociology of the Family	3
SOCO 150	Sociology of Latinos/Latinas	3
SOCO 201	Advanced Principles of Sociology	3
SOCO 223	Globalization and Social Change	3
SOCO 270	Work Experience	1–4
ANTH 103	Introduction to Cultural Anthropology	3
PSYC 101	General Psychology	3

**Total Units = 18**

**Note:** 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).

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Anthropology 103; Mathematics 119; Psychology 101, 258; Sociology 125, 150, 201, 223, 270.

**Other recommended electives:** Foreign Languages (Although no course in a foreign language is specified in the above recommended electives, 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/Labs, and/or Physical Sciences/Labs)

## Associate in Arts in Sociology for Transfer Degree:

The Associate in Arts in Sociology for Transfer Degree 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. It is accepted by some but not all

CSU campuses. 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.

### Program Learning Outcomes:

Students who complete the Associate in Arts in Sociology for Transfer 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 and understanding of the basic assumptions of human behavior within the discipline: the effects of culture, social structure, and social interactions 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

### Award Notes:

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

#### Courses Required for the Major:

SOCO 101	Principles of Sociology	3
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#### Select two of the following courses:

SOCO 110	Contemporary Social Problems*	3
PSYC 255	Introduction to Psychological Research	3
BIOL 200	Biological Statistics* <b>or</b>	
MATH 119	Elementary Statistics* <b>or</b>	
PSYC 258	Behavioral Science and Statistics*	3

**Select two of the following courses (not selected above):** *(It is recommended that students select courses that meet lower division major preparation requirements for their university.)*

PSYC 166	Introduction to Social Psychology*	3
SOCO 110	Contemporary Social Problems*	3
SOCO 125	Sociology of the Family*	3
SOCO 201	Advanced Principles of Sociology*	3
SOCO 223	Globalization and Social Change*	3
BIOL 200	Biological Statistics* <b>or</b>	
MATH 119	Elementary Statistics* <b>or</b>	
PSYC 258	Behavioral Science and Statistics*	3

**Select one of the following courses (not selected above):** *(It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.)*

ANTH 103	Introduction to Cultural Anthropology*	3
ENGL 105	Composition and Literature*	3
ENGL 205	Critical Thinking*	3
GEOG 102	Cultural Geography	3
PHIL 100	Logic and Critical Thinking*	3
PHIL 205	Critical Thinking and Writing in Philosophy*	3
PSYC 101	General Psychology*	3
PSYC 166	Introduction to Social Psychology*	3
SOCO 110	Contemporary Social Problems*	3
SOCO 125	Sociology of the Family*	3
SOCO 201	Advanced Principles of Sociology*	3
SOCO 223	Globalization and Social Change*	3
BIOL 200	Biological Statistics* <b>or</b>	
MATH 119	Elementary Statistics* <b>or</b>	
PSYC 258	Behavioral Science and Statistics*	3

**Total Units = 18**

\*Course also fulfills general education requirements for the CSU GE or IGETC pattern.

**Note:** Only one statistics course may be applied to the major.

**Electives as needed to meet maximum 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 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
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<b>Associate of Arts Degree:</b>	
Spanish	21*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

<b>Associate in Arts in Spanish for Transfer Degree:</b>	
Spanish	23–25

### 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.

### Program Learning Outcomes

- Demonstrate level-appropriate proficiency on the ACTFL scale in understanding, speaking, reading, and writing of the targeted language.

- Utilize targeted language skills to complete a general program of lower division coursework, pursue language study at the transfer level, for personal enrichment, or for professional development.
- Apply knowledge of and sensitivity to aspects of behavior, attitudes, and values of targeted language-speaking countries to connect with the global community.

## Associate of Arts Degree: Spanish

<b>Courses Required for the Major:</b>		<b>Units</b>
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish <b>or</b>	
SPAN 215	Spanish for Spanish Speakers I	5
SPAN 202	Fourth Course in Spanish <b>or</b>	
SPAN 216	Spanish for Spanish Speakers II	5
SPAN 210	Conversation and Composition Spanish I	3
SPAN 211	Conversation and Composition Spanish II	3
<b>Total Units = 21</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

**Recommended Electives:** Anthropology 103, 107; Chicana and Chicano Studies 135, 138, 150; Art–Fine Art 109, 111; English 202, 220, 221; Geography 102, History 115A, 115B; Music 109; Spanish 101.

## Associate in Arts in Spanish for Transfer Degree:

The Associate in Arts in Spanish for Transfer degree is intended for students who plan to complete a bachelor's degree in Spanish or a related major in the California State university (CSU) system. It is accepted by some but not all CSU campuses. 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.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU

campuses as well as university admission, degree and transfer requirements.

### Award Notes:

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

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
  - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
  - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis.

Electives, as needed, to meet the 60 semester or 90 quarter CSU transferable units required for the degree.

### Program Goals:

The purpose of this Associate in Arts in Spanish for Transfer degree is to offer an organized course of study that will prepare students intending to major in Spanish at the California State University.

### Program Emphasis:

The Associate in Arts in Spanish for Transfer degree emphasizes preparation for the major in Spanish at the California State University.

<b>Courses Required for the Major:</b>		<b>Units</b>
SPAN 101	First Course in Spanish	5
SPAN 102	Second Course in Spanish	5
SPAN 201	Third Course in Spanish	5
<b>or</b>		
SPAN 215	Spanish for Spanish Speakers I	5
SPAN 202	Fourth Course in Spanish	5
<b>or</b>		
SPAN 216	Spanish for Spanish Speakers II	5
<b>Category A: Select one of the following courses (3 units):</b>		
SPAN 210	Conversation and Composition Spanish I	3

SPAN 211	Conversation and Composition Spanish II	3
CHIN 101	First Course in Mandarin Chinese	5
CHIN 102	Second Course in Mandarin Chinese	5
CHIN 201	Third Course in Mandarin Chinese	5
CHIN 202	Fourth Course in Mandarin Chinese	5
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
GERM 101	First Course in German	5
GERM 102	Second Course in German	5
GERM 201	Third Course in German	5
ITAL 101	First Course in Italian	5
ITAL 102	Second Course in Italian	5
ITAL 201	Third Course in Italian	5
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
LATI 101	First Course in Latin	5
LATI 102	Second Course in Latin	5
RUSS 101	First Course in Russian	5
RUSS 102	Second Course in Russian	5
RUSS 201	Third Course in Russian	5
TAGA 101	First Course in Tagalog	5
VIET 101	First Course in Vietnamese	5
VIET 102	Second Course in Vietnamese	5
VIET 201	Third Course in Vietnamese	5
ENGL 105	Composition and Literature	3
ENGL 205	Critical Thinking and Intermediate Composition	3
PHIL 205	Critical Thinking and Writing in Philosophy	3

**Total Units = 23–25**

**Electives as needed to meet maximum 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 a third semester competency in a foreign language.**

**Consult the current catalog of the transfer institution and consult with a counselor.**

## Sustainability

Award Type	Units
<b>Certificate of Achievement:</b> Sustainability	18–20
<b>Associate of Arts Degree:</b> Sustainability	18–20*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

### Description

Sustainability provides students with an interdisciplinary understanding of the biological, social, and economic considerations of issues related to the environment and environmental degradation.

### Program Goals

The Sustainability Program offers students a focused and organized program of study that serves three goals:

- 1) to prepare students to transfer to a CSU, UC, or other four-year institution to major in Sustainability or related discipline;
- 2) to complement students' existing major course of study; and
- 3) to expand job skills for students currently in the workforce

### Program Learning Outcomes

Students who complete the Sustainability A.A. degree will be able to:

1. Analyze practical and theoretical issues related to sustainability from current and historical perspectives.
2. Evaluate perspectives of diverse stakeholders regarding a wide range of sustainability issues.

### Certificate of Achievement: Sustainability

Courses Required for the Major:	Units
SUST 101 Introduction to Sustainability	3
GEOG 101 Physical Geography	3

ECON 121	Principles of Microeconomics	3
MATH 119	Elementary Statistics	3
	<b>or</b>	
PHIL 101	Symbolic Logic	3
	<b>or</b>	
PSYC 258	Behavioral Science Statistics	3
	<b>or</b>	
BUSE 115	Statistics for Business	3
	<b>or</b>	
BIOL 200	Biological Statistics	3

**Select three units from the following:**

PHIL 131	Environmental Ethics	3
ECON 220	Economics of the Environment	3

**Select three to five units from the following:**

SUST 270	Sustainability Work Experience	1–4
PHIL 131 <sup>1</sup>	Environmental Ethics	3
ECON 220 <sup>1</sup>	Economics of the Environment	3
ARCH 231	Sustainability in the Built Environment	4
BIOL 180	Plants and People	3
BUSE 190	Academic and Career Opportunities in Business	1
GEOG 101L	Physical Geography Laboratory	1

<sup>1</sup>If not chosen from "Select Three Units..." above.

**Total Units = 18 - 20**

## Associate of Arts Degree: Sustainability

Courses Required for the Major:		Units
SUST 101	Introduction to Sustainability	3
GEOG 101	Physical Geography	3
ECON 121	Principles of Microeconomics	3
BIOL 200	Biological Statistics	3
	<b>or</b>	
BUSE 115	Statistics for Business	3
	<b>or</b>	
MATH 119	Elementary Statistics	3
	<b>or</b>	
PHIL 101	Symbolic Logic	3
	<b>or</b>	
PSYC 258	Behavioral Science Statistics	3

**Select 3 units from the following:**

PHIL 131	Environmental Ethics	3
ECON 220	Economics of the Environment	3

**Select 3–5 units from the following:**

PHIL 131 <sup>1</sup>	Environmental Ethics	3
ECON 220 <sup>1</sup>	Economics of the Environment	3
SUST 270	Sustainability Work Experience	1–4
BUSE 190	Academic and Career Opportunities in Business	1
BIOL 180	Plants and People	3

ARCH 231	Sustainability in the Built Environment	4
GEOG 101L	Physical Geography Laboratory	1

<sup>1</sup>If not selected from "Select 3 units" (above).

**Total Units = 18–20**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**Electives as needed to meet minimum of 60 units required for the degree.**

## Teacher Education Preparation

See "Liberal Studies Elementary Education Preparation" on page 271.

# Veterinary Technology

Award Type	Units
<b>Associate of Science Degree:</b> Veterinary Technology	42*

\* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

## Description

The Veterinary Technology program prepares students for careers in the veterinary medical arena.

Graduates may become Registered Veterinary Technicians (RVTs) upon passing the National Veterinary Technician Examination (VTNE) and the California supplemental examination.

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 review program information at <http://www.sdmesa.edu/academics/schools-departments/allied-health/>.

## Work Experience Requirement:

Students accepted into this program will be required to successfully complete a clinically-based work experience course held in an animal health care facility. These facilities may require background

checks, including fingerprinting, as a condition of placement at the clinical site.

Refusal to submit to a background check, or failure to meet clearance criteria established by the animal health care facility, may prevent placement at a work experience site and thus, it may not be possible to successfully complete the program.

Animal 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.

### Program Goals

The goal of the Veterinary Technology program is to train students to:

- Properly and safely restrain the various species commonly seen in veterinary medicine.
- Properly and accurately perform a thorough physical exam on the various species seen in veterinary medicine.
- Properly record the results of a physical exam using correct medical terminology.
- Properly and accurately collect, analyze, and interpret blood, urine, fecal, and other samples from large and small animals, exotics, pocket pets and avians.
- 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.

### Career Options

Career options for graduates of the Veterinary Technology program include employment in private veterinary facilities, bio-medical research institutions, regulatory agencies, zoological parks, pharmaceutical companies, and the animal nutrition industry.

### Program Learning Outcomes

Students who complete the Veterinary Technology Program will be able to:

- Apply the knowledge and skills to perform safe and effective clinical procedures relative to the veterinary field.
- Demonstrate professional and ethical behaviors necessary to be a Registered Veterinary Technician (RVT).
- Communicate effectively with other veterinary professionals as appropriate for an RVT.
- Demonstrate critical thinking and problem solving skills both independently and in a team environment.
- Be knowledgeable of the California veterinary laws and regulations as they relate to the RVT.

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

## Associate of Science Degree: Veterinary Technology

<b>Courses Required for the Major:</b>		<b>Units</b>
VTAH 100A	Animal Care and Management	1.5
VTAH 100B	Advanced Animal Care and Management	1.5
VTAH 115	Veterinary Office Procedures	2
VTAH 125	Veterinary Clinical Pathology	3
VTAH 125L	Veterinary Clinical Pathology Laboratory	2
VTAH 135	Veterinary Pharmacology	2
VTAH 140	Veterinary Microbiology and Immunology	2
VTAH 145	Veterinary Anatomy and Physiology	3
VTAH 145L	Veterinary Anatomy and Physiology Lab	1
VTAH 155	Fundamentals of Animal Health Technology	3.5
VTAH 155L	Fundamentals of Animal Health Technology Laboratory	2
VTAH 205	Diseases of Domestic Animals	3
VTAH 215	Veterinary Radiography	3
VTAH 215L	Veterinary Radiography Laboratory	1
VTAH 225	Animal Nursing Techniques and Anesthesiology	3
VTAH 227	Veterinary Surgical and Nursing Procedures Lab	1
VTAH 229	Advanced Surgical Nursing Procedures Lab	1
VTAH 260	Laboratory Animal Medicine	2

VTAH 260L	Laboratory Animals Medicine Laboratory	0.5
VTAH 270	Veterinary Work Experience	4
<b>Total Units = 42</b>		

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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.**

## Web Development

<u>Award Type</u>	<u>Units</u>
<b>Certificate of Achievement:</b>	
Web Design	24
<b>Associate of Science Degree:</b>	
Web Design	33*
* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.	

### 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.
3. 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.
4. To educate students to practice respect for copyright laws and regulations for content on the Web site.
5. 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).

### Program Learning Outcomes

Students who complete the Web Development 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.

## Certificate of Achievement: Web Design

Courses Required for the Major:		Units
MULT 121	Intermediate Visual Communication	3
WEBD 127	Creating User-Centered Content	3
WEBD 152	Beginning Web Development: HyperText Markup Language (HTML) and Cascading Style Sheets (CSS)	3
WEBD 166	PHP: an Introduction	3
WEBD 164	Javascript Fundamentals for Web Development	3
WEBD 167	Using Web Databases	3
WEBD 168	Intermediate HTML (HyperText Markup Language) and CSS (Cascading Style Sheets) for Web Design	3
WEBD 173	E-Commerce Website Creation	3
<b>Total Units = 24</b>		

## Associate of 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
MULT 121	Intermediate Visual Communication	3
WEBD 127	Creating User-Centered Content	3
WEBD 152	Beginning Web Development: HyperText Markup Language (HTML) and Cascading Style Sheets (CSS)	3
WEBD 164	Javascript Fundamentals for Web Development	3
WEBD 166	PHP: an Introduction	3
WEBD 167	Using Web Databases	3
WEBD 168	Intermediate HTML (HyperText Markup Language) and CSS (Cascading Style Sheets) for Web Design	3
WEBD 169	Website Development Using Open Source Content Management Systems	3
WEBD 171	Advanced JavaScript for Web Development	3
WEBD 173	E-Commerce Website Creation	3

WEBD 191 Professional Practices in Web Design 3  
**Total Units = 33**

For graduation requirements see **Requirements for the Associate Degree** on page 106.

**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 of 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.

## Program 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\*

Courses:		Units
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, Film 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.

**Note:** This program is not eligible for federal financial aid in accordance with Federal regulations.

Also see "Associate of Arts Degree: Liberal Arts and Sciences with an Emphasis in Social and Behavioral Sciences—Women's Studies" on page 269.



# 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.

In accordance with California Education Code, Section 78221.5, students have the right to access transfer-level coursework and academic credit English Language Acquisition (ELAC) coursework. Please refer to Assessment on page 19 or see a counselor for details.

## 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.)
- **401–499** Upper division courses. Students must be admitted to a SDCCD college baccalaureate degree program.

Apprenticeship 345, 349, 349-D, DSPS 65, 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 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 26.

***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 **AT LEAST** 10 working days prior to the start of the primary term/semester.

## 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 (44)

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.

### Service Learning—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.

### 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. 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:

- Students 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.
- Students will be able to communicate effectively the key concepts and models developed in ACP courses.
- Students will be able to work collaboratively and independently, using logic and civil discourse to convey their ideas and opinions, while exhibiting personal responsibility for their conduct in any situation, context or medium.
- Students will be able to 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 Limitation. See a counselor or reference ASSIST.org:** 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 or reference ASSIST.org 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.

#### **Exercise Science 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 exercise science classes/intercollegiate sports. Students are strongly advised to consult a physician prior to participating in any exercise science activity.

#### **UC Transfer and Exercise Science 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 exercise science 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.

#### **Course Identification Numbering System (C-ID)**

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. The purpose of a C-ID designation is to identify comparable courses within the California community college system and participating four-year institutions. When a C-ID number is listed in the catalog in association with a course, students can be assured that it will be accepted in lieu of a course bearing the same C-ID designation at another California community college. Many universities, including the University of California (UC) do not participate in the C-ID system. Therefore, students should always reference [www.assist.org](http://www.assist.org) to confirm how each community college’s course will be accepted at a specific four-year college or university for transfer credit.

**(FT)** = A field trip may be required for this course.  
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**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

## Accounting (ACCT)

### 116A Financial Accounting

**4 hours lecture, 4 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 46 with a grade of "C" or better, or equivalent or Milestone M30; Accounting 102 with a grade of "C" or better, or equivalent.

This introductory course is an overview of financial accounting, why it is important, and how it is used by investors and creditors to make decisions. It covers the accounting information system, the recording and reporting of business transactions with a focus on the accounting cycle, the applications of generally accepted accounting principles (GAAP), the classified financial statements, and statement analysis. Other topics include issues related to asset, liability, and equity valuation; revenue and expense recognition; cash flows; internal controls; and ethics. This course is intended for students majoring in accounting or other fields related to business administration. (FT) AA/AS; CSU; UC; C-ID ACCT 110.

### 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. Other topics include profit planning, standard costs, operations and capital budgeting, cost control, and accounting for costs in manufacturing organizations. This course is intended for students majoring in accounting or other fields related to business administration. (FT) AA/AS; CSU; UC; C-ID ACCT 120.

### 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 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. In addition, it demonstrates and differentiates between tax avoidance and tax evasion. This course is intended for students majoring in Accounting or anyone interested in federal income tax concepts and laws. (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. This course is intended for students majoring in Accounting and returning students preparing for their Certified Public Accountant (CPA) exam. 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. This course is intended for students majoring in Accounting. (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 how to use accounting computer programs in a commercial business enterprise. 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 (QuickBooks Pro) on a personal computer. 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. In addition, financial statements are constructed, evaluated, and reviewed for accuracy and completeness. This course is intended for students majoring in Accounting or those interested in computer accounting programs. (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, concepts, standards, and principles of financial accounting, with an emphasis 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 students majoring in the field of accounting and those 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 is a continuation of advanced financial accounting standards, theory, and principles. Topics include the valuation and presentation of liabilities and stockholders' equity; revenue recognition; leases; and tax accounting. This course is intended for students majoring in the field of accounting and those interested in upgrading their accounting job/career skills. (FT) AA/AS; CSU.

**270 Accounting Internship / Work Experience**  
**60–300 hours other, 1–4 units**  
**Grade Only**

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment. This course provides on-the-job learning experiences for students employed in an accounting-related job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. One unit of credit may be earned for each 75 hours of paid employment or 60 hours of volunteer work. This course may be taken up to four times. However, the combined maximum credit for all Work Experience courses from all subject areas may not exceed 16 units. This course is intended for students majoring in Accountancy or those interested in the accounting field. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 326,  
 Art, page 332, and History, page 473)

**Allied Health (ALLH)**

**48 Basic Skills for Health Care Careers**  
**2 hours lecture, 2 units**  
**Letter Grade or Pass/No Pass Option**

This course is designed to prepare students interested in entering the health care industry for the college level interdisciplinary skills required in

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math, oral and written communication. 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**

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 provide students with an opportunity to match individual aptitudes, interests and abilities to specific health careers. (FT) Not applicable to the Associate Degree.

**290 Independent Study**  
**3–9 hours other, 1-3 units**  
**Pass/No Pass**

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment.

This course is for students who wish to conduct additional research, a special project, or learning activities in Allied Health and is not intended to replace an existing course in an Allied Health program. 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. (FT) AA/AS; CSU.

**American Sign Language/  
 Interpreting (AMSL)**

**115 American Sign Language Level I**  
**4 hours lecture, 4 units**  
**Grade Only**

*Corequisite:* American Sign Language/Interpreting 115L.

*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 Fingerspelled Signs as it is used within Deaf Culture. Students are taught to use American Sign Language by signing, fingerspelled signing, 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**115L American Sign Language I (Lab)**  
**3 hours lab, 1 unit**  
**Grade Only**

*Corequisite:* American Sign Language/Interpreting 115.

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language 100.

This laboratory course provides students with the opportunity to apply their American Sign Language (ASL) skills through an individualized program, small groups and large group environment. 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. This 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, fingerspelled signs 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, small groups and large group environment. 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.

### 150 Introduction to Deaf Culture

**3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 104.

This course is an introduction to the unique aspects of Deaf Culture and Deaf community. Emphasis is placed on 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.

### 155 Implications of Deafness

**3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 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; UC.

### 214 American Sign Language Fingerspelled Signs

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 116 with a grade of "C" or better, or equivalent. This course is an intermediate-advanced study of American Sign Language Fingerspelled Signs and Numbering systems. Emphasis is placed on Native Fingerspelled Signs. Students participate in extensive drills expressively and receptively. This course is intended for American Sign Language (ASL) Studies and ASL-English Interpretation majors pursuing employment or a career in ASL and/or Deaf related fields. (FT) AA/AS; CSU.

### 215 American Sign Language Level III

**4 hours lecture, 4 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 116 with a grade of "C" or better, or equivalent.

*Corequisite:* American Sign Language/Interpreting 215L.

*Corequisite:* Completion of or concurrent enrollment in American Sign Language/Interpreting 214 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 200.

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.

**(FT)** = A field trip may be required for this course.  
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**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**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 ASL Fingerspelled Signs, 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 216 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.

**230 Interpretation I**

**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* American Sign Language/Interpreting 214 and 216, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in American Sign Language/Interpreting 235 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 205.

This course introduces students to cognitive and critical thinking skills necessary for interpretation between English and American Sign language, including discourse analysis of source language messages, paraphrasing and summarizing techniques, and identification of main points. Emphasis is placed on the steps necessary to produce an equivalent target language message through transliteration, consecutive interpretation, simultaneous interpretation, and peer collaboration. Students are introduced to the skills and knowledge necessary to become culturally sensitive, ethical, and professional ASL-English interpreters. Instruction for class lectures and discussion may be through two types of modalities, ASL to English and/or English to ASL. Students are expected to have a beginning level of interpreting competency in both

ASL and English in order to succeed in this course as instruction occurs in both languages. This course is designed for ASL-English Interpretation majors and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### **235 Professional Aspects of Interpretation** 3 hours lecture, 3 units Grade Only

*Prerequisite:* American Sign Language/Interpreting 214 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in American Sign Language/Interpreting 230 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 209.

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 may be taught using ASL to English and/or English to ASL. This course is designed for Interpreting majors and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### **240 Interpretation II** 3 hours lecture, 3 hours lab, 4 units Grade Only

*Prerequisite:* American Sign Language/Interpreting 214, American Sign Language/Interpreting 230, and American Sign Language/Interpreting 235, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in American Sign Language/Interpreting 155 and American Sign Language/Interpreting 225, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 207.

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. Instructor may use ASL to English and/or English to ASL techniques when teaching this course. This course is designed for Interpreting majors and accommodates those seeking the

Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### **245 Specialized Settings in Interpretation** 3 hours lecture, 3 units Grade Only

*Prerequisite:* American Sign Language/Interpreting 230, and American Sign Language/Interpreting 235, each with a grade of "C" or better, or equivalent

*Corequisite:* Completion of or concurrent enrollment in American Sign Language/Interpreting 240 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 210.

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, 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. The instructor for this course may use ASL to English and/or English to ASL techniques. This course is intended for students who plan to transfer and/or are interested in becoming an ASL Interpreter by majoring in American Sign Language/Interpreting and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### **250 Interpretation III** 3 hours lecture, 3 hours lab, 4 units Grade Only

*Prerequisite:* American Sign Language/Interpreting 240 and American Sign Language/Interpreting 245, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 206.

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

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
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Milestone formerly referred to as Skill Level

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 may use ASL to English and/or English to ASL techniques when teaching this course. This course is designed for Interpreting majors and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### **255 Interpretation IV**

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 240 and American Sign Language/Interpreting 245, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in: American Sign Language/Interpreting 250 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for American Sign Language/Interpreting 208.

This course is designed to provide advanced development of skills in receiving signed and/or voiced messages and presenting an equivalent message using spoken English, signed English or American Sign Language (ASL) as requested by instructor. Emphasis is placed on advanced sign language receptivity, appropriate word choices, vocal or signed inflection, and English and ASL structure at the advanced voice interpreter level. Instructor may use ASL to English and/or English to ASL techniques when teaching this course. This course is designed for Interpreting majors and accommodates those seeking the Certified Deaf Interpreter (CDI) certificate. (FT) AA/AS; CSU.

### **276 Field Work in Interpretation**

**1.5 hours lecture, 4.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* American Sign Language/Interpreting 250 and American Sign Language/Interpreting 255, 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. This course utilizes ASL and/or English in its instruction at an advanced level. 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 (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## **Anthropology (ANTH)**

### **102 Introduction to Biological 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.

This course is a survey of human evolution, variation, and adaptation. Topics include the study of primates, human heredity, variability of modern populations, and fossil records of early 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; C-ID ANTH 110.

### **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.

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; C-ID ANTH 120.

### **104 Laboratory in Biological Anthropology**

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in Anthropology 102 with a grade of "C" or better, or equivalent.

*Advisory:* English 101 and Mathematics 46, each with a grade of "C" or better, or equivalent or Milestone M30.

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.

### 106 World Prehistory

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course covers the development of human society from the earliest evidence of culture to the beginnings of recorded history. Prehistoric archaeological concepts, methods, and data are used to examine the major transitions in human prehistory, including the origins of culture, agriculture, and early civilization. This course is intended for anthropology majors or anyone interested in world prehistory. (FT) AA/AS; CSU; UC.

### 107 Introduction to Archaeology

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is an introductory study of the history, methods, 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 intended for students planning to major in anthropology and/or continue the study of archaeology at a university. (FT) AA/AS; CSU; UC; C-ID ANTH 150.

### 110 Anthropology of Magic, Witchcraft, and Religion

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

This course is a survey of magic and religion as expressed through rituals, myths, and symbols in cross-cultural perspective. Emphasis is placed on the theoretical and methodological approaches to the study of magic, witchcraft, and religion. This course is intended for students majoring in anthropology

and all other interested students. (FT) AA/AS; CSU; UC.

### 117 Anthropology of Gender and Sexuality 3 hours lecture, 3 units Letter Grade or Pass/No Pass Option

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course provides an overview of anthropological perspectives on gender and sexuality, employing a cross-cultural perspective in order to examine the role of culture and society in shaping specific gender distinctions and normative ideas and expressions of sexuality. Students engage with theoretical and ethnographic texts, photographic representations, films, and other media to identify and critically think about taken-for-granted notions about gender and sexuality. Students conduct a short ethnographic research project about gender and sexuality. This course is designed for all students interested in Anthropology, in Gender and Women's Studies, and in gender and sexuality more generally. (FT) AA/AS; CSU; UC.

### 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.

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.

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
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Milestone formerly referred to as Skill Level

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 101 with a grade of "C" or better, or equivalent.

*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.

**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.

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.

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.

**290 Independent Study**  
**3–9 hours other, 1–3 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Obtain Permission Number from Instructor.

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of anthropology. It 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. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Architecture (ARCH)**

**100 Graphic Design Communication I**  
**6 hours lab, 2 units**  
**Grade Only**

This course is designed for all students who wish to develop basic hand drafting skills for use in Architectural, Construction, and Interior Design programs. Topics include lettering, line control, sketching, use of drafting instruments and the development of architectural presentation drawings. This course is designed for students interested in developing hand drawing skills for use in architecture, interior design, and construction. (FT) AA/AS; CSU.



**101 ArchiCAD****2 hours lecture, 4 hours lab, 3 units  
Grade Only**

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.

**103 Introduction to Architecture and Environmental Design****3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Architecture 100A or Architecture 104.

This course introduces students to the professions of Architecture and Environmental Design. Students are exposed to the education requirements, professional practice, and applications in three major design fields that encompass Architecture and Environmental Design: Architecture, Landscape Architecture, and Interior Design. Presentations include education, history, theory, professional practice, applications, guest lecturers and field trips. This course is recommended for students interested in exploring the field of Environmental Design. (FT) AA/AS; CSU; UC.

**107 Revit****1.5 hours lecture, 4.5 hours lab, 3 units  
Grade Only**

This course is a hands-on study of computer-aided drafting and design (CADD) using 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.

**112 AutoCAD****1.5 hours lecture, 4.5 hours lab, 3 units  
Grade Only**

*Advisory:* Completion of or concurrent enrollment in 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 105.

This course is a hands-on study of computer aided drafting and design (CADD) for design drawings and construction document purposes using AutoCAD. Emphasis is placed on two-dimensional drawing commands to digitally assemble project drawings and to coordinate those drawings into architectural design, interior design and related construction documents. This course is intended for students majoring in architecture and interior design. (FT) AA/AS; CSU.

**115 Architectural Model Making****1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Advisory:* Architecture 100 or Interior Design 112A, each with a grade of "C" or better, or equivalent. The emphasis of this class is shop safety and hands-on model construction. Appropriate tool and materials selection and tool operation (with emphasis on power tools) are covered. The course is intended for architectural and interior design students. (FT) AA/AS; CSU.

**126 History of Ancient World Architecture****3 hours lecture, 3 units  
Grade Only**

This course is an introductory survey of global history of architecture. It covers early stone and wood architecture in relation to cultural and aesthetic elements of world civilization. Emphasis is placed on comparing and contrasting architectural structures including those from the Ancient World, Europe, Middle East, Asia, and the Americas. Historically significant structures are analyzed and technical, regional, and natural influences on architecture are explored. This course is intended for architecture students. (FT) AA/AS; CSU; UC.

**127 History of World Architecture:  
Renaissance Through Contemporary****3 hours lecture, 3 units  
Grade Only**

This course is an introductory survey of Renaissance through Contemporary architecture. Emphasis is placed on comparing and contrasting architectural

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**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

structures including those from Asia, the Americas, Europe, and Middle East. Cultural and aesthetic elements of world civilization are emphasized. This course is intended for architecture students. (FT) AA/AS; CSU; UC.

### **130 Materials of Construction**

**3 hours lecture, 3 units  
Grade Only**

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.

### **141 Professional Practice in Architecture**

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Prerequisite:* Architecture 100 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Architecture 130 with a grade of "C" or better, or equivalent.

This course introduces regional codes and regulations and their application to the professional practice of architecture. Students research regional codes and regulations and apply them to develop architectural construction documents that include site development plans and details, floor plans, reflected ceiling plans and details, roof framing plans and details, floor framing plans and details. Foundation plans and details, door, window, cabinet, and stair details for light wood frame and masonry structures are also included. The American with Disabilities Act (ADA) requirements, sustainability, energy conservation, and life safety is introduced in this course. This course is designed for architecture, interior design and building construction technology students. (FT) AA/AS; CSU.

### **170 Architectural Design**

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50.

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**

**2 hours lecture, 6 hours lab, 4 units  
Grade Only**

*Prerequisite:* Architecture 100 and Architecture 170, 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 on 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.

### **173 Architectural Site Design: Creating Exterior Spaces**

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Prerequisite:* Architecture 100 and 170, each with a grade of "C" or better, or equivalent.

This course is a study of the basic principles of site design, composition and design process in the creation of exterior spaces. This course is designed for any student interested in environmental design. (FT) AA/AS; CSU.

### **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.

*Corequisite:* Completion of or concurrent enrollment in Architecture 173 with a grade of "C" or better, or equivalent.

*Advisory:* Architecture 220 with a grade of "C" or better, or equivalent.

This course an advanced practical study of architectural design based on advanced contemporary architectural theory. Students analyze and design architectural projects with emphasis on the plan, section, building form and issues of sustainability. Students are required to present their design projects to the class. This course is designed for architecture students. (FT) AA/AS; CSU; UC.

**180A Advanced Architectural Design IIA**  
**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 101 with a grade of "C" or better, or equivalent; Architecture 101 or 112 and Architecture 221, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Architecture 180. This course is the second semester of advanced architectural design. Emphasis is placed on building plan, section, and form, as well as on environmental concerns, urban design and sustainability. Students design complex architectural projects to develop their creative abilities and critical thinking skills. Students are required to present their design solutions to juries comprised of class members and design critics from industry. Design projects may also be submitted to various regional student architectural competitions. This course is intended for students majoring in Architecture and professionals in the field who want to hone their design skills. (FT) AA/AS; CSU; UC.

**180B Advanced Architectural Design IIB**  
**3 hours lecture, 6 hours lab, 5 units**  
**Grade Only**

*Prerequisite:* Architecture 180A with a grade of "C" or better, or equivalent.

This course is the third semester of advanced architectural design. Emphasis is placed on issues related to sustainability, materiality, and urban design and context as they relate to building plan, section and form. Students resolve major design problems to further develop their creative abilities and critical thinking skills. Students are required to present their design solutions to juries comprised of members of the class and design critics from industry. This course is intended for students majoring in Architecture and professionals in the field who want to hone their design skills. (FT) AA/AS; CSU; UC.

**180C Advanced Architectural Design IIC**  
**3 hours lecture, 6 hours lab, 5 units**  
**Grade Only**

*Prerequisite:* Architecture 180B with a grade of "C" or better, or equivalent.

This course is the fourth semester of advanced architectural design. Emphasis is placed on the application of contemporary architectural theory as the basis for design decisions related to one

comprehensive design project. Students are required to present their design solutions to juries comprised of members of the class and design critics from industry. This course is intended for students majoring in Architecture and professionals in the field who want to hone their design skills. (FT) AA/AS; CSU; UC.

**205 Estimating**  
**3 hours lecture, 3 units**  
**Grade Only**

This course is an introduction to construction cost estimating. Emphasis is placed on determining the amount of work to be done before applying pricing rules. Topics include basic quantity takeoffs, pricing, appropriate markups, overhead, and specification review. This course is intended for students majoring in Architecture and Building Construction Technology. (FT) AA/AS; CSU.

**220 Graphic Design Communication II**  
**6 hours lab, 2 units**  
**Grade Only**

*Prerequisite:* Architecture 100 with a grade of "C" or better, or equivalent.

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, and color rendering techniques in both non-digital and digital formats. This course is designed for architecture, landscape architecture and interior design majors. (FT) AA/AS; CSU; UC.

**221 Graphic Design Communication III**  
**6 hours lab, 2 units**  
**Grade Only**

*Prerequisite:* Architecture 220 with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is the second course of a sequence. It includes a series of miscellaneous problems designed to develop a digital rendering library. Various media may include, but are not limited to, 3-dimensional (3-D) digital models and color

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rendering techniques. This course includes an introduction to 3-D modeling and presentation software. This course is designed for 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.

This seminar 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 an analysis and 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.

### 231 Sustainability in the Built Environment

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Architecture 230. 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 recommended for students majoring in architecture, interior design, building construction technology and students interested in exploring the field of sustainable building design. (FT) AA/AS; CSU; UC.

### 290 Independent Study

**3–9 hours other, 1–3 units  
Grade Only**

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment. Designed to deal with current problems and topics of special interest in architecture. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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.

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.

### 106 Art of the United States: Colonial to Modern Period

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Art-Fine Art 132. This course provides a survey of art and architecture of the United States, examining theoretical and cultural influences on art from the early Colonial to the Modern periods. The course emphasizes U.S. born artists and artistic developments, as well as indigenous and/or foreign influences that contributed to the development of U.S. art. This course is designed for students interested in U.S. artistic history and culture. (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.

This course provides a survey of contemporary art and architecture examining theoretical and cultural influences on art from the late 20th century to present. The course is designed for students interested in contemporary art history, as well as for art majors who are focusing on contemporary design, painting, sculpture or ceramics. (FT) AA/AS; CSU; UC.

**108 Women in 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.

Women in Art is a survey of art produced by women as well as the representation of women in art from the prehistoric through contemporary period. This course will provide an interdisciplinary overview of art work produced by women artists focusing on the intersection of art, gender and social ideologies. This course will also explore the portrayal of women in art and the manner in which cultural definitions of gender shape women's aesthetic expression and representation. The course is intended for students interested in art, women's studies and the humanities. (FT) AA/AS; CSU; UC.

**109 Modern 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; Art-Fine Art 110 and 111, each with a grade of "C" or better, or equivalent.

This course provides a survey of modern art and architecture examining theoretical and cultural influences on art from the mid-19th century to mid 20th century. The course is designed for students interested in modern art history, as well as for art majors who are focusing on modern design, painting, sculpture or ceramics. (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.

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 101 with a grade of "C" or better, or equivalent.

This course is a survey of the visual arts in western civilization from the Renaissance to the Modern

era. Emphasis is placed on representative art and architecture from the Renaissance, Mannerism, Baroque, Rococo, Neo-Classicism, Romanticism, Impressionism, Post-Impressionism, and Modernism eras. This course is intended for art majors and all students interested in art history, the humanities, and culture. (FT) AA/AS; CSU; UC; C-ID ARTH 120.

**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.

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. Topics include art and architecture produced by groups from Africa, Oceania, and the Americas and emphasize 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 as well as others interested in the humanities. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**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.

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**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.

This course is an introductory survey of Native American art and architecture from the prehistoric period to the present. The course will examine the

(FT) = A field trip may be required for this course.

AA/AS = Associate Degree Applicable

CSU = California State University Applicable

UC = University of California Applicable

Milestone formerly referred to as Skill Level

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**125 Art History: Arts of the Asian Continent**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

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; C-ID ARTH 130.

**130 Pre-Columbian 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.

*Limitation on Enrollment:* This course is not open to students with previous credit for Chicano Studies 231.

This course is a survey of Pre-Columbian art and architecture. Emphasis is placed on the styles representative of Mesoamerican and South American groups. This course is intended for art and art history majors, ethnic studies majors, and all students interested in the humanities. (FT) AA/AS; CSU; UC.

**150A Two-Dimensional Design**  
**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.

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; C-ID ARTS 100.

**150B Beginning Graphic Design**  
**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; Art-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. Students address problems of visual form and organization, but with an emphasis on visual constructions which convey information, and on type and text as graphic components of those constructions. Individualized, hands-on instruction is provided using the Adobe® Creative Cloud programs (Photoshop®, Illustrator®, and InDesign®). This course is intended for anyone interested in computer graphic design applications. (FT) AA/AS; CSU; UC.

**151 Three-Dimensional Design**  
**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.

*Advisory:* Completion of or concurrent enrollment in Art–Fine Art 150A with a grade of “C” or better, or equivalent.

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; C-ID ARTS 101.

**152 Color Theory**  
**2 hours lecture, 4 hours lab, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 and Art-Fine Art 150B, each with a grade of “C” or better, or equivalent.

This course is an introduction to color theory and application. Emphasis is placed on the physical exploration of various color strategies. This course is intended for painters, designers and all students interested in the use of color. (FT) AA/AS; CSU; UC; C-ID ARTS 270.

**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.

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; C-ID ARTS 110.

### 155B Freehand Drawing II

**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.

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; C-ID ARTS 205.

### 161A Museum Studies/Gallery Exhibition Skills 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.

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

**2 hours lecture, 4 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 second semester course in Museum Studies provides for more extensive understanding of the theory of exhibit display and additional practical experience in all aspects of installation of art exhibitions. This course is 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. Students develop, curate and install an exhibit of their own choosing as their final project. (FT) AA/AS; CSU.

### 163 Art Museum/Gallery Internship

**192–216 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; Art-Fine Art 150A and 152, each with a grade of "C" or better, or equivalent.

(FT) = A field trip may be required for this course.  
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Milestone formerly referred to as Skill Level

This course is an introduction to oil and acrylic painting methods and techniques. Emphasis is 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 majoring in Art and those who wish to improve their artistic skills. (FT) AA/AS; CSU; UC; C-ID ARTS 210.

### **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 majoring 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 majoring 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 majoring 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**

**2 hours lecture, 4 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, forms, contexts and content. Emphasis is placed on the basic forms and cultural functions of sculpture (past and present). Students produce sculptural artworks under direct guidance of the instructor. This course is intended for students majoring in art and for all students interested in producing three-dimensional art. (FT) AA/AS; CSU; UC.

### **175B Sculpture II**

**2 hours lecture, 4 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 is an intermediate level course in sculptural materials, processes, forms, context



and content. Emphasis is placed on articulation of sculptural goals and experimentation with materials and methods. Students plan and produce sculptural artworks based on original concepts. This course is intended for art majors and for all students interested in working in three-dimensional art. (FT) AA/AS; CSU; UC.

### 175C Sculpture III

**2 hours lecture, 4 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 is an advanced study in sculptural materials, processes, context and content. Emphasis is placed on the refinement of conceptual skills in their selection and pursuit of sculptural goals. Students experiment with advanced-level concepts and materials to create original sculptural artworks, including large scale pieces. This course is intended for art majors and for all students interested in working in three-dimensional art. (FT) AA/AS; CSU; UC.

### 188 Women and Gender in Photography

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 and Art-Fine Art 190A, each with a grade of "C" or better, or equivalent.

This course explores the relationship between gender and photography, concentrating on representations of women and women identified photographers beginning in the 19th century and addressed in the context of the medium's overall development. Issues of gender and gender identity are examined in relation to subject matter, contextual approaches, media, reception and criticism. This interpretive analysis of the significant influence of women and women identified in photography is structured as a balance of lectures, slide presentations, discussion, and portfolio. The course is designed for photographic art majors and all students interested in improving their ability to understand and discuss photography's unique historical, material and narrative potential. (FT) AA/AS; CSU; UC.

### 190A Black and White Art Photography

**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.

The course provides an introduction to art theory and skill training in analogue photographic image making. Photography is taught as a medium for self-expression, visual literacy and artistic inquiry. Emphasis is on the art making-process, in which photographic images and concepts are explored within social, historical and aesthetic, contexts. Technical instruction is provided in camera operation and exposure, darkroom procedures for film development, print processing and presentation. This course is intended for students preparing for a major in art as well as those interested in photographic processes. (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; Art-Fine Art 190A 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; 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

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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**

**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.

This course is an introductory level ceramics course in which students design and construct hand-built and wheel-thrown ceramic objects. This course is designed for art majors and all students interested in developing ceramic skills. (FT) AA/AS; CSU; UC.

### **195B Ceramics II**

**2 hours lecture, 4 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 101 with a grade of "C" or better, or equivalent.

This course is an intermediate level ceramics course in which students design and construct wheel thrown and hand-built ceramic objects. Emphasis is placed on form and surface enrichment. This course is designed for art majors for students interested in developing ceramic skills. (FT) AA/AS; CSU; UC.

### **196 Clay and Glaze Technology**

**2 hours lecture, 4 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 with a grade of "C" or better, or equivalent.

This course is a study of advanced techniques in clay and glaze formulation, mixing, and testing. Emphasis is placed on the physical and chemical nature of ceramic materials and how they affect glaze fired surface results. This course is intended for students majoring in art and anyone interested in ceramics. (FT) AA/AS; CSU; UC.

### **197A Handbuilding Ceramics I**

**2 hours lecture, 4 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 101 with a grade of "C" or better, or equivalent.

This course provides instruction in the design and construction of hand built ceramic forms. Students create ceramic objects 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**

**2 hours lecture, 4 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:* English 101 with a grade of "C" or better, or equivalent.

This is an advanced level ceramics course in which students design and construct hand-built ceramic forms. Emphasis is placed on form and surface enrichment, weighing, mixing and use of glazes, and loading and firing electric kilns. This course is designed for art majors and for students interested in developing ceramic skills. (FT) AA/AS; CSU; UC.

### **198A Introduction to Printmaking I**

**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 and English 101, with a grade of "C" or better, or equivalent.

This course is an introduction to the basic printmaking media of intaglio, relief, and monoprinting. Emphasis is placed on the techniques for creating and printing plates. Students investigate papers, select for properties, analyze aesthetic strategies for image making, and practice the principles of editioning and print conservation. This course is designed for art majors and all students interested in printmaking. (FT) AA/AS; CSU; UC.

### **198B Introduction to Printmaking II**

**2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art–Fine Art 198A with a grade of "C" or better, or equivalent.

This course is the second semester in basic printmaking media. Emphasis is placed on increasingly complex processes, such as photo intaglio, collagraph, and reduction color relief. Students apply aesthetic criteria in analyzing their creative choices and examine contemporary printmaking in world cultures. This course is designed for art and art history majors and all students interested in printmaking. (FT) AA/AS; CSU; UC.

**198C Introduction to Printmaking III**  
**2 hours lecture, 4 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 is the third semester in printmaking media. Emphasis is placed on the development of a personal visual language through the application of advanced print processes, such as multiple-plate intaglio, double drop printing, mezzotint, and white ground. Students experiment with combining print processes to create a cohesive body of artwork for presentation. This course is designed for art and art history majors and all students interested in printmaking. (FT) AA/AS; CSU; UC.

**200 Photographic Composition and Theory**  
**1.5 hours lecture, 4.5 hours lab, 3 units**  
**Grade Only**

*Advisory:* English 101 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.

**205A Installation, Performance and New Genres**  
**2 hours lecture, 4 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 is an introduction to concept-based New Genres art practices. Emphasis is placed on the

intersection of form/medium and concept as well as on the role of art in contemporary culture. Students develop concepts based on issues related to social commentary, political action, institutional critique, community involvement and personal identity and experiment with forms, such as installation, performance, technological, hybrid and emerging art forms. This course is designed for art majors and anyone interested in contemporary art practices. (FT) AA/AS; CSU, UC.

**210A Life Drawing 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; Art-Fine Art 150A with a grade of "C" or better, or equivalent.

This is a basic course in drawing the human form as a sequence of studies from live models. Accurate and expressive translations of the mass as two-dimensional drawings are refined in a variety of achromatic media. This course is designed for students who are majoring in fine art and is also a relevant foundation for those that are interested in disciplines that use the human form, such as animation and fashion design. (FT) AA/AS; CSU; UC; C-ID ARTS 200.

**210B Life Drawing II**  
**2 hours lecture, 4 hours lab, 3 units**  
**Grade Only**

*Prerequisite:* Art-Fine Art 210A with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent; Art-Fine Art 150A with a grade of "C" or better, or equivalent.

This is an intermediate course in drawing the human form as a sequence of studies from live models. Students work with color and experiment with concepts related to figure drawing. This course is designed for students who are majoring in fine art and is also a relevant foundation for study in disciplines that use the human form, such as animation and fashion design. (FT) AA/AS; CSU; UC.

(FT) = A field trip may be required for this course.  
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 Milestone formerly referred to as Skill Level

**210C Life Drawing III****2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Art-Fine Art 210B with a grade of "C" or better, or equivalent.

This is an advanced course in drawing the human form as a sequence of studies from live models. Students work closely with the instructor to develop, create and present original artwork. This course is designed for students who are majoring in fine art. (FT) AA/AS; CSU; UC.

**220A Life Sculpture I****32–36 hours lecture, 64–71 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 150A and Art-Fine Art 151, each 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.

**220B Life Sculpture II****32–36 hours lecture, 64–71 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.

*Advisory:* Art-Fine Art 150A and Art-Fine Art 151, each 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. 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****32–36 hours lecture, 64–71 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.

*Advisory:* Art-Fine Art 150A and Art-Fine Art 151, each 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 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 100 or Art-Fine Art 150B.

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; C-ID ARTS 250.

**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 Art-Fine Art 155A and Art-Fine Art 165A, each with a grade of "C" or better, or equivalent; English 101 with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in Multimedia 100 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, Art-Fine Art 231, and Art-Fine Art 150A, each with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in Multimedia 100 or Art-Fine Art 150B.

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**

**2 hours lecture, 4 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Art-Fine Art 155B, 165D, 175C, 200, 197B, 198C or 232, each with a grade of "C" or better, or equivalent.

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**

*Corequisite:* Art-Fine Art 150A, 152, 155A, 155B, 165A, 165B, 165C, 165D, 174A, 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. (FT) AA/AS; CSU.

### **280B 3-Dimensional Art Studio Lab**

**3 hours lab, 1 unit  
Pass/No Pass**

*Corequisite:* Art-Fine Art 151, 175A, 205A, 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. AA/AS; CSU.

### **280C Ceramics Studio Lab**

**3 hours lab, 1 unit  
Pass/No Pass**

*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 Lab**

**3 hours lab, 1 unit  
Pass/No Pass**

*Corequisite:* Art-Fine Art 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. AA/AS; CSU.

### **280E Museum Studies Lab**

**3 hours lab, 1 unit  
Pass/No Pass**

*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. AA/AS; CSU.

### **280F Photography Studio Lab**

**3 hours lab, 1 unit  
Pass/No Pass**

*Corequisite:* Art-Fine Art 190A, 194 or 200.

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. AA/AS; CSU.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**290 Independent Study****Hours by Arrangement, 1–3 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain a permission number from instructor for registration. Requires consent of the department.

Open only to those students who have exhausted departmental offerings in their areas of emphasis. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 409, History, page 473, Language Arts and Humanities, page 254, Music, page 501, and Philosophy, page 521)

**Asian Pacific American Studies**

An interdisciplinary approach

(See selected courses in History, page 473)

**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 intended for students with a general interest in astronomy. (FT) AA/AS; CSU; UC.

**102 Exploring The Solar System And Life Beyond The Earth****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

This course investigates the origin of our Solar System and how its contents changed with time. Analysis of the physical properties of planets, moons, rings, comets, asteroids are explored. This course surveys the history of space exploration and

recent discoveries of exoplanets. Additionally, it explores potential for life elsewhere in Solar System and beyond. Challenges of space travel are also examined. This course is designed for students interested in exploring Astronomy. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**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 or Astronomy 102, each with a grade of "C" or better, or equivalent.

This is a laboratory field experience course in general astronomy. Emphasis is placed on the constellations, celestial cycle interpretation, and descriptive observations of astronomical objects and events with and without the use of telescopes. This course is for all students interested in field experience in general astronomy. (FT) AA/AS; CSU; UC.

**111 Astronomy Laboratory****3 hours lab, 1 unit****Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in Astronomy 101 or Astronomy 102, each with a grade of "C" or better, or equivalent.

This laboratory course features exercises and experiments covering the range of topics in 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. This course is designed for students interested in astronomy. (FT) AA/AS; CSU; UC.

**290 Independent Study****3–9 hours other, 1–3 units****Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment.

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of astronomy. It 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 analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

This course is an introduction to the basic principles of ecology. Emphasis is placed on the biological systems, plants, and animals of Southern California through lecture, laboratory, and field trips. Topics include the nature of the physical environment, terrestrial and aquatic ecosystems, evolution and biodiversity, species interactions, and human impacts on natural systems. This course is intended for students interested in environmental biology. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **107 General Biology-Lecture and Laboratory** **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.

*Limitation on Enrollment:* This course is not open to students with previous credit for Biology 105 and Biology 106, Biology 210A, or Biology 210B.

This course is an examination of living organisms and their environment. The lecture and laboratory are intended for students in the Allied Health Track or students majoring in Education or related areas. Topics 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **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.

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 with a grade of "C" or better, or equivalent.

This course is a survey of marine biology. Emphasis is placed on marine organisms, their ecology and their evolutionary adaptations to marine habitats of the ocean environment. Topics include the marine environment and its organisms: plankton, plants, invertebrates, fishes, birds, reptiles, and mammals. Field trips include local marine habitats, aquaria 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 101 with a grade of "C" or better, or equivalent.

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**130 Human Heredity****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

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. This course is designed for students interested in biology and human heredity. (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.

*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 101 with a grade of "C" or better, or equivalent.

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**200 Biological Statistics****2 hours lecture, 3 hours lab, 3 units****Grade Only**

*Prerequisite:* Biology 107 or Biology 210A, each with a grade of "C" or better, or equivalent and Mathematics 116 with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent or English 105 with a grade of "C" or better, or equivalent.

*Advisory:* Biology 107, Biology 210A and Mathematics 116 completed within five years of enrollment in Biology 200.

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 intended for students majoring in biological science. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID SOCI 125.

**205 General Microbiology****3 hours lecture, 6 hours lab, 5 units****Grade Only**

*Prerequisite:* Biology 107, Chemistry 100, and Chemistry 100L, each with a grade of "C" or better, or equivalent or Chemistry 103 or Chemistry 152, and Chemistry 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:* Chemistry 152 and Chemistry 152L, each with a grade of "C" or better, or equivalent; Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50. All prerequisites must be completed within five years of enrollment in Biology 210A.

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in Chemistry 200 and Chemistry 200L.

This course covers biological chemistry, cell structure and function, cellular metabolism, classical and molecular genetics, and the molecular basis of 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.

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course covers the three Domains of life, including the phylogenetic relationships of major groups of organisms. Topics include adaptive radiation, anatomy, physiology, development, behavior, and ecology. This is the second semester of a two-semester sequence designed for biological science and pre-professional majors. (FT) AA/AS; CSU; UC.

## 215 Introduction to Zoology

**2 hours lecture, 6 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Biology 107 with a grade of "C" or better, or equivalent.

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

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 intended for students majoring in Biological Science, Allied Health and Animal Science. (FT) AA/AS; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## 230 Human Anatomy

**2 hours lecture, 6 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Biology 107, 160 or 210A, each with a grade of "C" or better, or equivalent.

*Advisory:* English 101 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. Students relate body structures to their functions by studying histological slides and photomicrographs, anatomical models and charts, and mammalian dissection that may include using prosector cadavers for studying and testing. 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; C-ID BIOL 110B.

## 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. It 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.

**(FT)** = A field trip may be required for this course.  
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**Milestone** formerly referred to as Skill Level

**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:* BIOL 230 completed within five years of enrollment in Biology 232. Preregistration counseling with instructor is highly recommended.

This course provides a supervised study and actual experience in human dissection. Topics include dissection techniques and human anatomy. This course is intended for 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, Chemistry 100, and Chemistry 100L, each with a grade of "C" or better, or equivalent.

This course is an introductory study of human body functions. Emphasis is placed on the nervous, endocrine, muscular, cardiovascular, immune, digestive, respiratory, urinary and reproductive systems. This course is intended for students majoring in nursing, allied health, psychology, biology and physical education. (FT) 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 101 with a grade of "C" or better, or equivalent.

This course is an introduction to the fundamental principles of the anatomy, development, physiology, reproductive biology, genetics, 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**290 Independent Study****3–9 hours other, 1–3 units****Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment.

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 (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

This course is an overview 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 majoring in Black Studies and all students interested in 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 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

This course is an introduction to psychological concepts and principles as they relate to African American behaviors, perspectives 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. This course is intended for students majoring in Black Studies and all students interested in the multicultural aspects of psychology. (FT) AA/AS; CSU; UC.

### 110 African American Art

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

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 for students majoring in Black Studies, Art and those who are interested in history, humanities, teaching, travel, and cultural enrichment. (FT) AA/AS; CSU; UC.

### 111 Cultural Influences on African Art

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent, or Milestone R50 and W50.

This course is a survey of the cultural influences on African art and architecture from the prehistoric period to present. Emphasis is placed on cultural practices that utilize art objects in the form of ritual, oral history and performance. This course is designed for all students interested in the cultural history of Africa in relation art, art history and the humanities. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 116 Contemporary Social Problems from a Black Perspective

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

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.

### 120 Black Music

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent, or Milestone R50 and W50.

This course is a study of African American musical forms and styles in historical perspective. Emphasis is placed on providing students with an appreciation for the African roots of a variety of African American music genres. This course is intended for students majoring in Black Studies and anyone interested in the history of African American music. (FT) AA/AS; CSU; UC.

### 125 Dynamics of the Black Community

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

This course is an introduction to the varying dynamics of the Black community. Emphasis is placed on creating an appreciation for the Black community's unique attributes, resources, and contributions to the larger community. Students visit Black community organizations, institutions and/or businesses to identify a critical need and to develop a corresponding action plan. This course is intended for students majoring in Black Studies and all students interested in understanding the dynamics of the Black community. (FT) AA/AS; CSU; UC.

### 130 The Black Family

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

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. Topics include contemporary African American dating, marriage and divorce patterns, gender roles and extended family, kin and community networks. This course

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

is intended for students majoring in Black Studies and all students interested in the historical and contemporary perspective of the Black family. (FT) AA/AS; CSU; UC.

**140A History of the U.S., Black Perspectives**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent or Milestone R50 and W50.

This course is a survey of United States History from the Colonial period to 1877 with emphasis on African American experiences and contributions. Course content focuses on political, social, economic, and cultural development of the country. This course is intended for all students interested in the history of the U.S. from an African American perspective. (FT) AA/AS; CSU; UC.

**140B History of the U.S., Black Perspectives**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent or Milestone R50 and W50.

This course is a survey of the history of the United States from Reconstruction to the present with emphasis on African American experience and contributions. Course content focuses on political, social, economic, cultural, and intellectual trends, the persistence of racism, and the struggle for full equality for all Americans. This course is intended for all students interested in the history of the U.S. from an African American perspective. AA/AS; CSU; UC.

**145A Introduction to African History**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

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 cultural, political, economic and social institutions, slavery, European conquest and colonization, and African resistance to colonization. This course is intended for students majoring in black studies or history and for all students interested in African history. (FT) AA/AS; CSU; UC.

**150 Black Women in Literature, Film and the Media**

**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

This course analyzes stereotypical, contemporary and self images of Africana women in literature, film and media. This course is designed for Black Studies majors and all students interested in literature, film and media. (FT) AA/AS; CSU; UC.

**155 African American Literature**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent, or Milestone R50 and W50.

This course is a survey of African American cultural expression through language and literature in historical perspective. Emphasis is placed on 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. This course is for students majoring in Black Studies and all students interested in literature from an African American perspective. (FT) AA/AS; CSU; UC.

**165 Sexuality and Black Culture**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Black Studies 265. This course is an in-depth study and analysis of the social and psychological factors that determine the nature of human sexuality in the African-American community. This course is intended for students majoring in Black Studies and all students interested in sexuality and the African-American community. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**175 Psycho-History of Racism and Sexism**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

This course is an analytical study of the historical and psychological impact of racism and sexism on

people in American society and culture. Emphasis is placed on the impact of racism and sexism on human relations in America. This course is intended for students majoring in Black Studies and all students interested in addressing issues related to racism and sexism. AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 409 for complete English course descriptions and page 367 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)

### 55 Construction Plan Reading

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48, and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Building Construction Technology 120.

This course is a practical study of the use and interpretation of construction plans. Students extract construction requirements from building plans and specifications to obtain information needed to install and direct construction, perform building

inspections, prepare estimates, perform appraisals, and maintain buildings. This course is intended for students in Architecture, Interior Design, or Building Construction Technology programs and others who are pursuing careers in these fields. (FT) AA/AS.

### 60 Construction Practices I

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* English 47A or English 48, and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Building Construction Technology 130.

This course provides instruction and hands-on experience related to the practical application of basic framing and layout techniques commonly used in residential and commercial light framing. It is intended for students in Building Construction Technology and Architecture, as well as trade practitioners or others pursuing a career in the construction industry. (FT) AA/AS.

### 61 Construction Practices II

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* English 47A or English 48, and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Building Construction Technology 170.

This course is a practical study of building practices. Emphasis is placed on basic carpentry and finish techniques as well as the integration of plumbing and electrical systems in residential buildings. Topics include coordinating with other trades, building codes and required regulatory inspections. This course is intended for students in the construction management or inspection programs and anyone

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**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
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**Milestone** formerly referred to as Skill Level

interested in residential construction practices. (FT) AA/AS.

## 65 Building Inspection

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48, and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Architecture 130, Building Construction Technology 68, Building Construction Technology 70, each with a grade of "C" or better, or equivalent

*Limitation on Enrollment:* This course is not open to students with previous credit for Building Construction Technology 245.

This class provides students with the skills required to apply the structural and architectural prescriptive requirements of the California Building Code and zoning regulations for design, construction, and inspection of buildings and other fixed works. This course is intended for students in Architecture, Interior Design, and Building Construction Technology, as well as for inspectors, contractors, persons seeking ICC inspection certifications, and construction quality control/assurance personnel. (FT) AA/AS.

## 68 Electrical, Plumbing and Mechanical Codes

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Building Construction Technology 268.

This course is a practical study of the application and interpretation of the California Electrical Code, the California Plumbing Code, the California Mechanical Code, and their relation to other California building codes and their source model codes. This course is designed for students in Architecture, Interior Design, Building Construction Technology, designers, inspectors, contractors, trades people and others interested in building codes. (FT) AA/AS.

## 70 Building Codes and Zoning

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48, and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Building Construction Technology 260.

This course provides students, design professionals, inspectors, appraisers, and construction trade persons with the skills to locate and apply California Building Code (CBC) and local zoning regulations. Emphasis is placed on building design, plan review, and fire and life safety issues. This course is intended for students in Architecture, Building Construction Technology, Interior Design, and inspectors, plancheckers, contractors and others with an interest in the application of California Building Code provisions. (FT) AA/AS.

## 75 Construction Management I

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48, and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Building Construction Technology 250.

This course is a practical study of construction project management. Emphasis is placed on Project Management Institute vocabulary and methodology. Topics include contract terms and conditions within the context of project scope management, project time management, project cost management, project quality management, project resource management, project communications management, project risk management, and project procurement management while satisfying project deliverables. This course is designed for students in Architecture, Building Construction Management, superintendents, and others with an interest in project management. (FT) AA/AS.

## 80 Construction Project Management and Scheduling

3 hours lecture, 3 units  
Grade Only

*Advisory:* English 47A or English 48, and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30; Building Construction Technology 75 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Building Construction Technology 255.

This course is a practical study of construction project management and scheduling. Emphasis is placed on the vocabulary, technology, tools and techniques, risks, and contractual issues related to the development, acceptance, execution, monitoring, and modification of project schedules as they relate to stakeholders and project deliverables. This course is intended for students in Architecture and Construction Management as well as contractors, subcontractors superintendents and others with an interest in project management and scheduling. (FT) AA/AS.

## 95 Building Contractor's License Law

3 hours lecture, 3 units  
Grade Only

*Advisory:* English 47A or English 48, and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Building Construction Technology 295.

This course provides students with the knowledge and skills required to apply the rules and regulations governing construction contracting in California. Emphasis is placed on preparing students to sit for the License Law portion of the various Contractor's License exams administered by the California Contractor's State License Board. This course is intended for students in the Architecture, Interior Design, and Building Construction Technology programs and persons planning on taking the contractor's license examination or who are interested in utilizing construction contracting services. (FT) AA/AS.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised***

***Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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:* Business 92 with a grade of "C" or better, or equivalent or English 42 and English 43, each with a grade of "C" or better, or equivalent or Milestone R4 and W4.

This introductory course for both business and non-business majors provides a broad understanding of the business community, including how culture; society; economic systems; legal, international, political, and financial institutions; and human behavior interact to affect a business organization's policies and practices within the U.S. and a global society. Topics include business functions and terminology; organizational structure and design; leadership; human resource management; organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, and financial practices; the stock and securities market; and occupational choices. This course is intended for students majoring in Business or anyone interested in the function and role of the business community. (FT) AA/AS; CSU; UC; C-ID BUS 110.

### 101 Business Mathematics

3 hours lecture, 3 units  
Grade Only

*Advisory:* Mathematics 46 or Mathematics 92, each with a grade of "C" or better, or equivalent or Milestone M30 or M40, or Mathematics 59 with a grade of "C" or better, or equivalent.

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This course provides a comprehensive study of mathematical concepts and computational techniques used in business. Topics include the mathematics of bank services; payroll; buying and selling; interest and loans; taxes; insurance; depreciation; and annuities, stocks, and bonds. Students also use descriptive statistics to evaluate business-related data and quantitative reasoning skills to select among different options in business-related decisions. This course is intended for students majoring in business or others who work or intend to work in a business setting such as managers, supervisors, or work team members. (FT) AA/AS; CSU.

### 115 Statistics for Business

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Mathematics 59 or Mathematics 57A, each with a grade of "C" or better, or equivalent or Mathematics 92 or Mathematics 96, each with a grade of "C" or better, or equivalent or Milestone M40 or M50.

*Advisory:* Computer Business Technology 140 or Computer Business Technology 143, each with a grade of "C" or better, or equivalent.

This course is a study of statistical analysis. Topics include descriptive statistics, probability, confidence intervals, hypothesis testing, analysis of variance (ANOVA), and regression and correlation analyses as aids for business decision making. This course is designed for students majoring in business, economics, information technology, social science, or related fields. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID MATH 110.

### 119 Business Communications

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* English 101 with a grade of "C" or better, or equivalent.

This course applies the principles of effective and ethical communication to the creation of letters; memos; emails; and written and oral reports for a variety of business situations. The course emphasizes the development, analysis, organization, and composition of various types of professional-level written messages, analytical reports, and business presentations using word processing and presentation-graphics software. Other topics include interpersonal communication, electronic media, and international/cross-cultural communication. This

course is intended for students majoring in business and for others working in a business environment. (FT) AA/AS; CSU; C-ID BUS 115.

### 120 Principles of Money Management

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Consumer Studies 110.

This course is an introduction to the principles of money management. Students examine their personal relationships with money and explore the psychological, sociological, and physiological factors that influence financial decisions. Emphasis is placed on financial goal setting, culminating in the development of a personal budget and financial plan. Other topics include income generation and career planning; effective spending decisions including major consumer purchases and real estate; savings strategies; credit building; insurance; retirement and estate planning; investment options; and the interrelationships among financial, social, physical, and mental health. This course is intended for all students interested in personal finance and money management. (FT) AA/AS; CSU; UC.

### 127 Social Media for Business

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

This course explores the use of social media in business. Students learn how to develop a social media strategy to promote business and build strong customer relations utilizing best practices in digital content development and distribution. Topics include foundations of social media and digital marketing, overview of social media platforms and methods for measuring and evaluating performance. This course is designed for students majoring in business or marketing, others working in a business environment or those interested in digital marketing. (FT) AA/AS; CSU.



**129 Introduction to Entrepreneurship**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of “C” or better, or equivalent or Milestone M30.

Students in this course develop an understanding of the complex tasks faced by individuals engaged in entrepreneurial activities. Emphasis is placed on understanding and identifying the psychological traits and behaviors of the entrepreneurial mindset, the ideation process, feasibility planning, resource acquisition, pitching a business idea and the conceptual steps for launching a new business venture. This course is designed for all students interested in understanding entrepreneurship and how small businesses prepare to launch. (FT) AA/AS; CSU.

**140 Business Law and the Legal Environment**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent or Milestone R50 and W50; 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 and ownership types; government agencies and regulation; protection of intellectual property interest; and the international business environment. This course is intended for students majoring in business and for others interested in business law. (FT) AA/AS; CSU; UC; C-ID BUS 120, BUS 125.

**150 Human Relations in Business**  
**3 hours lecture, 3 units**  
**Grade Only**

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 who work or intend to work 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:* 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. Topics include human resource management, marketing for small business, and legal issues. This course is intended for students majoring in Business or anyone interested in owning or operating a small business. (FT) AA/AS; CSU.

**190 Academic and Career Opportunities in Business**

**1 hour lecture, 1 unit**  
**Grade Only**

*Advisory:* English 42 and English 43, each with a grade of “C” or better, or equivalent or Milestone R4 and W4.

This course is a study of career options in the field of business administration. Emphasis is placed on the identification of career-related strengths and interests and information on post-baccalaureate options in related fields within business administration. This course is designed for students interested in majoring in business administration. (FT) AA/AS; CSU.

**201 Business Organization and Management**  
**3 hours lecture, 3 units**  
**Grade Only**

This course covers business organization and management fundamentals with a focus on the managerial functions of planning, organizing, leading, and controlling. Other topics include managerial ethics, corporate social responsibility, and personal management skills and techniques. This course is intended for students majoring in business and for others who work or intend to work in a position of organizational responsibility such as managers and supervisors. (FT) AA/AS; CSU.

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**205 Leadership Theory and Practice****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Administration of Justice 205, 386 or Military Studies 110.

This course provides an interdisciplinary foundation in the field of leadership theory and practice. Students study the principles, definitions, and various models of leadership. Topics include the psychological, social, cultural, and physiological aspects of leadership such as traits, skills, styles, and processes; contingency, path-goal, and leader-member exchange theory; the mind-body relationship; and ethics. Students also develop a personal philosophy of leadership and its application to the workplace and everyday life. This course is designed for current or future leaders in businesses; public safety or other governmental agencies; nonprofit organizations; or the armed forces. (FT) AA/AS; CSU; UC.

**210 Human Resources Management****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

This course introduces human resource management in business. Topics include the scope of human resource management, employee advocacy, employment law, recruiting, training, employee development, performance management, compensation and benefit programs, managing diversity and global operations, collective bargaining, and using human resources as a competitive advantage. This course is intended for students majoring in business and for others who work or intend to work in business settings such as supervisors, managers, or in human resources. (FT) AA/AS; CSU.

**270 Business Internship / Work Experience****60–300 hours other, 1–4 units  
Grade Only**

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment.

This course provides on-the-job learning experiences for students employed in a business-related job or internship. Students develop workplace competencies, critical thinking skills,

and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. One unit of credit may be earned for each 75 hours of paid employment or 60 hours of volunteer work. This course may be taken up to four times. However, the combined maximum credit for all Work Experience courses from all subject areas may not exceed 16 units. This course is intended for students majoring in Business or those interested in the business field. (FT) AA/AS; CSU.

**290 Independent Study****3 - 9 hours other, 1-3 units****Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment.

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of business. It 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. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Chemistry (CHEM)****16 Workshop for Introduction to General Chemistry****1.5 hours lab, 0.5 units  
Pass/No Pass**

*Corequisite:* Chemistry 152.

This is a guided problem solving course designed to supplement lecture material in Introduction to General Chemistry. Focus is placed on nomenclature, dimensional analysis, chemical equations, stoichiometry, and solutions chemistry. This course is recommended for students concurrently enrolled in Introduction to General Chemistry lecture who wish to supplement their instruction. (FT) Not applicable to the Associate Degree.

## 20 Introduction to General Chemistry Refresher

**1.5 hours lab, 0.5 units  
Pass/No Pass**

This course is designed for students that have successfully completed Introduction to General Chemistry, but need a review course before beginning the General Chemistry. Also, students who have completed high school chemistry and wish to prepare for the challenge exam for General Chemistry may also benefit. Focus is on chemical calculations, density, molar mass, molarity, stoichiometry, and nomenclature. This course consists of personalized computer assisted instruction to refresh key chemical concepts. This course will not replace a failing grade in Introduction to General Chemistry. It does not satisfy the prerequisite for General Chemistry I. (FT) Not applicable to the Associate Degree.

## 100 Fundamentals of Chemistry

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 92 or Mathematics 96, each with a grade of "C" or better, or equivalent or Milestone M40 or M50.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 100L with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for or concurrent enrollment in Chemistry 152, or Chemistry 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 intended for 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID CHEM 101.

## 100L Fundamentals of Chemistry Laboratory

**3 hours lab, 1 unit  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 92 or Mathematics 96, each with a grade of "C" or better, or equivalent or Milestone M40 or M50.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 100 with a grade of "C" or better, or equivalent.

This laboratory course is designed to illustrate the principles of inorganic and physical chemistry and to familiarize students with scientific reasoning, basic laboratory equipment and safe practices, scientific data collection methods and interpretation. This laboratory course is intended for students majoring in nursing, nutrition and allied health sciences, and provides a foundation for future lab work in chemistry. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID CHEM 101.

## 103 General, Organic, and Biological Chemistry

**4 hours lecture, 3 hours lab, 5 units  
Grade Only**

*Prerequisite:* Mathematics 92 or 96, each with a grade of "C" or better, or equivalent or Milestone M40 or M50.

*Limitation on Enrollment:* This course is not open to students with previous credit for the combination of Chemistry 100, 100L, 130 and 130L.

This course is a one-semester survey of general, organic, and biological chemistry for nursing and other health-related fields. Topics include general chemistry, organic chemistry, and biological chemistry as they apply to the human body. The laboratory component includes qualitative and quantitative experiments as well as analysis of data. This course is intended for students majoring in nursing, nutrition, or allied health fields. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## 111 Chemistry in Society

**3 hours lecture, 3 units  
Grade Only**

This course emphasizes conceptual, not mathematical, topics in chemistry and scientific thinking. Current issues in environmental chemistry such as energy resources, air and water pollution are explored. Students discuss the effects and

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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 household items. Students 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. This course is intended for non-science majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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.

This course illustrates the principles of chemistry 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. This laboratory course is intended for non-science majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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 Milestone M50.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 152L with a grade of "C" or better, or equivalent.

*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 the principles of inorganic and physical chemistry in preparation for General Chemistry. Topics include atomic structure, chemical nomenclature, periodicity, chemical equations, stoichiometry, solutions, and gas laws. Emphasis is placed on problem solving and chemical calculations. This course is intended for those students majoring in one of the natural sciences, engineering, or related curricula who need to take General Chemistry. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## 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 Milestone M50.

*Corequisite:* Completion of or concurrent enrollment in Chemistry 152 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Chemistry 151. This course is a one-semester laboratory in the principles of inorganic and physical chemistry in preparation for General Chemistry. Topics include chemical measurement, significant figures, laboratory safety, laboratory techniques, chemical reactions and stoichiometry. Emphasis is placed on problem solving, data analysis and chemical calculations. This course is intended for students majoring in one of the natural sciences, engineering or related curricula who need to take General Chemistry. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## 160 Introductory Biochemistry

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Chemistry 130 with a grade of "C" or better, or equivalent.

This course is an introduction to the chemistry of biochemical reactions and biochemical molecules. Topics include acid/base chemistry, thermodynamics, cell biology, amino acids and proteins, enzymes, lipids, membranes and transport, carbohydrates, metabolism, nucleic acids and information transfer. This course is designed for students majoring in nutrition, allied health, nursing, and the chemical or life sciences. (FT) AA/AS; CSU; UC.

## 200 General Chemistry I – Lecture

**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 Milestone M50; Chemistry 152 and Chemistry 152L, each with a grade of "C" or better, or equivalent.

*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; C-ID CHEM 110; C-ID CHEM 120S (CHEM 200, 200L, 201, 201L).

## 200L General Chemistry I – Laboratory

**6 hours lab, 2 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 152 and Chemistry 152L, each with a grade of "C" or better, or equivalent; Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50.

*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; C-ID CHEM 110; C-ID CHEM 120S (CHEM 200, 200L, 201, 201L).

## 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; Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50.

*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

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**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

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; C-ID CHEM 120S (CHEM 200, 200L, 201, 201L).

**201L General Chemistry II – Laboratory**  
**6 hours lab, 2 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Chemistry 200 and Chemistry 200L, each with a grade of “C” or better, or equivalent; Mathematics 96 with a grade of “C” or better, or equivalent or Milestone M50.

*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, acids, bases, and salts, thermochemistry, electrochemistry, coordination chemistry. Computer skills are introduced and applied to data analysis, laboratory simulations, and computer interfacing with laboratory equipment. (FT) AA/AS; CSU; UC; C-ID CHEM 120S (CHEM 200, 200L, 201, 201L).

**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 or English 105, each 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. Emphasis is placed on the reactions of aliphatic compounds,

such as alkanes, cycloalkanes, alkenes, alkynes, alkyl halides, and alcohols. 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 students pursuing a degree in the chemical sciences or training in chemical technology, as well as other transfer students who need organic chemistry as part of preparation for majors, such as molecular biology, premedical, pre dental, and pharmacy. (FT) AA/AS; CSU; UC; C-ID CHEM 160S (CHEM 231, 231L, 233, 233L).

**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 101 or English 105, each with a grade of “C” or better, or equivalent.

This laboratory course is designed to illustrate the principles presented in the first semester of organic chemistry. Emphasis is placed on the determination of physical properties and the separation, purification and identification of organic compounds. This 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, such as alkanes, alkenes, alkynes, alkyl halides, and alcohols. The organic chemistry literature and spectral interpretation using techniques, such as infrared and nuclear spectroscopies, are introduced to support the above topics. This course is designed for students pursuing a degree in the chemical sciences or training in chemical technology, as well as other transfer students who need organic chemistry as part of preparation for majors, such as molecular biology, premedical, pre dental, and pharmacy. (FT) AA/AS; CSU; UC; C-ID CHEM 160S (CHEM 231, 231L, 233, 233L).

### 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. Major themes include, but are not limited to, molecular structure, molecular behavior, nomenclature, reaction mechanisms, and synthesis. 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 and 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 degree in the chemical sciences or training in chemical technology, as well as other transfer students who need organic chemistry as part of preparation for majors, such as molecular biology, premedical, pre dental, and pharmacy. (FT) AA/AS; CSU; UC; C-ID CHEM 160S (CHEM 231, 231L, 233, 233L).

### 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 designed to illustrate the principles presented in the second semester of organic chemistry. Emphasis is placed 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 the first semester of organic chemistry laboratory. This course is designed for students pursuing a degree in the chemical sciences or training in chemical technology, as well as other transfer students who need organic chemistry as part of preparation for majors, such as molecular biology, premedical, pre dental, and pharmacy. (FT) AA/AS; CSU; UC; C-ID CHEM 160S (CHEM 231, 231L, 233, 233L).

### 251 Quantitative Analytical Chemistry

**3 hours lecture, 6 hours lab, 5 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 Mathematics 121 or Mathematics 150, each with a grade of “C” or better, or equivalent.

*Advisory:* English 101 or English 105, each 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. This course is intended for students majoring in chemistry or biochemistry and others who need the course for career advancement. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

## Chicana and Chicano Studies (CHIC)

### 110A Introduction to Chicana and Chicano Studies

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

This course is an introductory survey of the field of Chicana/o 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 Chicana/o Studies and/or Social Sciences and all students interested in Chicana/o culture. (FT) AA/AS; CSU; UC.

### 110B Introduction to Chicano Studies

**3 hours lecture, 3 units**

**Grade Only**

This course is a survey of the field of Chicano Studies and the historical and contemporary factors that influence Chicano society. Emphasis is placed on the Chicana/o experience in the United States through an analysis of the social, political, and economic factors that impact and shape the Chicana/o community. This course is designed all students interested in Chicano Studies. (FT) AA/AS; CSU; UC.

### 130 Mexican Literature in Translation

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

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**

This is a survey course that examines the literary expressions of the Chicana/o people in the United States with an emphasis on the early 1800s to the present. Students in this class read and discuss works from a variety of literary genres. Students also read and discuss works from important contributors

to the body of Chicana/o Literature in order to understand how the literature reflects the historical, socio-political, cultural experiences of the Chicana/o in the United States and its relationship to global literary movements. This course is designed for Chicana/o Studies majors and anyone interested in literature. (FT) AA/AS; CSU; UC.

### 138 Literature of La Raza in Latin America in Translation

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

This course is a survey of the novels, short stories, poetry and films produced in Latin America since the early civilizations to the present. Emphasis is placed on major cultural works reflecting and questioning the historical legacies and material realities of the project of colonialism in the Americas and its peoples. This course is for all students with an interest in the study of Latin American literature and culture. (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**

This course is a survey of early American history from the Mexican/Chicano perspective. Emphasis is placed on the period of discovery to the period of Reconstruction with emphasis on the evolution, influence, and experience of the Chicano. Students analyze Chicano contributions to the political, social, economic, and cultural development of the United States. This course is intended for all students interested in history, ethnic studies, or other social sciences. (FT) AA/AS; CSU; UC.

### 141B United States History from a Chicano Perspective

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

This is a survey course in American history that covers the period of the American acquisition in 1848 of Mexico to the present. Emphasis is placed on the role of Chicanos in the development of the United States throughout the nineteenth and twentieth centuries. Topics include slavery in the former Mexican territories, the Native American experience, immigration patterns and constitutional development and government in California. This course is intended for all students interested in history, ethnic studies, or other social issues. (FT) AA/AS; CSU; UC.



**150 History of Mexico****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

This course is a survey of Mexican history from the ancient times to the present. Special emphasis is given to major historical developments from the time of the Spanish Conquest to the Revolution of 1910 and its aftermath. Special consideration is given to the economic, political, social, and cultural factors which have shaped modern Mexico. This course is designed for students majoring in Chicano Studies or History and prepares students for careers dealing with Mexico and/or Mexican culture and the relationships between Mexico and the United States. (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.

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**

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 The Indigenous Tradition of Mexico and Ancient Mesoamerica****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

This course examines the Indigenous traditions of Mexico and Ancient Mesoamerica. The course explores the culture and history of the Mesoamerican civilizations and their relationship with the societies of Aridamerica and Oasisamerica, and the experiences of the Indigenous communities

from the colonial times to the present. This course is intended for students who are pursuing a major in Chicana and Chicano Studies, History, Ethnic Studies, or other Social Sciences, and all students interested in the Mexican culture. (FT) AA/AS; CSU; UC.

**210 Chicano Culture****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

This course is a study of Chicana/o culture in the United States. Emphasis is placed on historical and contemporary representations of Chicana/os through their cultural products, such as music, dance, theatre, literature and film. Students apply Cultural Studies theories to analyze and interpret Chicana/o cultural products. This course is designed for all students interested in Chicana/o culture. (FT) AA/AS; CSU; UC.

**230 Chicano Art****3 hours lecture, 3 units****Grade Only**

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. Emphasis is placed on the historical, social and cultural context of the Chicana/o art movement and the major forces that shape artistic creation within this field. Topics include Chicano paintings, murals, prints, sculpture, installation, performance and video. This course is designed for all students interested in Chicana/o 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 a permission number from instructor for registration.

For students with advanced background in Chicano Studies who wish to study special problems or work on specialized projects. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised***

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

**Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 409 for complete English course descriptions and page 367 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

## Child Development (CHIL)

### 101 Human Growth and Development

**3 hours lecture, 3 units  
Grade Only**

This course examines the interrelationship among the physical, cognitive, and psychosocial growth and development of individuals from conception through adolescence. Emphasis is placed on 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; C-ID CDEV 100.

### 111 Curriculum: Music and Movement

**3 hours lecture, 3 units  
Grade Only**

This course introduces the function of music and fundamental movement skills in early childhood educational programs. Emphasis is placed on the development of music and movement skills, basic

teaching and guidance techniques, and selection of appropriate materials and equipment. Other topics include designing and implementing curriculum plans that are appropriate for a variety of age groups and developmental levels. This course is intended for students interested in working in early childhood education, obtaining California child development permits, and transferring to four-year institutions. (FT) AA/AS; CSU.

### 121 Curriculum: Art

**3 hours lecture, 3 units  
Grade Only**

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**

*Limitation on Enrollment:* This course is not open to students with previous credit for Child Development 133 or Child Development 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**

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 22 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 Child Development 111 or Child Development 121 or Child Development 131 or Child Development 133 or Child Development 135, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Child Development 270 or Child Development 275, each with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course focuses on planning the preschool learning environment to promote optimal development. Emphasis is placed on curriculum planning, guidance, safety, record keeping, observation techniques, project planning, and classroom management. Students enrolled in this course must be concurrently working in a preschool learning environment under the supervision of a person holding a Child Development Master Teacher Permit or the equivalent. This course is intended for students pursuing teaching careers in early care and education settings and partially fulfills State of California Permit and Title 22 teacher requirements. (FT) AA/AS; CSU.

### 155 Supervised Field Study Seminar

**1 hour lecture, 1 unit  
Grade Only**

*Corequisite:* Child Development 151 and Child Development 270.

This seminar course provides students with the opportunity to critically reflect on their student teaching fieldwork in order to effectively apply the principles and best practices of early care and education programs to their on-site work experience. This course is intended for students seeking teaching positions in early care and education settings and partially fulfills State of California Permit and Title 22 teacher requirements. (FT) AA/AS; CSU.

### 160 Observing and Understanding Children

**1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*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. This course is intended for students majoring in child development and parents of children enrolled in the campus child development center. This course partially fulfills the specialization requirements for the State of California Master Teacher Permit. (FT) AA/AS; CSU.

### 161 Observations and Issues in Child Development

**1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*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 is intended for students majoring in child development and parents of children enrolled in the campus child development center. It partially fulfills the specialization requirements for the State of California Master Teacher Permit. (FT) AA/AS; CSU.

### 165 Children With Special Needs

**3 hours lecture, 3 units  
Grade Only**

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

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

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 Curriculum for Diverse Learners**  
**3 hours lecture, 3 units**  
**Grade Only**

This course is an in-depth study of inclusive environments, guidance techniques, and curriculum planning strategies that are designed to meet the needs of the diverse children and families in our current society. Emphasis is placed on cognitive, physical, social- emotional, cultural, and linguistic diversity, and how well-designed environments, intentionally planned curriculum, and supportive behavioral strategies work together to provide a classroom that is welcoming and ensures that all children and families in the program thrive. This course is designed for parents, teachers, nurses, social workers, and paraprofessionals employed in schools and early childhood 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**

This course examines the physical, social, emotional, and cognitive development of the infant and toddler and appropriate strategies to support this development. Emphasis is placed on culturally responsive techniques that support diverse family practices and connections. 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 fulfills the infant-toddler specialization requirement for the State of California Master Teacher Permit when taken in addition to CHIL 176. It is intended for students majoring in child development, parents, or those interested in infant-toddler care. (FT) AA/AS; CSU.

**176 Principles of Infant-Toddler Caregiving**  
**3 hours lecture, 3 units**  
**Grade Only**

This course is a study of the principles of infant-toddler care, including all aspects of infant and toddler development. Emphasis is placed on planning 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 meets State of California Title 22 licensing regulations for teachers in infant-toddler settings and fulfills the infant-toddler specialization requirement for the State of California Master Teacher Permit when taken in addition to CHIL 175. It is intended for students majoring in child development, parents, or those interested in infant-toddler care. (FT) AA/AS; CSU.

**180 Nutrition, Health and Safety for Children**  
**3 hours lecture, 3 units**  
**Grade Only**

This course is a survey of the nutritional, health, and safety needs of children from infant/toddlers through preschool age. Topics 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 meets the Title XXII, fifteen hour, Health and Safety Training requirement, including signs and symptoms of child abuse. It is intended for students majoring in child development and practicing child development professionals. (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:* Child Development 111, 121 or 131, each 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 intended 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 is a study of the supervisory tools and techniques required to organize and evaluate early childhood programs. Emphasis is placed on supervisory functions, in-service staff training, educational philosophies, program and staff evaluation, models of parent education and involvement, and supportive services. This course is designed for students who intend to go into supervisory positions in early childhood education, and 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. (FT) AA/AS; CSU.

## 270 Work Experience

**60–300 hours other, 1–4 units  
Grade Only**

This course is for Child Development students to acquire on-the-job training within an early care and education facility and partially fulfills State of California Permit and Title 22 teacher requirements. The combined maximum credit for all work experience course work from all disciplines may not exceed 16 units. (FT) AA/AS; CSU.

## 275 Supervised Field Study

**3 - 9 hours other, 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 fieldsite supervisors. This course is intended for students who plan to teach or supervise in early childhood settings. It partially fulfills Title 22 and

the State of California Child Development Permit experience requirement. (FT) AA/AS; CSU.

## 290 Independent Study

**Hours by Arrangement, 1–3 units  
Grade Only**

*Limitation on Enrollment:* Must obtain a permission number from instructor for registration.

Investigation of a special area in the field of Child Development. (FT) AA/AS; CSU.

## 291A Child Development Center Practicum

**3 hours lab, 1 unit  
Grade Only**

This course provides directed laboratory experience in the campus Child Development Center. 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. It is intended for students who plan careers in early childhood and family support programs and for parents who seek practical experience in guiding and teaching children. (FT) AA/AS; CSU.

## 291B Child Development Center Practicum

**3 hours lab, 1 unit  
Grade Only**

This course provides directed laboratory experience in the campus Child Development Center. 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. It is intended 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. (FT) AA/AS; CSU.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**291C Child Development Center Practicum**  
**3 hours lab, 1 unit**  
**Grade Only**

This course provides directed laboratory experience in the campus Child Development Center. 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. It is intended for students who plan careers in early childhood and family support programs and for parents who seek practical experience in guiding and teaching children. (FT) AA/AS; CSU.

**291D Child Development Center Practicum**  
**3 hours lab, 1 unit**  
**Grade Only**

This course provides directed laboratory experience in the campus Child Development Center. 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. It is intended for students who plan careers in early childhood and family support programs and for parents who seek practical experience in guiding and teaching children. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Chinese (CHIN)**

**101 First Course in Mandarin Chinese**  
**5 hours lecture, 5 units**  
**Letter Grade or Pass/No Pass Option**

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**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 with a grade of C or better, or equivalent. 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**  
**Letter Grade or Pass/No Pass Option**

*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 (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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**

*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**

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech 103.

This course is an introduction to speechmaking. Emphasis is placed on the skills required to organize and deliver various types of speeches. Students give several speeches with and without visual aids. This course is designed for Communication Studies majors and for students interested in honing their speech skills. (FT) AA/AS; CSU; UC; C-ID COMM 110.

### 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.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

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**

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech Communications 117A. Tryout or Audition.

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; 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. Tryout or Audition.

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. Tryout or Audition.

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. Tryout or Audition.

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**

*Limitation on Enrollment:* This course is not open to students with previous credit for Speech 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 nonverbal 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 as well as those interested in further development of effective interpersonal skills in work, volunteer, and personal environments. (FT) AA/AS; CSU; UC; C-ID COMM 130.

### 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 communication studies majors and anyone interested in argumentation and debate. (FT) AA/AS; CSU; UC; C-ID COMM 120.

### 170 Small Group Communication

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* 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; C-ID COMM 140.

### 180 Intercultural Communication

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*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, including the

influence of cultures, languages, and social patterns on how members of groups relate among themselves and with members of different ethnic and cultural groups. Topics include 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 or other fields that require cross-cultural contact and/or awareness of cultural distinctions. (FT) AA/AS; CSU; UC; C-ID COMM 150.

### 201 Communication and Community

**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Communication Studies 103 with a grade of "C" or better, or equivalent.

This course is an overview of the academic discipline of Communication Studies, including its history, methods, processes, contexts, and fields of study. Other topics include basic models of communication, communication-related career fields, and health communication. This course is intended for Communication Studies majors or prospective majors. (FT) AA/AS; CSU; UC.

### 290 Independent Study

**3 - 9 hours other, 1-3 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Obtain Permission Number from Instructor. This course is not open to students with previous credit for Speech Communications 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. (FT) AA/AS; CSU.

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

**This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.**

## Computer Aided Design/Drafting

(See Architecture, page 328)

### Computer Business Technology (CBTE)

*Note: CBTE course numbers differ from the OFCE course numbers.*

#### 101 Basic Computer Keyboarding

**0.75 hours lecture, 0.75 hours lab, 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Office Information Systems 100, 101, 102, 164, Computer Business Technology 94, 102 or 103.

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. This course is intended for all students interested in improved keyboard skills for personal and/or business use. (FT) AA/AS; CSU.

#### 114 Introduction to Microsoft Windows

**0.75 hours lecture, 0.75 hours lab, 1 unit  
Grade Only**

*Advisory:* Computer Business Technology 94 or Computer Business Technology 101, each with a grade of "C" or better, or equivalent.

This course is an overview of the features of the Microsoft Windows operating system and environment. Students learn to use and customize the start menu; work with Windows accessory programs; manage storage drives; work with folders and files; create shortcuts; and customize the desktop. This course is designed for students intending to use Microsoft Windows for academic, professional and/or personal purposes. (FT) AA/AS; CSU.

#### 120 Beginning Microsoft Word

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* Computer Business Technology 94 or Computer Business Technology 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 120A or Computer Business Technology 120B.

This course is an introduction to document formatting using Microsoft Word. Students create fliers, letters, memos, reports and office documents. Topics include mail merge and table basics. This course is designed for students intending to use Microsoft Word for academic, professional and/or personal purposes. (FT) AA/AS; CSU.

#### 122 Intermediate Microsoft Word

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* Computer Business Technology 94 or Computer Business Technology 101 and Computer Business Technology 120, each with a grade of "C" or better, or equivalent.

This intermediate-level course introduces advanced features and text editing tools of Microsoft Word. Students create reference documents, online forms and newsletters. Topics include the use of macros and collaboration and integration tools. This course is designed for students intending to use Microsoft Word for academic, professional and/or personal purposes. (FT) AA/AS; CSU.

#### 127 Beginning Microsoft PowerPoint

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* Computer Business Technology 94 or 101 and 114, each 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 add and modify both text and graphics; insert and modify information graphics and multimedia; apply, modify, and create master pages; apply, modify, and create templates. Students integrate other Microsoft programs with PowerPoint. This course is designed for students and professionals acquiring or updating basic skills in creating and editing professional presentations. (FT) AA/AS; CSU.

**128 Intermediate Microsoft PowerPoint**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

*Advisory:* Computer Business Technology 94 or 101 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 126.

This course is a comprehensive hands-on study of the skills required to plan, develop, and deliver PowerPoint presentations on a computer and the Internet. Emphasis is placed on adding and modifying text, graphics, sound, video, and effects such as transitions and custom slide animations. Other topics include adding, modifying and creating templates; adding, importing, and formatting data for tables and charts; customizing presentations; adding interactivity features; and incorporating PowerPoint with other applications. This course is intended for all students and professionals who wish to acquire skills in digital presentations. (FT) AA/AS; CSU.

**140 Beginning Microsoft Excel**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Grade Only**

*Advisory:* Computer Business Technology 94 or Computer Business Technology 101 and Computer Business Technology 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 or Computer Business Technology 143.

This course is intended for students, office support personnel, and business owners who require a competency in performing tasks in Microsoft Excel. Students receive hands-on instruction on how to create, modify, and enhance workbooks, charts, and formulas. (FT) AA/AS; CSU.

**143 Intermediate Microsoft Excel**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

*Advisory:* Computer Business Technology 94 or 101 and 114, each with a grade of "C" or better, or equivalent.

This course is designed for students preparing for a career or job in which a competency in intermediate-to-advanced Excel functions is required to perform daily tasks. Students receive hands-on instruction on charts, PivotTables, PivotCharts, functions, formulas,

data validation, autofilters, what-if analyses, templates, macros, Visual Basic for applications, and integration of Excel with other programs. (FT) AA/AS; CSU.

**151 Microsoft Access: Basic**  
**0.75 hours lecture, 0.75 hours lab, 1 unit**  
**Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Computer Business Technology 101 and 114, 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 is designed for students and professionals acquiring or updating basic skills in creating and editing access databases. (FT) AA/AS; CSU.

**152 Beginning Microsoft Access**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Grade Only**

*Advisory:* Computer Business Technology 94 or 101 and 114, each with a grade of "C" or better, or equivalent.

This course introduces students to the fundamentals of Microsoft Access. Topics include creating, modifying, and sorting database tables; creating queries; creating and enhancing custom forms and reports; modifying the database structure; and importing and exporting data to other programs. This course is intended for students majoring in a computer business technology field, professionals acquiring or updating basic skills in creating and editing professional databases, or anyone interested in learning the fundamental functions of Access. (FT) AA/AS; CSU.

**153 Intermediate Microsoft Access**  
**2.5 hours lecture, 1.5 hours lab, 3 units**  
**Grade Only**

*Advisory:* English 47A or English 48, and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Computer Business

(FT) = A field trip may be required for this course.  
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 UC = University of California Applicable  
 Milestone formerly referred to as Skill Level

Technology 101 and 114, each with a grade of “C” or better, or equivalent.

This course is an intermediate level study of Microsoft Access and its use as 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; using field properties; understanding the use of Structured Query Language (SQL) in Access; creating and running macros for automating tasks; and planning and designing user interfaces. This course is designed for students and professionals acquiring or updating skills in creating and editing Access databases. (FT) AA/AS; CSU.

### **164 Introduction to Microsoft Outlook**

**0.75 hours lecture, 0.75 hours lab, 1 unit  
Grade Only**

*Advisory:* Computer Business Technology 94 or 101 and Computer Business Technology 114, each with a grade of “C” or better, or equivalent.

This course is an introduction to the features of Microsoft Outlook. Students learn how to manage messages, schedule appointments, organize and manage tasks and contact lists, and customize Outlook. This course is designed for students intending to use Microsoft Outlook for academic, professional and/or personal purposes.(FT) AA/AS; CSU.

### **167 Webpage Creation Using Microsoft Expression Web**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* Computer Business Technology 101, 102 or 103 and 114 and 161, each with a grade of “C” or better, or equivalent; English 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent or Milestone R50 and W50.

This course teaches students how to create websites using Microsoft Expression Web. Students use a hands-on approach to design, analyze, create, manage, and publish websites on the Internet for personal or business use. Topics include formatting text using Hypertext Markup Language (HTML), Extensible Hypertext Markup Language (XHTML), and Cascading Style Sheets (CSS). Other topics include images, hyperlinks, templates, tables, forms, and page layout and design. This course is intended for students majoring in Computer Business

Technology or others interested in web design. (FT) AA/AS; CSU.

### **180 Microsoft Office**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* Computer Business Technology 94 or Computer Business Technology 101 and Computer Business Technology 114, each with a grade of “C” or better, or equivalent.

This course is designed for students interested in an overview and basic working knowledge of Microsoft Office Professional suite for personal and/or professional purposes. Emphasis is placed on word processing, spreadsheet, database, and presentations, and the integration of data within and between the programs. (FT) AA/AS; CSU.

### **206 Electronic Records Management**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Computer Business Technology 205 and 151, 152, 155 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.

### **211 Office Administration**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* Computer Business Technology 94 or Computer Business Technology 101 and Computer Business Technology 120, each with a grade of “C” or better, or equivalent.

This course is designed to introduce and reinforce the practical use of current office administration procedures, duties, and human relations for office application. Topics also include office etiquette and dress, time management, communications systems and oral and computer presentations. This course is designed for Computer Business Technology majors as a capstone to be taken at the end of their coursework. (FT) AA/AS; CSU.

### **270 Work Experience**

**60–300 hours other, 1-4 units  
Grade Only**

*Advisory:* Computer Business Technology 101 with a grade of “C” or better, or equivalent.

This course is designed to extend occupational learning through employment and to compliment classroom instruction with on-the-job training. The goals and learning objectives will be designed by the student cooperatively with the employer and work experience instructor/coordinator. This work experience course of supervised employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the student's college major. The combined credit for all 270 discipline courses may not exceed 8 units per semester for a total of 16 units of cooperative work experience. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. This course is intended for students interested in the field of computer business technology. (FT) AA/AS; CSU.

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## Computer and Information Sciences (CISC)

### 71 Microcontroller Programming

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

This course introduces students to programming and interfacing microcontrollers to the world around them. Topics include programming a microcontroller to respond to inputs and to control various devices, such as light emitting diodes (LEDs), fans, servos, and relays. This course is designed for students who want to increase their understanding of microcontrollers and embedded programming. (FT) AA/AS.

### 106 Introduction to Computer Science and Programming

**2 hours lecture, 6 hours lab, 4 units  
Grade Only**

*Advisory:* Computer and Information Sciences 150 or Computer and Information Sciences 181, each with a grade of "C" or better, or equivalent.

This course is a hands-on study of the foundational principles of computer science. Emphasis is placed on applying fundamental computer science concepts and techniques to creative problem-solving and game development. Topics include conditional logic, looping, recursion, lists, arrays, trees, graphs, hash tables, algorithms, user-defined data types, lambdas, higher-order functions, complex data structures, input/output (I/O) streams, files, sockets, closures, lazy evaluation, macros, and domains. This course is designed for students majoring in computer information sciences or multimedia and for anyone interested in software development in general. 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. The course also explores careers in the computer science field. This course is intended for all students interested in computers and how to use them. (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

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

the course, but other versions of Linux are also appropriate. (FT) AA/AS; CSU.

**179 Python Programming**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Computer and Information Sciences 181 with a grade of "C" or better, or equivalent.

This is an introductory course in programming using the Python language and incorporating the fundamentals of object oriented programming in the Windows environment. Topics include the use and programming of the mouse, windows, forms, menus, dialog boxes, icons, buttons, text fields, files, graphics, and other components of the Windows environment. Students learn to analyze user needs and requirements; design the user interface; assign properties to objects in the user interface; code event procedures; test and debug completed programs and applications; and complete final user documentation. This course is intended for Computer and Information Sciences majors or anyone interested in the Python programming language. (FT) AA/AS; CSU; UC.

**181 Principles of Information Systems**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

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. (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. (FT) AA/AS; CSU; UC.

**186 Visual Basic Programming**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Computer and Information Sciences 181 with a grade of "C" or better, or equivalent.

This course is an introduction to programming using Visual Basic. It covers the fundamentals of event oriented programming in a Windows environment. Topics include the use and programming of a mouse, windows, forms, menus, dialog boxes, icons, buttons, text fields, files, graphics, and other components of a Windows environment in Visual Basic. This course is intended for students majoring in computer science or anyone interested in computer programming. (FT) AA/AS; CSU; UC.

**187 Data Structures in C++**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Computer and Information Sciences 192 with a grade of "C" or better, or equivalent.

This course introduces students to data structures and object-oriented software engineering. Emphasis is placed on basic data structures, including collections and linked structures (stacks, queues, lists, arrays, trees, and hashes) from the perspective of object-oriented implementation. Topics also include object-oriented analysis, design, and implementation in popular programming languages, such as C++, C#, and Java. This course is designed for students majoring in computer information systems and professionals in the field who want to update their skills. (FT) AA/AS; CSU; UC.

**190 Java Programming**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* Computer and Information Sciences 186 with a grade of "C" or better, or equivalent.

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 games. This course is intended for students majoring in computer and information sciences or anyone interested in the Java programming language. (FT) AA/AS; CSU; UC; C-ID COMP 122.

**191 Intermediate Java Programming**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Computer and Information Sciences 190 with a grade of "C" or better, or equivalent. This course is an intermediate level study of the Java programming language. Topics include single and multidimensional arrays; objects and classes; object-oriented programming; inheritance and polymorphism; exception handling and text input/output (I/O); abstract classes and interfaces; graphical user interfaces (GUIs); recursion; concurrency; and generic collections and data structures, such as linked lists, queues, and stacks. This course is intended for students majoring in computer and information sciences or anyone interested in learning more about the Java programming language. (FT) AA/AS; CSU; UC; C-ID COMP 132.

**192 C/C++ Programming**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* 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 Input/Output (I/O) classes is emphasized. Structured- and object-oriented programming techniques are presented and used to design and implement a variety of programming problems. This course is intended for students majoring in computer science or anyone interested in computer programming. (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 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.

**201 Advanced C++ Programming**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Computer and Information Sciences 192, and Computer and Information Sciences 205, 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 And Information Sciences 196. This course is an advanced hands-on study of the C++ language programming best practices currently used in the industry. Emphasis is placed on generic programming through the use of templates and object-oriented programming. Robust and reliable coding practices are promoted through the disciplined use of exception handling and unit testing. This course is designed for computer science students and anyone interested in advancing their C++ programming skills. (FT) AA/AS; CSU; UC.

**206 Mobile Game Development on iOS**  
**2 hours lecture, 6 hours lab, 4 units**  
**Grade Only**

*Advisory:* Computer and Information Sciences 106 and 192, each with a grade of "C" or better, or equivalent. This course is an introduction to the development of mobile games for iOS platforms. Emphasis is placed on the use of the Xcode and Interface Builder developer tools, the Objective-C or Swift programming language, and the Cocoa software framework to develop a game application that runs on an iOS platform, such as an iPhone and/or iPad. Topics include the major design patterns of the Cocoa framework. This course is designed for students majoring in computer and information science, software engineering or game programming and anyone interested in updating their programming skills. (FT) AA/AS; CSU.

**207 Mobile Game Development on Android**  
**2 hours lecture, 6 hours lab, 4 units**  
**Grade Only**

*Advisory:* Computer and Information Sciences 106 and 190, each with a grade of "C" or better, or equivalent.

(FT) = A field trip may be required for this course.  
 AA/AS = Associate Degree Applicable  
 CSU = California State University Applicable  
 UC = University of California Applicable  
 Milestone formerly referred to as Skill Level

This course is an introduction to the development of mobile games for the Android platform. Emphasis is placed on the use of the Java programming language and support tools to develop a game application that runs on the Android platform. Topics include the major design patterns of the Android framework. This course is designed for students majoring in computer and information science, software engineering or game programming and anyone interested in updating their programming skills. (FT) AA/AS; CSU.

### **210 System Analysis and Design**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

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; design patterns; project management; user interface considerations; interactive and prototyping methodology; component construction; programming best practices; 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.

### **211 Computer Organization and Assembly Language**

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

This course is an introduction to the organization of modern digital computers and assembly language programming. Topics include language syntax; instruction set mnemonics; and segment, index, pointer, general purpose, and flag registers. A variety of memory addressing techniques are covered, as well as stack operations, particularly those associated with passing parameters to subroutine calls. Additional topics include machine architecture; memory addressing; input/output; interrupts; control structures; compiling; linking; and printer and disk interfaces. This course is intended

for students majoring in computer and information sciences. (FT) AA/AS; CSU; UC; C-ID COMP 142.

### **220 Fundamentals of Computer Game Programming**

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* Computer and Information Sciences 179, Computer and Information Sciences 187, Computer and Information Sciences 190, Computer and Information Sciences 192 or Computer and Information Sciences 193, each 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 player needs, and 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.

### **221 Intermediate Computer Game Programming**

**3 hours lecture, 3 hours lab, 4 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Computer and Information Sciences 220 with a grade of "C" or better, or equivalent.

This course covers the field of software game program development. Students work as a team to design and build a complex software game. Students learn more complex elements of game construction, the constituent technologies that facilitate their development, and collaborative software development and integration methodologies. This course is designed for students interested in furthering their knowledge in software game development. (FT) AA/AS; CSU.

### **246 Discrete Mathematics for Computer Science**

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Mathematics 245 and Computer and Information Sciences 190, each with a grade of "C" or better, or equivalent.

This course is a continuation of discrete mathematics to include concepts and techniques used in computer science and related disciplines. Topics include theory of graphs, trees, boolean algebra,



probability theory, and modeling computation. This course is intended for transfer students planning to major in computer science. (FT) AA/AS; CSU; UC; C-ID COMP 152.

## 270 Work Experience

**60–300 hours other, 1–4 units  
Grade Only**

*Limitation on Enrollment:* Obtain permission number-Work Exp. Coordinator.

This course provides on-the-job learning experiences for students employed in a job or internship related to an occupational major. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. One unit of credit may be earned for each 75 hours of paid employment or 60 hours of volunteer work. This course may be taken up to four times. However, the combined maximum credit for all Work Experience courses from all subject areas may not exceed 16 units. This course is intended for students majoring or interested in an occupational field of study. AA/AS; CSU.

## 290 Independent Study

**Hours by Arrangement, 1–3 units  
Grade Only**

*Limitation on Enrollment:* Must obtain a permission number 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. AA/AS; CSU.

## 401 Database Management and Design for Healthcare Professionals

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Advisory:* Computer and Information Sciences 181 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Must be admitted to the Health Information Management program.

This course discusses advanced topics in database management and design. The concepts covered in this course include programming language, current database structures utilized in healthcare, effective communication with end users and key stakeholders, identifying goals and requirements

in database projects, performing end user analysis, and creating data models for performance improvement. Students explore all aspects of the data lifecycle from capture to storage and utilization to destruction. This course is designed for health information management majors. (FT)

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Construction Management

(See Architecture, page 328)

## Consumer Studies (CONF)

## 110 Personal Financial Management

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

This course is a study of the theories and techniques for managing personal income. Emphasis is placed on financial goal setting, culminating in the development of a personal financial plan. Topics include practical methods for gaining maximum advantages from income through efficient spending, effective use of credit, savings, budgeting, insurance, and investment. Stock portfolios and retirement planning are also discussed. This course is designed for anyone interested in developing personal financial management skills. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised***

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

*Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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:* Completion of or concurrent enrollment in Hospitality 101, Culinary Arts/Culinary Management 105, and Culinary Arts/Culinary Management 110, 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 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. This course is required for all Culinary Arts/Culinary Management students and is to be taken as the first course prior to all laboratory culinary courses. It may be used for national American Culinary Federation (ACF) recertification. Students taking this class and passing with a “C” or better will be able to sit for the ServSafe national food safety and sanitation manager certification. ServSafe certification currently qualifies holder as qualified foodhandler in the county of San Diego. (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.

*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 and personal management 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 and Service 12 hours lab, 4 units Grade Only

*Prerequisite:* Culinary Arts/Culinary Management 101 with a grade of “C” or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Culinary Arts/Culinary Management 105 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.

## 120 Menu Analysis and 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, Culinary Arts/Culinary Management 105, and Culinary Arts/Culinary Management 110, each with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in Culinary Arts/Culinary Management 131 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 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. (FT) AA/AS; CSU.

## 131 Quantity Food Preparation Laboratory

**12 hours lab, 4 units  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 101, 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 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**

*Corequisite:* Completion of or concurrent enrollment in Culinary Arts/Culinary Management 105 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.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

## 201 Gourmet Food Preparation Laboratory

**9 hours lab, 3 units  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 101, Culinary Arts/Culinary Management 130, 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 canapes, 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 101, 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, canapes, 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 101, 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 Basic Baking and Pastry. Emphasis is on the safe handling of foods and the production of high quality, handcrafted desserts for retail and commercial bakeries. This course includes techniques in management of quantity preparation. Student will also be familiarized 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. Techniques of sugar cooking, chocolate production, frozen desserts, and artisan breads are also discussed. This course is designed for students interested in high quantity baking and pastry techniques in a commercial setting. (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.

**290 Independent Study****3–9 hours other, 1–3 units  
Grade Only**

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment. Individual projects and advanced study conducted during supervised laboratory periods. Credit is granted on the basis of one unit for three hours laboratory activity. This course is not open to students with previous credit for Food Service Operations 290. AA/AS; CSU.

**292 Culinary Practicum****6 hours lab, 2 units  
Grade Only**

*Prerequisite:* Culinary Arts/Culinary Management 110 with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment. This course is not open to students with previous credit for Food Service Occupations 291 or Culinary Arts/Culinary Management 291.

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.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 Exercise Science graduation requirement. See page 120 in the Academic Requirements section of this catalog.*

**110A Ballet I****0.5 hours lecture, 1.5 – 3 hours lab, 1 – 1.5 units  
Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 110. Ballet I is a course in fundamental ballet technique focusing on correct body alignment and placement through warm-up, alignment, barre and center exercises in preparation for ballet movements. Students analyze, discuss, and critique the intent, movement, performance and theatrical elements of ballet movements at a fundamental level. This course is designed for dance majors and all students interested in Ballet. (FT) AA/AS; CSU; UC.

**110B Ballet II****0.75 hours lecture, 2.25 hours lab, 1.5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 110A with a grade of “C” or better, or equivalent.

Ballet II is a course in beginning ballet technique focusing on correct body alignment and placement through repetition at warm-up, alignment, barre and center exercises in preparation for ballet movements. Students analyze ballet dance in comparison to another dance genre, regarding thematic content or intent, music, and theatrical elements. This course is designed for dance majors and all students interested in Ballet. (FT) AA/AS; CSU; UC.

**110C Ballet III****0.75 hours lecture, 2.25 hours lab, 1.5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 110B with a grade of “C” or better, or equivalent.

Ballet III is a course in intermediate ballet technique focusing on correct body alignment and placement through repetition at barre, en diagonale, and center work including movement initiation and weight change. Students analyze, discuss, and critique ballet in regards to the thematic content or intent, choreographic creativity and movement, dancer’s performance abilities, and theatrical elements. This course is designed for dance majors and all students interested in Ballet. (FT) AA/AS; CSU; UC.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**110D Ballet IV****0.75 hours lecture, 2.25 hours lab, 1.5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 110C with a grade of "C" or better, or equivalent.

Ballet IV is a course in Intermediate/Advanced ballet technique focusing on correct body alignment and placement through repetition at barre, en diagonale, and center work with an elevated level of various musical and movement textures, complex rhythms and emotional performance qualities. Students analyze, discuss, and critique ballet in regards to the thematic content or intent, choreographic creativity and movement, dancer's technical and performance abilities, choreographic structure, lighting design, music or sound design, mood conveyed and audience response. This course is designed for dance majors and all students interested in Ballet. (FT) AA/AS; CSU; UC.

**115A Tap I****0.5–0.75 hours lecture, 1.5–2.25 hours lab,  
1–1.5 units  
Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 115. This course is an introduction to Tap dance. Emphasis is placed on fundamental Tap dance technique, vocabulary, rhythms studies and improvisations. This course is designed for dance and theater majors and all students interested in Tap dance. 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.

**115B Tap Dance II****0.5–0.75 hours lecture, 1.5–2.25 hours lab,  
1–1.5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 115A with a grade of "C" or better, or equivalent.

This course is the second in a series of Tap dance courses. Emphasis is placed on intermediate Tap dance technique, vocabulary, rhythms studies and improvisations. This course is designed for dance and theater majors and all students interested in Tap dance. 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.

**115C Tap Dance III****0.5–0.75 hours lecture, 1.5–2.25 hours lab,  
1–1.5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 115B with a grade of "C" or better, or equivalent.

This course is the third in a series of Tap dance courses. Emphasis is placed on intermediate advanced Tap dance technique, vocabulary, rhythm studies and improvisations. This course is designed for dance and theater majors and all students interested in Tap dance. 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.

**115D Tap Dance IV****0.5–0.75 hours lecture, 1.5–2.25 hours lab,  
1–1.5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 115C with a grade of "C" or better, or equivalent.

This course is the fourth in a series of Tap dance courses. Emphasis is placed on advanced Tap dance technique, vocabulary, rhythms studies, improvisations and styles. This course is designed for dance and theater majors and all students interested in Tap dance. 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.

**120A Hip Hop I****0.5–0.75 hours lecture, 1.5–2.25 hours lab,  
1–1.5 units  
Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 120.

This course is an introduction to Hip Hop dance. Emphasis is placed on fundamental Hip Hop technique rhythms and styles. This course is designed for dance majors and all students interested in Hip Hop dance. When this course is offered for three hours a week the additional time is utilized in the practice and perfection of combinations. (FT) AA/AS; CSU; UC.

**120B Hip Hop II****0.75 hours lecture, 2.25 hours lab, 1.5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 120A with a grade of "C" or better, or equivalent.

This course is the second in a series of Hip Hop dance courses. Emphasis is placed on beginning Hip Hop technique, rhythms and styles. This course is designed for dance majors and all students interested in Hip Hop dance. (FT) AA/AS; CSU; UC.

### 120C Hip Hop III

**0.75 hours lecture, 2.25 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 120B with a grade of "C" or better, or equivalent.

This is the third in a series of Hip Hop dance courses. Emphasis is placed on intermediate Hip Hop dance technique, rhythms, styles and choreography. This course is designed for dance majors and all students interested in Hip Hop dance. (FT) AA/AS; CSU; UC.

### 120D Hip Hop IV

**0.75 hours lecture, 2.25 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 120C with a grade of "C" or better, or equivalent.

This course is the fourth in a series of Hip Hop dance courses. Emphasis is placed on advanced Hip Hop dance technique, rhythms, styles and choreography. This course is designed for dance majors and all students interested in Hip Hop dance. (FT) AA/AS; CSU; UC.

### 125A Latin American Dance I

**0.5 hours lecture, 1.5 – 3 hours lab, 1–1.5 units**  
**Letter Grade or Pass/No Pass Option**

Latin American Dance I is a beginning level survey course in a variety of established and emerging partnered dances of Latin American origin with an emphasis on Salsa dance and introductory techniques, styles, rhythms, leading or following skills, movement patterns and history of selected Latin dances. This course is designed for students who wish to explore dances from other cultures and partnered dance. (FT) AA/AS; CSU; UC.

### 125B Latin American Dance II

**0.5 hours lecture, 1.5 – 3 hours lab, 1–1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 125A with a grade of "C" or better, or equivalent.

Latin American Dance II is an advanced beginning to intermediate survey course in a variety of established and emerging partnered dances of Latin American origin with an emphasis on Salsa dance, including leading and following, intermediate Salsa styling, technique, variations, and history.

When this course is offered for three hours a week, additional time is utilized in practice and perfection of movement variations and styling. This course is designed for students who wish to explore dance movements from other cultures and partnered dance. AA/AS; CSU; UC.

### 126A Mid-Eastern Dance I

**2–3 hours lab, 0.5 – 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 126.

This is an introductory course in social and stage dances from the region designated as the Near and Middle East. Emphasis is placed on introductory techniques, styles, rhythms and history of American staged Mid-Eastern dance forms. When this course is offered for three hours a week, the additional time is utilized in practice and perfection of rhythmical isolations and basic locomotor patterns. This course is designed for students who wish to explore dance movements from other cultures. (FT) AA/AS; CSU; UC.

### 126B Mid-Eastern Dance II

**2–3 hours lab, 0.5 – 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 126A with a grade of "C" or better, or equivalent.

This is the second course in social and stage dances from the region designated as the Near and Middle East. Emphasis is placed on beginning level techniques, styles, rhythms, cymbals and floor work of American staged Mid-Eastern dance forms. When this course is offered for three hours a week the additional time is utilized in practice and perfection of beginning level technique. This course is designed for students who wish to explore dance movements from other cultures. (FT) AA/AS; CSU; UC.

### 126C Belly Dance III

**1.5–3 hours lab, 0.5 – 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 126B with a grade of "C" or better, or equivalent.

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

Belly Dance III is an intermediate 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. When this course is offered for three hours a week the additional time is utilized in practice and perfection of intermediate level skills. This course is designed for students who wish to explore dance movements from other cultures. (FT) AA/AS; CSU; UC.

### 126D Belly Dance IV

**1.5–3 hours lab, 0.5 – 1 unit**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 126C with a grade of “C” or better, or equivalent.

Belly Dance IV is an advanced course in a variety of established and emerging belly dance forms. Emphasis is placed on advanced techniques, styles, rhythms, use of various props and performance dynamics of American staged belly dance. 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; UC.

### 127 Movement for Wellness

**1.5 hours lecture, 1.5 hours lab, 2 units**

**Letter Grade or Pass/No Pass Option**

This course builds on basic concepts of anatomy, physiology, and kinesiology to introduce traditional and non-traditional approaches to movement and injury prevention. Emphasis is placed on the following modalities: Yoga, Pilates, breath support (Tai Chi and Qi Gong), foam roller and theraband. Students are also introduced to Feldenkrais, Alexander Technique, and Bartenieff fundamentals. Student skills and proficiencies are enhanced by supervised repetition of various body modalities techniques, alignment and core stabilization, and body connections. This course is intended for Dance majors and all students interested in wellness through movement. (FT) AA/AS; CSU.

### 130A Dance Repertoire

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Dance 110A 135A or 140A, each with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 130.

This course is an introduction to the choreography of renowned choreographers. Students learn and perform selected choreography in ballet, modern, jazz, tap and musical theater. This course is intended for dance majors and all students interested in dance repertoire. (FT) AA/AS; CSU; UC.

### 135A Jazz Dance I

**0.5 hours lecture, 1.5 – 3 hours lab, 1 – 1.5 units**

**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 135.

This course is an introduction to jazz dance.

Emphasis is placed on fundamental jazz dance technique, vocabulary, and performance concepts. This course is designed for dance majors and all students interested in jazz dance. (FT) AA/AS; CSU; UC.

### 135B Jazz Dance II

**0.75 hours lecture, 2.25 hours lab, 1.5 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 135A with a grade of “C” or better, or equivalent.

This course is the second in a series of Jazz dance courses. Emphasis is placed on beginning Jazz dance technique, turns, rhythms and styles. This course is designed for dance majors and all students interested in Jazz dance. (FT) AA/AS; CSU; UC.

### 135C Jazz Dance III

**0.75 hours lecture, 2.25 hours lab, 1.5 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 135B with a grade of “C” or better, or equivalent.

This course is the third in a series of Jazz dance courses. Emphasis is placed on intermediate Jazz dance technique, turns, rhythms and styles. This course is designed for dance majors and all students interested in Jazz dance. (FT) AA/AS; CSU; UC.

### 135D Jazz Dance IV

**0.75 hours lecture, 2.25 hours lab, 1.5 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 135C with a grade of “C” or better, or equivalent.

This course is the fourth in a series of Jazz dance courses. Emphasis is placed on advanced Jazz dance technique, turns, rhythms and styles. This course is designed for dance majors and all students interested in Jazz dance. (FT) AA/AS; CSU; UC.



**140A Modern Dance I**

**0.5 hours lecture, 1.5 – 3 hours lab, 1 – 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 140 or Physical Education 140.

This course is an introduction to modern dance. Emphasis is placed on fundamental modern dance vocabulary, concepts, and techniques. Students are introduced to basic elements of choreography and history of early modern dance contributors. This course is designed for dance majors and all students interested in modern dance. (FT) AA/AS; CSU; UC.

**140B Modern Dance II**

**0.75 hours lecture, 2.25 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 140A with a grade of “C” or better, or equivalent.

This course is the second in a series of Modern dance courses. Emphasis is placed on beginning dance vocabulary, concepts and techniques. Students manipulate elements of choreography and are introduced to basic anatomy. Topics include perspectives on Modern dance history and techniques with a focus on second generation dance artists and an introduction to African-American artists. This course is designed for dance majors and all students interested in Modern dance. (FT) AA/AS; CSU; UC.

**140C Modern Dance III**

**0.75 hours lecture, 2.25 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 140B with a grade of “C” or better, or equivalent.

This course is the third in a series of Modern dance courses. Emphasis is placed on intermediate dance vocabulary, concepts, techniques, and anatomy. Students manipulate elements of choreography and rhythmic studies in movement. Topics include perspectives on Modern dance history and techniques with a focus on third generation Modern dance artists and an introduction to post-modern concepts. This course is designed for dance majors and all students interested in Modern dance. (FT) AA/AS; CSU; UC.

**140D Modern Dance IV**

**0.75 hours lecture, 2.25 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 140C with a grade of “C” or better, or equivalent.

This course is the fourth in a series of Modern dance courses. Emphasis is placed on intermediate-advanced dance vocabulary, concepts, technique, and anatomy. Students manipulate and refine elements of choreography and rhythmic studies in movement. Topics include perspectives on Modern dance history and techniques with a focus on contemporary Modern dance artists. This course is designed for dance majors and all students interested in Modern dance. (FT) AA/AS; CSU; UC.

**145A Ballroom Dance I**

**0.5 - .75 hours lecture, 1.5 - 2.25 hours lab,**  
**1 – 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 145.

Ballroom 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 basic kinesthetic concepts of connection to partner with correct body placement and physical compression as it pertains to either leading or following. Dance analysis will include exploration of dance style, thematic content or intent, and theatrical elements. This course is designed for dance and drama majors, as well as students who wish to explore historical dance. (FT) AA/AS; CSU; UC.

**145B Ballroom Dance II**

**0.5 - .75 hours lecture, 1.5 - 2.25 hours lab,**  
**1 – 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 145A with a grade of “C” or better, or equivalent.

Ballroom Dance II is the second in a series of ballroom dance courses focusing on partner dance and steps. Emphasis is placed on frame, style, partnering technique and variations in a variety of ballroom genres at the beginning through intermediate level, including concepts of connection to partner with correct body placement and physical compression as it pertains both leading and following. Dance analysis will include exploration of dance style, thematic content or intent, music,

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**Milestone** formerly referred to as Skill Level

mood conveyed and theatrical elements. This course is designed for dance and drama majors, as well as students who wish to explore historical dance. (FT) AA/AS; CSU; UC.

### 150A Dance Making: Ballet

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Dance 253 and 110A, each with a grade of "C" or better, or equivalent or Dance 135A or 140A, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 150.

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. (FT) AA/AS; CSU; UC.

### 151A Dance Making: Jazz

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Dance 253 and 110A or Dance 135A or 140A, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 151.

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. (FT) AA/AS; CSU; UC.

### 152A Dance Making: Modern

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Dance 253 and 110A or Dance 135A or 140A, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 152.

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. (FT) AA/AS; CSU; UC.

### 153A Dance Making: Dance Theatre

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Dance 253 and 110A or Dance 135A or Dance 140A, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 153.

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. (FT) AA/AS; CSU; UC.

### 160A Pilates - Stretch and Conditioning

**0.5 – 0.75 hours lecture, 1.5 – 2.25 hours lab,  
1 – 1.5 units**

**Letter Grade or Pass/No Pass Option**

Pilates is a course in stretch and conditioning based on exercises and concepts developed by Joseph H. Pilates. This course includes beginning mat work exercises to improve strength and flexibility. This course is of interest to dancers, athletes and anyone seeking an understanding of Pilates exercises and concepts. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**160B Pilates– Alignment and Correctives**  
**0.5 – 0.75 hours lecture, 1.5 – 2.25 hours lab,**  
**1 – 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 160A with a grade of “C” or better, or equivalent.

Pilates is a course in alignment and correctives based on exercises and concepts developed by Joseph H. Pilates. This course includes intermediate mat exercises to improve body alignment, strength, flexibility, control, coordination, and breathing. This course is of interest to anyone seeking an understanding of Pilates exercises and concepts as well as dancers and athletes. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**177A Dance Improvisation**  
**0.5 hours lecture, 1.5 – 3 hours lab, 1 – 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 110A, Dance 135A, or Dance 140A, each with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 177.

This course is an introduction to improvisational dance. Emphasis is placed on space, time and energy as means for creating improvisational dance at the beginning level. This course is intended for all students interested in the use of improvisational movement in dance and non-dance settings. (FT) AA/AS; CSU; UC.

**177B Dance Improvisation II**  
**0.5 hours lecture, 1.5 – 3 hours lab, 1 – 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 177A with a grade of “C” or better, or equivalent.

This course is an exploration of improvisational dance at the intermediate level. Emphasis is placed on space, time, and energy as a means of creating improvisational dance in structured and unstructured settings. Students utilize and refine improvisational dance skills in the creation of improvisational dance compositions. This course is intended for dance majors and all students interested in the use of improvisational movement in dance and non-dance settings. (FT) AA/AS; CSU; UC.

**178A Advanced Commercial Dance I**  
**0.75 hours lecture, 2.25 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 135D with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 178. This course is a study and application of the ideas, styles and works of Commercial dance choreographers. Emphasis is placed on the techniques and choreographic methodologies of American dance masters Jack Cole, Hermes Pan, Eugene Loring and Matt Mattox. Instruction includes student performance of historical Commercial dance repertoire. This course is intended for students majoring in dance. (FT) AA/AS; CSU; UC.

**178B Advanced Commercial Dance II**  
**0.75 hours lecture, 2.25 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 135D with a grade of “C” or better, or equivalent.

This course is a study and application of the ideas, styles and works of Commercial dance choreographers on Broadway and in film. Emphasis is placed on the techniques and choreographic methodologies of American dance masters Bob Fosse, Jerome Robbins, Michael Kidd and Michael Bennett. Instruction includes student performance of historical Commercial dance repertoire. This course is intended for students majoring in dance. (FT) AA/AS; CSU; UC.

**179A Advanced Classical Dance I**  
**0.75 hours lecture, 2.25 hours lab, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 110D with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 179.

This class compares, discusses and analyzes the movement principles of the Royal and the French styles of classical dance. Advanced Classical dance focuses on movement design and artistic intent of the Royal and French methods. This course is designed for dance majors and all students interested in Advanced Classical dance. (FT) AA/AS; CSU; UC.

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**179B Advanced Classical Dance II****0.75 hours lecture, 2.25 hours lab, 1.5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 110D with a grade of "C" or better, or equivalent.

This class compares, discusses and analyzes the movement principles of the Cecchetti and the Russian styles of Classical dance. Advanced Classical focus on movement design, artistic intent, and intellectual property of the Cecchetti and Russian methods. This course is designed for dance majors and all students interested in Advanced Classical dance. (FT) AA/AS; CSU; UC.

**180A Advanced Contemporary Dance I****0.75 hours lecture, 2.25 hours lab, 1.5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dance 140D with a grade of "C" or better, or equivalent.

This course is a study and application of the ideas, styles, and significant works of influential Contemporary dance choreographers from the period 1900-1960. Emphasis is placed on the techniques and choreographic methodologies of Contemporary dance pioneers, such as Martha Graham, Doris Humphrey, Lester Horton, and Merce Cunningham. Student performances include reproduction of historical Contemporary dance repertoire as well as original choreography based on historical Contemporary dance choreography and techniques. This course is intended for students majoring in dance. (FT) AA/AS; CSU; UC.

**180B Advanced Contemporary Dance II****0.75 hours lecture, 2.25 hours lab, 1.5 units  
Grade Only**

*Advisory:* Dance 180A with a grade of "C" or better, or equivalent.

This course is a study and application of the ideas, styles, and significant works of one or more influential choreographers from the period 1960-Present. Emphasis is placed on the movement vocabularies and choreographic processes in practice in various geographic regions around the world, such as Contemporary Dance in Western Europe, Dance Theater in Germany, Gaga in Israel, and sensory practices in America. Instruction includes performance of Contemporary dance styles. This course is intended for students majoring in dance. (FT) AA/AS; CSU; UC.

**181 History of Dance****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 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 260.

This course is a study of the history of dance. Emphasis is placed on the cultural, social and political aspects of dance in historical perspective. Students are challenged to broaden their aesthetic perceptions as they analyze and compare the influence of diverse cultures on western dance forms. Topics include the language of dance, dance technique and choreography. This class is intended for all students interested in dance and the history of dance. (FT) AA/AS; CSU; UC.

**183 Music for Dance****2 hours lecture, 1 hours lab, 2 units  
Grade Only**

*Advisory:* Dance 253 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. This course explores the interrelationship of music and dance and provides students the opportunity to compose and perform rhythmic and movement projects. This course is of interest to anyone seeking an understanding of music and movement fundamentals as well as dance majors. This course is designed to fulfill 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:* Dance 110A, 120A, 135A, or 140A, each 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 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 is designed to fulfill lower division requirements for dance majors. (FT) AA/AS; CSU; UC.

**261A Dance Performance I****6 hours lab, 2 units  
Grade Only**

*Advisory:* Dance 110A, 115A, 135A or 140A, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 261.

Dance Performance I provides the opportunity for students to apply intermediate skills in ballet, jazz, tap, hip hop and modern dance in concerts and community performances. Emphasis is placed on student application of dance, staging, and performance techniques in faculty choreographed works for large ensembles. This course is designed for dance majors and students interested in dance performance. (FT) AA/AS; CSU; UC.

**261B Dance Performance II****6 hours lab, 2 units  
Grade Only**

*Advisory:* Dance 110A, 115A, 135A or 140A, each with a grade of "C" or better, or equivalent.

Dance Performance II provides the opportunity for students to apply intermediate skills in ballet, jazz, hip hop, tap, and modern dance in concerts and community performances. Emphasis is placed on student application of dance, staging, and performance techniques in student choreographed works for large ensembles. This course is designed for dance majors and students interested in choreography and dance performance. (FT) AA/AS; CSU; UC.

**261C Dance Performance III****6 hours lab, 2 units  
Grade Only**

*Advisory:* Dance 110B, 115B, 135B or 140B, each with a grade of "C" or better, or equivalent.

Dance Performance III provides the opportunity for students to apply advanced skills in ballet, jazz, tap, hip hop and modern dance in concerts and community performances. Emphasis is placed on student application of dance, staging, and performance techniques in faculty choreographed works for solos and small groups. This course is designed for dance majors and students interested in dance performance. (FT) AA/AS; CSU; UC.

**261D Dance Performance IV****6 hours lab, 2 units  
Grade Only**

*Advisory:* Dance 110C, 115C, 135C or 140C, each with a grade of "C" or better, or equivalent.

Dance Performance IV provides the opportunity for students to apply intermediate and advanced skills in ballet, jazz, hip hop, tap, and modern dance in concerts and community performances. Emphasis is placed on student application of dance, staging, and performance techniques in student choreographed works for solos and small groups. Students choreograph and produce all elements of performances in preparation to transfer to a university. This course is designed for dance majors and students interested in choreography and dance performance. (FT) AA/AS; CSU; UC.

**271A Stage Costuming for Dance****3–6 hours lab, 1–2 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dance 271.

This production oriented course introduces students to the techniques of costume design and organization for a full dance production. Emphasis is placed on costume design, modification, and craft techniques, as well as on the organizational structure required for costume production for a staged dance performance. This course is intended for dance majors and all students interested in costume production for the stage. (FT) AA/AS; CSU; UC.

**271B Makeup for Dance Productions****3–6 hours lab, 1–2 units  
Grade Only**

This production oriented course introduces students to the materials and techniques used in stage makeup design and application for a full dance production. Emphasis is placed on vocabulary pertinent to the use of dance makeup and participation in the makeup crew for a full dance department production. This course is intended for dance majors and all students interested in makeup for the stage. (FT) AA/AS; CSU; UC.

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### 271C Lighting Design for Dance Production

**3–6 hours lab, 1–2 units  
Grade Only**

This production oriented course introduces students to the principles and practice of stage lighting. Emphasis is placed on design and drafting of lighting plots and the operation of basic lighting and electrical stage equipment. Students participate in lighting design and execution for a full department dance production. This course is intended for dance majors and all students interested in lighting for the stage. (FT) AA/AS; CSU; UC.

### 271D Sound Design for Dance Production

**3–6 hours lab, 1–2 units  
Grade Only**

This production oriented course introduces students to the principles and practice of theater sound and its technical operation. Emphasis is placed on the basic aesthetic and technical aspects of sound design for the theater. Students participate in crew sound for a full department dance production. This course is intended for dance majors and all students interested sound for the stage. (FT) AA/AS; CSU; UC.

### Additional Dance Classes

(See Exercise Science, page 415)

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Dental Assisting – RDA, CDA (DENA)

### 50 Dental Communications

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent or Milestone R50 and W50.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dental Assisting 102.

This course is an introduction to the Dental Assisting Program. Emphasis is placed on the history of dentistry, current trends in the dental industry, educational requirements, and the responsibilities of each Dental Health Team. Students explore the dental field and its demands as they develop the verbal, non-verbal and written communication skills required to be effective members of a Dental Health Team. Topics include dental terminology, infection control basics, standards of patient care, methods of conflict resolution and an exploration of psychological issues related to dental patients, employers and co-workers. This course is for students who have been admitted to the dental assisting program. (FT) AA/AS.

### 54 Basic Dental Assisting

**2 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Dental Assisting 50 with a grade of “C” or better, or equivalent.

*Corequisite:* Dental Assisting 54.

*Corequisite:* Completion of or concurrent enrollment in Dental Assisting 56 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 Dental Assisting 122 or 124.

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.

### 54L Basic Dental Assisting Lab

**6 hours lab, 2 units  
Grade Only**

*Corequisite:* Dental Assisting 54.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Dental Assisting 122L or 124L.

This basic dental assisting laboratory course allows for the practical application of chairside dental assisting techniques in restorative dentistry. Emphasis is placed on the manipulation and delivery

of restorative materials, sterilization procedures, and the preparation of dental instruments and the treatment room. Topics also include the care and preventive maintenance of equipment used in restorative dentistry, team positioning, four- and six-handed dentistry, moisture control, placing and removing a dental dam, matrices, vital signs and overall patient handling. This course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS.

## 56 Basic Dental Science

**3.5 hours lecture, 3.5 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Dental Assisting 50 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program. Qualified applicants may also enroll in the course with a permission number from instructor. This course is not open to students with previous credit for Dental Assisting 105 or 106. This course is a basic study of Science in Dentistry for dental assisting students. Emphasis is placed on anatomy, physiology, tooth morphology, embryology and histology, head and neck anatomy, and landmarks of the face and oral cavity. Topics include microbiology in dentistry, disease transmission in dentistry, oral pathology, pharmacology, medical emergencies in the dental office and California Occupational Safety and Health Administration (CalOSHA) standards. This course requires students to participate in a field trip to obtain a Basic Life Support (BLS) for the Health Provider certification. This course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS.

## 58 Preventive Dental Care

**1.5 hours lecture, 1.5 units  
Grade Only**

*Prerequisite:* Dental Assisting 50 with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 58L.

*Corequisite:* Completion of or concurrent enrollment in Dental Assisting 56 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 Dental Assisting 104, 103, or Dental Assisting 53.

This course is a study of the principles and techniques for preventing tooth decay. Emphasis

is placed on nutrition, personal preventive oral hygiene, and education of the dental patient on issues related to preventive dental care. Students maintain a food log, analyze their nutritional and sweet intake and counsel one another on dietary choices. Students also practice applying fluoridation in conjunction with a caries detection device to aid against tooth decay. Topics also include the purpose of dental sealants and Caries Management By Risk Assessment (CAMBRA). This course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS.

## 58L Preventive Dental Care Lab

**1.5 hours lab, 0.5 units  
Grade Only**

*Corequisite:* Dental Assisting 58 and Dental Assisting 83A.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is not open to students with previous credit for Dental Assisting 104, 103L or Dental Assisting 53L.

This laboratory course is a practical application of preventive dental care, including an analysis of personal/patient nutrition and nutritional counseling. Emphasis is placed on a plaque control program using a variety of oral hygiene products and patient education strategies. Students perform fluoride treatments, use a variety of caries detection devices and perform caries risk assessments. This course is for students who have been admitted to the Dental Assisting Program.(FT) AA/AS.

## 60 Clinical Business Management

**1.5 hours lecture, 1.5 units  
Grade Only**

*Prerequisite:* Dental Assisting 54 with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 60L.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Dental Assisting 131 or 132.

This course presents a basic foundation for the administrative dental assistant in accounts receivable

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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 Registered Dental Assistant and cultivate skills necessary to remain employed are also covered in this course. This course is designed for students enrolled in the Dental Assisting Program. (FT) AA/AS.

**60L Clinical Business Management Lab**  
**3 hours lab, 1 unit**  
**Grade Only**

*Prerequisite:* Dental Assisting 54L with a grade of “C” or better, or equivalent.

*Corequisite:* Dental Assisting 60.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Dental Assisting 131 or 132L.

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. This course is designed for students enrolled in the Dental Assisting Program. (FT) AA/AS.

**62 Dental Specialties I**  
**2.5 hours lecture, 2.5 units**  
**Grade Only**

*Prerequisite:* Dental Assisting 117 and 54, each with a grade of “C” or better, or equivalent.

*Corequisite:* Dental Assisting 62L.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Dental Assisting 161 or 162.

This course presents the first phase of dental specialties: Prosthodontic Dentistry, Periodontics, Oral and Maxillofacial surgery and Pediatric dentistry. Topics include fixed and removable dental prosthesis, provisional coverage, basics of dental implants, teeth whitening, infection process of periodontal disease, and the types of dental instruments used in each specialty procedure. This course also covers the theory for the application of

pit and fissure sealants. This course is designed for students enrolled in the Dental Assisting program. (FT) AA/AS.

**62L Dental Specialties I Laboratory**  
**6 hours lab, 2 units**  
**Grade Only**

*Prerequisite:* Dental Assisting 54L, 83A, and 117L, each with a grade of “C” or better, or equivalent.

*Corequisite:* Dental Assisting 62.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Dental Assisting 161L or 162L.

This laboratory course presents the practical application of chairside assisting and laboratory techniques in the specialty areas of fixed and removable prosthodontics, dental implants, oral and maxillofacial surgery, periodontic surgery and pediatric dentistry. Laboratory practice includes developing skills in constructing provisional crowns, scanning and milling a fixed crown, bleaching trays, use and care of specialized instruments, and preparation of impression materials. Assisting skills are developed in a variety of surgical procedures and final impressions. This course provides certification in pit and fissure sealants. The following are taught to clinical proficiency: Preliminary impressions, bleaching trays, and dental sealants. This course is intended for the student enrolled in the Dental Assisting program. (FT) AA/AS.

**82 Dental Specialties II**  
**2.5 hours lecture, 2.5 units**  
**Grade Only**

*Prerequisite:* Dental Assisting 117, and 54, each with a grade of “C” or better, or equivalent.

*Corequisite:* Dental Assisting 82L.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Dental Assisting 181 or 182.

This course presents discussion and examination of Law and Ethics and the California Dental Practice Act as they apply to dental assistants. Topics include the qualifications and the examination outlines for the California Registered Dental Assistant (RDA) Licensure and National Certification. This course also includes mouth mirror inspection for the RDA, orthodontics and endodontic specialties. Theory and instruction for the California Certification course of Coronal Polishing is also be presented. This course



is designed for students enrolled in the Dental Assisting Program. (FT) AA/AS.

## 82L Dental Specialties II Lab

**6 hours lab, 2 units  
Grade Only**

*Prerequisite:* Dental Assisting 54L, 58L, and 117L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 82.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Dental Assisting 181L or 182L.

This course prepares the student to perform procedures of the chairside dental assistant in the specialty areas of Orthodontia and Endodontics. The preclinical level includes placement of liners, bases, custom provisional coverage, and temporary sedative restorations on a typodont. 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 polishing and infection control evaluations for certification. (FT) AA/AS.

## 83A Directed Clinical Practice

**4.5 hours other, 1.5 units  
Grade Only**

*Prerequisite:* Dental Assisting 50 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Dental Assisting 54L, 58L, and 117L, 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 Dental Assisting 185A, 186A or 86A.

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. This

course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS.

## 83B Directed Clinical Practice

**13.5 hours other, 4.5 units  
Grade Only**

*Prerequisite:* Dental Assisting 83A with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 139.

*Corequisite:* Completion of or concurrent enrollment in Dental Assisting 60L, 62L, and 82L, 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 Dental Assisting 185B, 185C, 185D, 186B or 86B.

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. 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 clinical hours of dental radiography and administrative assistant duties. Students may not be paid for DCP. This course is for students who are enrolled in the dental assisting program. (FT) AA/AS.

## 117 Dental Materials

**2.5 hours lecture, 2.5 units  
Grade Only**

*Prerequisite:* Dental Assisting 50 with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 117L.

*Corequisite:* Completion of or concurrent enrollment in Dental Assisting 56 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 Dental Assisting 116.

(FT) = A field trip may be required for this course.  
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This course is a study of the materials used in dentistry and the agencies responsible for dental materials standards. Emphasis is placed on the history of restorative dentistry and its related materials. Topics include restorative, preventive and cosmetic materials, prosthetics, the chemical and physical properties of each material, and proper manipulation techniques. This course covers safe materials handling practices with emphasis on potential hazards to patient, operator and/or the environment. This course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS; CSU.

### 117L Dental Materials - Lab

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Dental Assisting 117.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Dental Assisting 116L.

This course provides dental assisting students with the opportunity to manipulate a variety of dental materials commonly used in modern dentistry. Students practice proper safe handling, dispensing and manipulation techniques for each material presented. This course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS; CSU.

### 129 Dental Radiography I

**2.5 hours lecture, 2.5 units  
Grade Only**

*Prerequisite:* Dental Assisting 50 with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 129L.

*Corequisite:* Completion of or concurrent enrollment in Dental Assisting 56 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 Dental Assisting 127 or 128.

This is a lecture course that provides the dental assisting student with the history, ethics, infection control and principles of dental radiographic production. Various techniques for obtaining intra-oral radiographs and digital images are presented. The radiographic identification of anatomical landmarks, dental pathology and dental treatment is explored. An introduction to dental photography as well as the discussion of the management of

pediatric patients and patients with special needs in dental radiography is also presented. This course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS; CSU.

### 129L Dental Radiography Lab

**1.5 hours lab, 0.5 units  
Grade Only**

*Corequisite:* Dental Assisting 129.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is not open to students with previous credit for Dental Assisting 125, 127L or 128L.

This is a laboratory course in which the dental assisting student demonstrates radiation protective techniques, caring for dental x-ray equipment, exposing, processing, mounting, and evaluating dental radiographs using infection control techniques. Exposures are accomplished using dental film and digital imaging on manikins (DXTTR) in preparation for exposures on human patients. The student identifies anatomical landmarks and basic caries as well as periodontal disease processes on intra-oral and extra-oral radiographs with beginning level competence. The student obtains a set of full mouth radiographs on a human patient. This course is for students who have been admitted to the Dental Assisting Program. (FT) AA/AS; CSU.

### 139 Dental Radiography II

**1.5 hours lab, 0.5 units  
Grade Only**

*Prerequisite:* Dental Assisting 129L with a grade of "C" or better, or equivalent.

*Corequisite:* Dental Assisting 83B.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Dental Assisting 136.

This course is the clinical level of dental x-rays and covers the techniques and skills required for obtaining full mouth series of dental radiographs and digital images of diagnostic quality, including Panoramic and Cephalometric images. The use of various radiographic positioning devices is included. Students obtain extra-oral and intra-oral dental photographs. In addition students complete the NOMAD x-ray unit training using a pediatric dental manikin. 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. This course is designed for students enrolled in the Dental Assisting Program. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 Exercise Science, page 415)

## All Students with Disabilities

### 21 Accessible Computing Lab

**1.5–6 hours lab, 0.5–2 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 teaches students how to use necessary adaptive hardware or software for computer access. Individualized training is provided for all instructional modules. This course is intended for students who would benefit from adaptive computer access. Not applicable to the Associate Degree.

## Students Testing for Learning Disabilities

### 40 Individual Assessment and Educational Planning

**0.5 hours lecture, 0.5 units  
Pass/No Pass**

***Limitation on Enrollment:*** This course is not open to students with previous credit for Disabled Students Programs and Services (DSPS) 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

**1.5–3 hours lab, 0.5 – 1 unit  
Pass/No Pass**

This course provides students with extra support for academic success in a college course. Emphasis is placed on the application of fundamental study skills strategies and computer technologies for learning and applying course material. Students are required to create a realistic study schedule for independent and group study sessions. This course is intended for all students interested in college level study skills strategies. Not applicable to the Associate Degree.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on***

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page 316. 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**

*Advisory:* Dramatic Arts 112 and Dramatic Arts 119, each 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) AA/AS.

### 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) AA/AS.

### 100A Fundamentals of Performance and Production I

**12 hours lab, 4 units  
Grade Only**

*Corequisite:* Dramatic Arts 104A.  
*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent, or Milestone R50 and W50.  
*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 a 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 104B.  
*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent, or Milestone R50 and W50.  
*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 a 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 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Dramatic Arts 130. This course introduces students to improvisational acting, treating acting as process-centered. The instructor leads the students using a variety of exercises to imagine, enact and reflect upon human experiences, emphasizing problem-solving skills in group improvisational work. This course is designed for introductory drama students and anyone who is interested in studying acting. (FT) AA/AS; CSU.

### 104A Theatre Company Performance I

**3–6 hours lab, 1–2 units  
Grade Only**

*Corequisite:* Dramatic Arts 100A. This course is an introduction to the performance process of a college theatre company production. Emphasis is placed the introduction of the artistic process including, work ethic, collaboration, and execution of assigned duties throughout all phases of the performance. This course is intended for students majoring in drama. Unit value for this course is determined by the given role. (FT) AA/AS; CSU; UC.

### 104B Theatre Company Performance II

**3–6 hours lab, 1–2 units  
Grade Only**

*Corequisite:* Dramatic Arts 100B.

This course is the second level of the performance process of a college theatre company production. Emphasis is placed on the development of the artistic process within the theatrical performance. This course is intended for students majoring in drama. Unit value for this course is determined by the given role. (FT) AA/AS; CSU; UC.

### 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.

This survey course introduces fundamental practices and creative processes in the dramatic arts. Through experimentation and examination, students gain greater insight and appreciation of the dramatic arts as an agent of change that is vital to the humanities. Aspects of theatre production and collaboration are covered through lecture, group discussion and participation. This course is designed for dramatic arts majors and all students interested in the dramatic arts. (FT) AA/AS; CSU; UC; C-ID THTR 111.

### 106 Acting for Radio/Voice-Over

**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 Milestone R50 and W50; Radio, Television and Film 105 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Radio, Television and Film 106, Radio and Television 106, Dramatic Arts 265 or Radio and Television 265.

This course is a practical study of the voice-over industry. Emphasis is placed on voice-over acting techniques for radio and television commercials, multimedia and other audio and video presentations. Students are expected to read aloud extensively as well as to record their voice for critique and self-evaluation. Topics also include an overview of the voice-over business, marketing, current technology, and professional work and studio etiquette. This course is intended for students majoring in drama or radio and television as well as for anyone interested in the voice-over business. This course is cross listed with Radio, Television and Film (RTVF) 106. (FT) AA/AS; CSU.

### 109 Theatre and Social Issues

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is a study of the role of theatre in society within its cultural, aesthetic, economic, and political manifestations. Emphasis is placed on increasing students' understanding of politics in theatrical representation and theatre as a tool for social change. Topics include the nature and function of theatrical representation, moving to historical and contemporary issues in American and World cultures. This class is designed for students majoring in theatre and those students interested in the Humanities and/or social and theoretical issues. (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.

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 its use in acting, directing, and design, as well as critical and social analysis. (FT) AA/AS; CSU; UC; C-ID THTR 114.

### 118 Intermediate Playwriting

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Dramatic Arts 108 with a grade of "C" or better, or equivalent.

This course examines themes, structures, and effective material that is written for the theatre at the intermediate level. Topics and exercises include the exploration of dialogue and monologue composition, exposition, autobiography, political and domestic social issues, writing for the opposite gender, and structure. Students are required to write

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scenes and plays that facilitate the development of a technique that is both individual and based on traditional dramaturgical ideas. Students present a folio of plays as well as critical analyses of plays and other works associated with theatre and playwriting. This course is designed for students majoring in theatre and those interested in creative writing and the humanities. (FT) AA/AS; CSU.

### 119 Acting for Film and Television

**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 Milestone R50 and W50; Dramatic Arts 132.

*Limitation on Enrollment:* This course is not open to students with previous credit for Radio and Television 119, Radio Television and Film 119, Dramatic Arts 265 or Radio and Television 265. 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, daytime dramas 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 is designed for theatre, television and film majors. This course is cross listed with Radio, Television and Film (RTVF) 119. (FT) AA/AS; CSU.

### 123 Beginning Stagecraft

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dramatic Arts 125. This course is a hands-on introduction to technical theatre production. Emphasis is placed on construction, painting, rigging, placement, and manipulation of stage scenery, lighting equipment, sound and properties, and the organization and management of stage activity and stagecraft technology. This course is designed for Theatre majors and students interested in backstage production. (FT) AA/AS; CSU; UC.

### 124 Makeup for the Stage

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dramatic Arts 122. 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. (FT) AA/AS; CSU; UC; C-ID THTR 175.

### 127 Sound For Theatre

**1 hour lecture, 3 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50.

This course is an introduction to the basic principles of audio production and the craft of sound design. Topics include technique, theory and procedures necessary to develop sound, music and effects integrated into theatre productions. This course is intended for the transfer student planning a major in Dramatic Arts, desiring competency in technical theatre or those interested in developing a deeper understanding of sound design. (FT) AA/AS; CSU; UC.

### 128 Stage Lighting Design

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50.

This course is an introduction to the principles and practice of stage and film lighting design. Emphasis is placed on the operation of basic lighting equipment, design, and digital drafting techniques. Technical preparation for other forms of production, such as outdoors, television and movies is included. This course is intended for transfer students planning a major in Dramatic Arts or desiring

competency in technical theater. (FT) AA/AS; CSU; UC.

### 129A Beginning Scene Painting

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Dramatic Arts 129. This course introduces students to basic techniques and materials used in the painting of scenery for the stage. Emphasis is placed on techniques in faux painting, murals, trompe l'oeil (trick the eye), and decorative motifs for theatre. Students experiment with color mixing, base, layout, ink, lay-in detail, and the use of brushes and tools for application in theatre settings. This course is designed for drama majors, art students, and anyone interested in painting on a large scale. (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 Milestone R50 and W50.

*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; C-ID THTR 151.

### 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 intended for students majoring in Dramatic Arts and anyone interested in honing their acting skill. (FT) AA/AS; CSU; UC; C-ID THTR 152.

### 134 Beginning Voice for Actors

**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 Milestone R50 and W50.

This course is a study of the foundations of vocal technique for actors. Emphasis is placed on breath, projection, resonator and diction. Students apply voice technique using monologues, modern and classical. This course is designed for drama majors and anyone interested in honing voice and articulation skills. (FT) AA/AS; CSU; UC.

### 136 History of Canonized Theatre—Ancient Greece to the Restoration

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is a survey of the history of Western theatre from ancient Greece through the Restoration in England. Emphasis is placed on the historical, political, cultural and religious contexts within which the canonized playwrights developed their plays. Topics include the development of the physical architecture of the theatre buildings and staging innovations. This course is intended for drama majors and students interested in the history of theatre. (FT) AA/AS; CSU; UC.

### 137 History of Canonized Western Theatre—Restoration to the Present

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is a survey of the history of canonized Western theatrical experiences from the English Restoration to the present. Emphasis is placed on the historical, political, cultural and religious contexts

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within which the playwrights developed their plays. Topics include an examination of the physical theatre and methods of staging drama. This course is intended for drama majors and students interested in the history of theatre. (FT) AA/AS; CSU; UC.

### **143 Beginning Costuming**

**2 hours lecture, 3 hours lab, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

This lecture and laboratory course emphasizes student involvement in the techniques and methodology of costume construction. Class material emphasizes practical experience in sewing, fabrics and their modification, costume craft techniques such as millinery, masks, footwear and accessories, and service on costume crews. Students study costume production procedures in regards to time, budgets, and labor. This course is designed for students majoring in performance and technical theatre and anyone with an interest in clothing and fashion. (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 Milestone R50 and W50.

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.

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 Milestone R50 and W50.

*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 intended for students majoring in Dramatic Arts and anyone interested in honing stage movement skills. (FT) AA/AS; CSU; UC.

### **200A Fundamentals of Performance and Production III**

**12 hours lab, 4 units**  
**Grade Only**

*Prerequisite:* Dramatic Arts 100A and 100B, with a grade of "C" or better, or equivalent.

*Corequisite:* Dramatic Arts 204A.

*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 a 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 Dramatic Arts 100B, each with a grade of “C” or better, or equivalent.

*Corequisite:* Dramatic Arts 204B.

*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 a college theatre company. This course is designed for second-year dramatic arts majors. (FT) AA/AS; CSU; UC.

## 204A Theatre Company Performance III

**3–6 hours lab, 1–2 units  
Grade Only**

*Corequisite:* Dramatic Arts 200A.

This course is the third level of the performance process of a college theatre company production. Emphasis is placed on the ability to model the artistic process within the practice of theatrical performance. This course is intended for students majoring in drama. Unit value for this course is determined by the given role. AA/AS; CSU; UC.

## 204B Theatre Company Performance IV

**3–6 hours lab, 1–2 units  
Grade Only**

*Corequisite:* Dramatic Arts 200B.

This course is the fourth level of the performance process of a college theatre company production. Emphasis is placed on the ability to lead the artistic process within the practice of theatrical performance. This course is intended for students majoring in drama. Unit value for this course is determined by the given role. 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.

This performance-based course 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 through a variety of acting genres. Scene work is selected in coordination 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 drama majors and all students who have had some acting experience. (FT) AA/AS; CSU.

## 244A Theatre Workshop I

**3–6 hours lab, 1–2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

This introductory class is designed for the rehearsal and performance of original, established, touring, or devised works. Aspects of theatre covered including acting, playwriting, and production support. This course is intended for introductory drama majors and all students interested in theatre arts. (FT) AA/AS; CSU.

## 244B Theatre Workshop II

**3–6 hours lab, 1–2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dramatic Arts 244A with a grade of “C” or better, or equivalent.

This class is designed for the intermediate level of rehearsal and performance of original, established, touring, or devised works. Various aspects of theatre are covered including acting, playwriting, directing, design, and production support. This course is intended for intermediate drama majors and all students interested in theatre arts. (FT) AA/AS; CSU.

## 244C Theatre Workshop III

**3–6 hours lab, 1–2 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Dramatic Arts 244B with a grade of “C” or better, or equivalent.

This class is designed for the intermediate-advanced level of rehearsal and performance of original, established, touring, or devised works. All aspects of theatre are covered including acting, directing, playwriting, design, and production support. This course is intended for intermediate-advanced drama majors and all students interested in theatre arts. (FT) AA/AS; CSU.

**(FT)** = A field trip may be required for this course.  
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**Milestone** formerly referred to as Skill Level

**244D Theatre Workshop IV****3–6 hours lab, 1–2 units****Letter Grade or Pass/No Pass Option**

*Advisory:* Dramatic Arts 244C with a grade of “C” or better, or equivalent.

This class is designed for the advanced level of rehearsal and performance of original, established, touring, or devised works. All aspects of theatre are covered including acting, directing, playwriting, design, and production support. This course is intended for advanced drama majors and all students interested in theatre arts. (FT) AA/AS; CSU.

**260A Spanish One Acts Production and Performance****3 hours lab, 1 unit  
Grade Only**

*Advisory:* Spanish 202 with a grade of “C” or better, or equivalent.

This course is an introduction to the production and performance process of The Spanish Language One Acts. Emphasis is placed the introduction of the artistic process including, work ethic, collaboration, and execution of assigned duties throughout all phases of production and performance. This course is intended for advanced Spanish language or drama students. (FT) AA/AS; CSU.

**260B Spanish One Acts Production and Performance II****3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Dramatic Arts 260A with a grade of “C” or better, or equivalent.

This course is an application of the collaborative skills required to produce The Spanish Language One Acts. Emphasis is placed on the coordination of the design and technical elements, stage management, and directing. This course is intended for advanced Spanish language or drama students. (FT) AA/AS; CSU.

**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 Milestone R50 and W50; 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. (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 a permission number from instructor for registration.

Advanced special work in dramatic arts: acting, design, lighting, film, business, makeup, costumes, direction, or play production. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 92 or Mathematics 96, each with a grade of “C” or better, or equivalent or Milestone M40 or M50 or Mathematics 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 47A or English 48 and English 49, each with Milestone R50 and W50.

This course is an introduction to aggregate (macro) 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 students

interested in macroeconomics. (FT) AA/AS; CSU; UC; C-ID ECON 202.

## 121 Principles of Microeconomics

3 hours lecture, 3 units  
Grade Only

*Prerequisite:* Mathematics 92 or Mathematics 96, each with a grade of "C" or better, or equivalent or Milestone M40 or M50 or Mathematics 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 47A or English 48 and English 49, each with Milestone R50 and W50.

This course is an introduction to economic analysis of specific decision-making sectors in the economy (micro analysis). These 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; C-ID ECON 201.

## 220 Economics of the Environment

3 hours lecture, 3 units  
Grade Only

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 46 with a grade of "C" or better, or equivalent or Milestone M30.

This course is a study of major environmental issues from an economics perspective. Emphasis is placed on resource management. Market and government responses are evaluated and analyzed. International response to major environmental issues are explored. This course is designed for students interested in majoring in economics, sustainability, environmental science, political science, international studies, or related majors. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Education (EDUC)

### 100 Tutor Training

0.5 hours lecture, 1.5 hours lab, 1 unit  
Pass/No Pass

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

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

0.5 hours lecture, 1.5 hours lab, 1 unit  
Pass/No Pass

*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.

*Advisory:* Concurrent enrollment in Education 203 with a grade of "C" or better, or equivalent.

This course is an introduction to the teaching profession. Emphasis is placed on the historical and philosophical foundations of the American education system and contemporary trends and issues related to teaching diverse learners in

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Kindergarten through grade 12 (K-12) classrooms. California's content standards and frameworks and teacher performance standards are also examined. This course is designed for students considering teaching as a profession. (FT) AA/AS; CSU; UC; C-ID EDUC 200 (EDUC 200, EDUC 203).

### 203 Field Experience for Prospective Teachers

**1 hour lecture, 1 unit  
Letter Grade or Pass/No Pass Option**

*Advisory:* Concurrent enrollment in Education 200 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Health and Safety. Student must meet safety and health clearance standards for public school observers.

This course provides students interested in teaching at the Kindergarten through grade 12 (K-12) level with a 45-hour supervised field observation experience in a public K-12 classroom. Emphasis is placed on introducing students to classroom environments, management techniques, and curriculum designed for diverse learners. This course is intended for students who are considering teaching at the K-12 level as a profession. (FT) AA/AS; CSU; UC; C-ID EDUC 200 (EDUC 200, EDUC 203).

### 211 Field Experience in Math and Science

**1 hour lecture, 1 unit  
Grade Only**

This course is guided classroom observations for prospective middle and high school mathematics and science teachers. Emphasis is placed on math and science education and strategies that promote professional development as well as teaching in culturally and linguistically diverse school settings. This course requires a minimum of 15 hours of classroom observation and is intended for community college students considering a career in teaching mathematics and science. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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. 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 Matlab computational engineering software. Topics include functions and arrays, data and file management, loops, control flow, and standard library packages and software. Numerical methods covered include matrix operations, Gauss Reduction, Newton Raphson, curve fitting, interpolation, numerical differentiation and numerical integration. Engineering application include finite element analysis, dynamics, computational fluid mechanics, data visualization and image analysis. 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 Milestone M50.

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 is as an aid to visualization and design, and computer-aided design (CAD). This course is intended for students majoring 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 previous credit for Engineering Technology 150.

This course is a study of applications of the principles of mechanics to rigid bodies in equilibrium. The course content emphasizes areas of friction, centroids, center of gravity, analysis of structures, moments of inertia and methods of virtual work. This course is intended for students majoring 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, each with a grade of "C" or better, or equivalent.

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 intended for students majoring 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 previous credit for Engineering Technology 250.

This course is a study of 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 intended for students majoring 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 the study of network analysis, basic network theorems, mesh and nodal analysis with independent and controlled sources. Emphasis is placed on steady state and transient responses of networks, complex frequency transformation, alternating current (AC), circuit analysis, power, reactive apparent power and power factor, and balanced three-phase electric systems. This course is intended for students majoring 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 (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## English Language Acquisition (ELAC)

***Formerly known as English for Speakers of Other Languages (ESOL)***

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

The English Language Acquisition (ELAC) program is committed to supporting non-native speakers of English in developing their academic English language skills to enable them to succeed in college courses. We offer a range of courses designed to engage students from low-intermediate to advanced levels of English. Core courses consist of integrated academic reading, writing, and grammar as well as academic listening and speaking. Specialized courses in areas such as pronunciation and focused grammar are also offered to support the individual needs of each student.

The ELAC program consists of four levels. Students are placed at a Milestone based on an assessment test.

The first level, L19, of the ELAC program is low-intermediate and consists of a nine-unit course, ELAC 15 (Introduction to English Literacy and Communication), that supports English language learning in academic reading, writing, grammar, as well as academic listening and speaking. Some students at the beginning levels of developing their academic English skills may find this course challenging, and may be better served through Continuing Education prior to taking ELAC 15. Students who desire progressing through the program at an accelerated pace may take a two-unit elective course, ELAC 16 (Accelerated English Language Acquisition), which supports students in preparing to challenge the second level course of academic reading, writing, and grammar, ELAC 25.

The second level, L20, of the ELAC program is intermediate and consists of two core courses, each of which are 6 units - ELAC 23 (Academic Listening and Speaking I) and ELAC 25 (Integrated Reading, Writing, and Grammar I). We recommend that students attending part-time take ELAC 23 prior to taking ELAC 25. Students who desire progressing through the program at an accelerated pace may take a two-unit elective course, ELAC 26 (Accelerated English Language Acquisition), which supports students in preparing to challenge the third level course of academic reading, writing, and grammar, ELAC 35.

The third level, L30, of the ELAC program is high-intermediate and consists of two core courses - ELAC 33 (Academic Listening and Speaking II), which is 3 units, and ELAC 35 (Integrated Reading, Writing, and Grammar II), which is 6 units. We recommend students take ELAC 33 prior to taking ELAC 35 if they prefer to take 6 units or less in a semester.

The fourth level, L40, of the ELAC program consists of a 6 unit advanced level course, ELAC 145 (Integrated Reading, Writing, and Grammar III). Upon successful completion of ELAC 145, students are prepared to take English courses (ENGL 47A or ENGL 101 & 31).

Students who place at L19, L20, or L30 must complete ELAC 145 and ELAC 33 prior to taking English courses. Students who place at L40 only need to complete ELAC 145.

### **5A English Language Grammar – Low-Intermediate/Intermediate**

**1–2 hours lecture, 1–2 units  
Pass/No Pass**

*Advisory:* Completion of or concurrent enrollment in English Language Acquisition 15 with a grade of “C” or better, or equivalent or Milestone L20 or English Language Acquisition 25 with a grade of “C” or better, or equivalent.

This course focuses on the study of English grammar for students whose first language is other than English. Emphasis is placed on clearly communicating one’s thoughts and ideas. Topics include analyzing basic grammar structures and applying knowledge of these structures in producing and editing one’s own texts. This course is intended for non-native speakers of English at the low-intermediate and intermediate levels. (FT) Not applicable to the Associate Degree.

### **5B English Language Grammar – High-Intermediate/Advanced**

**1–2 hours lecture, 1–2 units  
Pass/No Pass**

*Advisory:* Completion of or concurrent enrollment in English Language Acquisition 35 with a grade of “C” or better, or equivalent or English Language Acquisition 45 with a grade of “C” or better, or equivalent or Milestone R4 and W4.

This course focuses on the study of English grammar for students whose first language is other than English. Emphasis is placed on clearly communicating one’s thoughts and ideas. Topics include analyzing more advanced grammar structures and applying knowledge of these structures in producing and editing one’s own texts. This course is intended for non-native speakers of English at the high-intermediate and advanced levels. (FT) Not applicable to the Associate Degree.

## 7 English Pronunciation

1–2 hours lecture, 1–2 units  
Pass/No Pass

This course is designed to assist non-native English learners develop oral/aural language skills through the improvement of understanding spoken English and articulation of the language. Emphasis is placed on clear and effective oral/aural communication and pronunciation. Topics include oral/aural discrimination, stress, rhythm, and intonation. This course is intended for non-native speakers of English preparing for college-level coursework. (FT) Not applicable to the Associate Degree.

## 15 Introduction to English Literacy and Communication

9 hours lecture, 9 units  
Letter Grade or Pass/No Pass Option

*Advisory:* Milestone L19. Students are advised to take the ELAC placement test prior to enrollment and perform at L19.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 7, English 58, English for Speakers of Other Languages 19, or English for Speakers of Other Languages 19A. This course provides non-native English speakers with the skills to integrate reading, writing, grammar, and oral communication at the low-intermediate level. Emphasis is placed on comprehending, summarizing, and interpreting audio and written texts as well as expressing one's own thoughts and opinions. Topics include communicating in an academic setting, applying critical reading strategies, writing paragraphs and short compositions in a variety of genres, as well as analyzing and producing grammatical structures in context. This course is intended for non-native speakers of English preparing for college-level coursework. (FT) Not applicable to the Associate Degree.

## 16 Accelerated English Language Acquisition - Low-Intermediate Level

2 hours lecture, 2 units  
Pass/No Pass

*Corequisite:* English Language Acquisition 15 or Milestone L20.

*Note:* Concurrent enrollment in English Language Acquisition 15 is required. Assessment Skill Level L20 is not required.

This course is intended for students who are currently enrolled in English Language Acquisition 15 and who desire additional support or more advanced reading, writing, and grammar activities.

Emphasis is placed on deeper learning and understanding of English Language Acquisition 15 course content and producing more rigorous assignments. The course consists of personalized instruction and peer review to revise and expand upon the length and complexity of assignments in English Language Acquisition 15. (FT) Not applicable to the Associate Degree.

## 23 Academic Listening and Speaking I

6 hours lecture, 6 units  
Letter Grade or Pass/No Pass Option

*Prerequisite:* English Language Acquisition 15 with a grade of "C" or better, or equivalent or Milestone L20.

*Limitation on Enrollment:* This course is not open to students with previous credit for English for Speakers of Other Languages 22.

This course provides non-native English speakers with academic listening and speaking skills at the intermediate level. Emphasis is placed on developing accuracy and fluency in oral communication skills as well as understanding and responding to audio texts from a variety of genres. This course is intended for non-native speakers of English preparing for college-level coursework. (FT) Not applicable to the Associate Degree.

## 25 Integrated Reading, Writing, and Grammar I

6 hours lecture, 6 units  
Letter Grade or Pass/No Pass Option

*Prerequisite:* English Language Acquisition 15 with a grade of "C" or better, or equivalent or Milestone L20.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 8, English 60, or English for Speakers of Other Languages 20 and English for Speakers of Other Languages 21. This course provides non-native English speakers with the skills to integrate reading, writing, and grammar at the intermediate level. Emphasis is placed on applying critical reading strategies to a variety of genres, writing paragraph and multi-paragraph compositions based on assigned

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readings, and analyzing and producing grammatical structures in context. This course is intended for non-native speakers of English preparing for college-level coursework. (FT) Not applicable to the Associate Degree.

### **26 Accelerated English Language Acquisition - Intermediate Level**

**2 hours lecture, 2 units**  
**Pass/No Pass**

*Corequisite:* English Language Acquisition 25. This course is intended for students who are currently enrolled in English Language Acquisition 25 and who desire additional support or more advanced reading, writing, and grammar activities. Emphasis is placed on deeper learning and understanding of English Language Acquisition 25 course content. The course consists of personalized instruction and peer review to revise and expand upon the length and complexity of assignments in English Language Acquisition 25. (FT) Not applicable to the Associate Degree.

### **33 Academic Listening and Speaking II**

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English Language Acquisition 23 with a grade of "C" or better, or equivalent or Milestone L30.

*Limitation on Enrollment:* This course is not open to students with previous credit for English for Speakers of Other Languages 32.

This course provides non-native English speakers with academic listening and speaking skills at the high-intermediate to advanced levels. Emphasis is placed on linguistic and interpersonal skills necessary for participation in a variety of formal and informal tasks in the college environment as well as understanding and responding to audio texts from a variety of genres. This course is intended for non-native speakers of English preparing for college-level coursework. (FT) Not applicable to the Associate Degree.

### **35 Integrated Reading, Writing and Grammar II**

**6 hours lecture, 6 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English Language Acquisition 25 with a grade of "C" or better, or equivalent or Milestone L30.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 9, English 6,

or English for Speakers of Other Languages 30 and English for Speakers of Other Languages 31.

This course provides non-native English speakers with the skills to integrate reading, writing, and grammar at the high-intermediate level. Emphasis is placed on applying critical reading strategies to a variety of genres, writing multi-paragraph compositions (including introduction of the academic essay) based on assigned readings and other sources, and analyzing and producing grammatical structures in context. This course is intended for non-native speakers of English preparing for college-level coursework. (FT) Not applicable to the Associate Degree.

### **145 Integrated Reading, Writing, and Grammar III**

**6 hours lecture, 6 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English Language Acquisition 35 with a grade of "C" or better, or equivalent or Milestone L40.

*Corequisite:* Completion of or concurrent enrollment in English Language Acquisition 33 with a grade of "C" or better, or equivalent. Students who meet the prerequisite by completion of English Language Acquisition 35 must have completed English Language Acquisition 33 or be concurrently enrolled in English Language Acquisition 33.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 10, English 62, English for Speakers of Other Languages 40, English for Speakers of Other Languages 45, or English Language Acquisition 45.

This course provides non-native English speakers with the skills to integrate reading, writing, and grammar at the advanced level. Emphasis is placed on applying critical reading strategies to a variety of genres as well as analysis and synthesis of sources. The course also focuses on writing multi-paragraph compositions (including the academic essay), responding to and integrating sources, as well as analyzing and producing grammatical structures in context. This course is intended for non-native speakers of English preparing for college-level coursework. (FT) AA/AS; CSU; UC.



## 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.

#### 31 Academic Literacy

**2 hours lecture, 2 units  
Pass/No Pass**

*Prerequisite:* English Language Acquisition 145 with a grade of "C" or better, or equivalent, or Milestone R40 and W40; or

*Corequisite:* Students with Milestone R30 or W30 must enroll in English 101X or 105X (which pairs English 101 or English 105 with support course English 31).

This is a course for students who have assessed into basic skills English courses and desire to concurrently enroll in English 101: Reading and Composition or English 105: Composition and Literature. Academic Literacy creates success in English 101 or 105 by focusing on reading, writing, and critical thinking. Students learn to articulate arguments, create academic identities, and build and strengthen relationships with texts, others, and themselves. (FT) Not applicable to the Associate Degree.

#### 36 Basic Creative Writing Workshop

**1- 3 hours lecture, 1-3 units  
Letter Grade or Pass/No Pass Option**

This course is a beginning creative writing workshop. Topics include the creative process and the fundamentals of creative writing. Emphasis is placed on poetry, fiction, and/or creative nonfiction. This course is intended for students who are interested in the fundamentals of creative writing. (FT) Not applicable to the Associate Degree.

#### 42 College Reading and Study Skills I

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* This course is designed for native speakers of English. English language learners should enroll in the appropriate English Language Acquisition (ELAC) course as determined by the ELAC placement test.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 265B or English 47A.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 55. This course is designed for students who wish to improve their reading skills in order to succeed in college level courses. Students practice the reading process extensively and intensively to develop confidence and enjoyment in reading a variety of material, including fiction, nonfiction, and textbooks. Students also develop reading strategies to facilitate comprehension and critical thinking. Other topics include the development of writing, vocabulary, discussion, and study skills. (FT) Not applicable to the Associate Degree.

#### 43 English Review

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Completion of or concurrent enrollment English 42 with a grade of "C" or better, or equivalent or Milestone R40. This course is designed for native speakers of English. English language learners should enroll in the appropriate English Language Acquisition (ELAC) course as determined by the ELAC placement test.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 50.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 265B or English 47A with a C or better.

This course is designed for students who need review of and practice with writing unified paragraphs and purposeful basic compositions. Students develop a knowledge of the writing process and grammatical structures to compose clear and complete sentences, paragraphs, and basic compositions (which may include short essays). Students also read texts as the basis for writing and develop critical thinking skills necessary for success in college courses. (FT) Not applicable to the Associate Degree.

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

## 47A Integrated Reading, Writing, and Reasoning

**4 hours lecture, 4 units  
Grade Only**

*Advisory:* Milestone R30 and W30 or English Language Acquisition 45 or 145 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 42, 43, 48, 49, or English for Speakers of Other Languages 45 if taken within the past three years. This course is not open to students with previous credit for English 265B.

This course is designed to prepare students who require minimal preparation to produce successful college-level papers in all subject areas. Emphasis is placed on the presentation of a thematic perspective within which students develop arguments and strengthen critical thinking, reading, organizing, and writing skills. This course is intended for students who want to prepare themselves to read, write and analyze texts at the transfer level. (FT) Not applicable 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 42 or English Language Acquisition 45 or 145 each with a grade of "C" or better, or equivalent, or Milestone R40.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 265B, English 47A, English 56, or English for Speakers of Other Languages 45.

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 the Associate Degree.

## 49 Basic Composition

(Formerly English 51)

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 43 or English Language Acquisition 45 or 145, each with a grade of "C" or better, or equivalent, or Milestone W40.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 265B, English 47A, English 51, or English for Speakers of Other Languages 45.

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 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. (FT) Not applicable to the Associate Degree.

## English Courses

(Also see Humanities, page 479)

### 101 Reading and Composition

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 47A, or English 48 and 49, each with a grade of "C" or better or equivalent; or Milestones R40 and W40 or R50 and W50; or  
*Corequisite:* Students with Milestone R30 or W30 or above may enroll in ENGL 101X (which pairs English 101 with support course English 31).

This course is designed for transfer-level students or for those who want to develop competence in college level reading and composition. 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 6,000 graded words. Designated sections of this course may be taught from a specific cultural perspective. (FT) AA/AS; CSU; UC; C-ID ENGL 100.

### 105 Composition and Literature

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 47A, or English 48 and 49, each with a grade of "C" or better or equivalent; or Milestones R40 and W40 or R50 and W50; or  
*Corequisite:* Students with Milestone R30 or W30 or above may enroll in English 105X (which pairs English 105 with support course English 31).

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 intended for students majoring in English or 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 47A with a grade of "C" or better, or equivalent or Milestone R50 and W50 or English 48 with a grade of "C" or better, or equivalent or Milestone R50 and English 49 with a grade of "C" or better, or equivalent or Milestone W50.

*Advisory:* English 101 with a grade of "C" or better, or equivalent 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 intended for students majoring in English or 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 or English 105, each with a grade of "C" or better, or equivalent.

This intermediate-level college reading and writing course uses the principles of rhetoric to build research and critical thinking skills required for success at four-year institutions. Emphasis is placed on reading, evaluating and writing argumentative prose. Students locate, evaluate and integrate outside sources into their writing assignments, which total at least 8,000 words for the semester.

This course is intended for students majoring in English and all students interested in improving critical thinking and writing skills. (FT) AA/AS; CSU; UC; C-ID ENGL 105.

## 207 The Art of the Sentence

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

This is a course is a study of the stylistic aspects of the sentence through the application of linguistic and rhetorical principles. Emphasis is placed on 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 101 or English 105, each with a grade of "C" or better, or equivalent.

This course provides an inquiry into the basic nature of literature. 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. This course is designed for students with a general interest in literature as well as for those majoring in the field. (FT) AA/AS; CSU; UC; C-ID ENGL 120.

## 209 Literary Approaches to Film

**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 English 105 with a grade of "C" or better, or equivalent.

**(FT)** = A field trip may be required for this course.

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**Milestone** formerly referred to as Skill Level

This course is a study of film from a literary perspective. Emphasis is placed on reading and writing about film, film analysis, and cultural impact. Topics include film composition, genre, and literary criticism. This course is designed for English majors and all students interested in literature and/or 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 or English 105, each 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), the American Renaissance (1829–1860), and the beginnings of Realism (1860–1880). Students critically analyze and discuss diverse authors of these periods, addressing relevant historical, social, political, philosophical, aesthetic, cultural, and religious issues. This course is intended for English majors and anyone interested in American Literature. (FT) AA/AS; CSU; UC; C-ID ENGL 130.

## 211 American Literature II

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each 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). Students critically analyze and discuss diverse authors of these periods, addressing relevant historical, social, political, philosophical, aesthetic, cultural, and religious issues. This course is intended for English majors and anyone interested in American Literature. (FT) AA/AS; CSU; UC; C-ID ENGL 135.

## 215 English Literature I: 800 – 1799

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each 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 is intended for English majors and all students interested in literature. (FT) AA/AS; CSU; UC; C-ID ENGL 160.

## 216 English Literature II: 1800 – Present

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

This course offers a survey of British literature from the Romantic period to the 21st century (approximately 1800 to the present) including representative works from the pre-Romantic and Romantic periods; the Victorian and later Victorian period; the Modern period; the Postmodern period; the postcolonial era; and the contemporary era. Students read and discuss the major authors of these periods, addressing relevant social, political, cultural, and religious issues. Students also critically analyze, in essays and research papers, authors, specific works, and other topics as assigned. This course is intended for students majoring in English and those interested in English Literature. (FT) AA/AS; CSU; UC; C-ID ENGL 165.

## 220 Masterpieces of World Literature I: 1500 BCE – 1600 CE

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each 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 2150 BCE – 1600 CE), including the established classic literature of the Near East, Tibet, 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. This course is intended for English majors and anyone interested in World Literature. (FT) AA/AS; CSU; UC; C-ID ENGL 140.

## 221 Masterpieces of World Literature II: 1600 – Present

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each 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 is intended for English majors and anyone interested in World Literature. (FT) AA/AS; CSU; UC; C-ID ENGL 145.

## 230 Asian American Literature

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each with a grade of “C” or better, or equivalent.

This course is a survey of Asian American literature. The relationship between identity and the creative work of prominent Asian American writers is explored, as well as the ways in which Asian American writers have been influenced by various artistic, cultural, linguistic, and socio-political forces. Students are introduced to prominent Asian American texts and encouraged to analyze through writing and discussion the defining conversations and controversies in Asian American literary history. This course is intended for all students interested in Asian American Literature and Asian American Studies. (FT) AA/AS; CSU; UC.

## 237 Women in Literature

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, each with a grade of “C” or better, or equivalent.

This course is an introduction to images of women in literature and to women writers. Students read from a variety of genres including stories, poetry, novels, and essays, written by different authors from a range of social, cultural, and ethnic backgrounds. This course is intended for students majoring in English or anyone interested in literature. (FT) AA/AS; CSU; UC.

## 240 Shakespeare

**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 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.

## 245A Writing Creative Nonfiction

**3 hours lecture, 3 units**

**Grade Only**

*Prerequisite:* English 101 or English 105, each with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 245.

This is an intensive course in writing creative nonfiction. Emphasis is placed on the principles and methods of creative nonfiction 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 are introduced to the workshop format to further their work. This course is intended for students majoring in English and those preparing for writing-related careers in areas, such as publishing, journalism, communications, and education. (FT) AA/AS; CSU; UC.

## 245B Advanced Creative Nonfiction

**3 hours lecture, 3 units**

**Grade Only**

*Prerequisite:* English 245A with a grade of “C” or better, or equivalent.

This course is an intensive course advanced creative nonfiction. Emphasis is placed on advanced techniques in character, point of view, narrative, plot, language, style, and structure. The creative process includes meetings with the professor to set goals. Students use fictional techniques of character

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**Milestone** formerly referred to as Skill Level

development, plotting, setting, language, verb tense, and theme to compose nonfiction at an advanced level. This course is intended for students majoring in English and those preparing for writing-related careers in areas, such as publishing, journalism, communications, and education, and those desiring to develop a writing portfolio. (FT) AA/AS; CSU; UC.

**247A Writing Seminar - Poetry**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 247. This course is an introduction to writing poems. Emphasis is placed on the basic elements, techniques and invention strategies for writing poems, with some instruction in basic forms and evaluative techniques. This course is intended for students majoring in English and all students interested in writing poems. (FT) AA/AS; CSU; UC.

**247B Advanced Writing Seminar - Poetry**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 247A with a grade of "C" or better, or equivalent.

This course provides advanced instruction in writing poems. Emphasis is placed on sophisticated forms, techniques, and evaluation, as well as on preparing poems for submission and publication. This course is intended for students majoring in English and all students interested in writing poems. (FT) AA/AS; CSU; UC.

**249A Introduction to Creative Writing I**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 249. This course is an introduction to creative writing with a focus on fiction and poetry. Students use the basic elements of poetry and fiction writing to analyze the works of professional writers, to create original pieces, and to critique the work of their peers as well as their own. This course is intended for students majoring in English and all students interested in fiction and fiction writing. (FT) AA/AS; CSU; UC.

**249B Introduction to Creative Writing II**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 249A with a grade of "C" or better, or equivalent.

This course is an exploration and application of creative writing with a focus on fiction and poetry. Students use complex elements of poetry and fiction writing to analyze the works of professional writers, to create original pieces, and to critique the work of their peers as well as their own. This course is intended for students majoring in English and all students interested in fiction and fiction writing. (FT) AA/AS; CSU; UC.

**252A Fundamentals of Fiction Writing**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 253. This is an intensive course in fiction writing techniques at the beginning level. Students read and evaluate master works of fiction based on the basic elements of fiction writing introduced in class. Students write original fiction for submission to the class for discussion and integrate criticism offered by the instructor and peers through the editing process. This course is intended for students interested in a better understanding of literature and/or use of language as well as students interested in a writing-related career, such as publishing, journalism, communications, or education. (FT) AA/AS; CSU; UC.

**252B Intermediate Fiction Writing**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 252A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for English 254. This is an intensive course in fiction writing techniques at the intermediate level. Students read and evaluate master works of fiction that address personal, social, political and/cultural issues and integrate such elements into their original pieces of fiction. Students are expected to articulate, accept, and incorporate criticism through an increasingly sophisticated editorial process. This course is intended for students interested improving their creative writing skills and/or developing a portfolio

prior to transferring to a four-year institution. (FT)  
AA/AS; CSU; UC.

### 401 Advanced Writing for Healthcare Professionals

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* English 205 with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course provides an overview of writing for healthcare professionals. The primary concepts include effective workplace writing, the standards, conventions, and technologies of professional writing; communicating to a variety of audiences; the five stages of the writing process, critical reading of medical records and reports, and developing appropriate written responses to workplace challenges. Other topics will include research writing in APA format and grant writing. This course is designed for health information management majors. (FT)

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

### Environmental Design Studies

(See Architecture, page 328)

### Exercise Science (EXSC)

*Exercise Science classes are offered at the beginning, intermediate and advanced level*

#### Exercise Science Classes/Intercollegiate Sports – Disclaimer

Participation in all sports and exercise science 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 exercise science classes/intercollegiate sports.

Students are strongly advised to consult a physician prior to participating in any exercise science activity.

### Kayaking

#### 116B Kayaking

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Exercise Science 113A with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Health and Safety. Students will need to demonstrate the ability to swim at the first class meeting on the water. This is the second of two courses to provide instruction in water paddling. Emphasis for this course is kayaking. Topics include paddling equipment, etiquette, safety in a water environment and paddling techniques. This course is designed for those students that are interested in the Certificate of Achievement in Aquatics, kinesiology majors or the sport of kayaking. (FT) AA/AS; CSU.

### Stand Up Paddle Boarding

#### 116A Stand Up Paddle Boarding

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Exercise Science 113A with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Health and Safety. Students will need to demonstrate the ability to swim at the first class meeting on the water. This is the first of two courses to provide instruction in water paddling. Emphasis for this course is Stand Up Paddle Boarding. Topics include paddling equipment, etiquette, safety in a water environment and paddling techniques. This course is designed for those students that are interested in the Certificate of Achievement in Aquatics, kinesiology majors or

**(FT)** = A field trip may be required for this course.  
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**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

the sport of Stand Up Paddle Boarding. (FT) AA/AS; CSU.

## Surfing

### 110A Surfing I

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 113A with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Health and Safety. Students will need to demonstrate the ability to swim in an ocean environment prior to being allowed to participate in ocean activities.

This is the first of four courses in surfing. Topics include historical perspective of surfing, ocean safety, surfing equipment, surfing etiquette, and surfing fundamentals. This course is designed for students interested in the Aquatics Certificate of Achievement, kinesiology majors or those that want to learn about surfing. (FT) AA/AS; CSU.

### 110B Surfing II

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 110A and Exercise Science 113A, each with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Health and Safety. Students will need to demonstrate the ability to swim in an ocean environment prior to being allowed to participate in ocean activities.

This is the second of four courses in surfing. Topics include surfing fitness and conditioning, advanced wave selection, intermediate wave riding techniques and basic beach first aid. This course is designed for students interested in the Aquatics Certificate of Achievement, kinesiology majors or those that want to learn about surfing. (FT) AA/AS; CSU.

### 110C Surfing III

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 110B and Exercise Science 113A, each with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Health and Safety. Students will need to demonstrate the ability to swim in an ocean environment prior to being allowed to participate in ocean activities.

This is the third of four courses in surfing. Topics include advantages of surfing, advanced paddling techniques and advanced riding techniques. This

course will also cover environmental issues as they pertain to the ocean and surfing. This course is designed for students interested in the Aquatics Certificate of Achievement, kinesiology majors or those that want to learn about surfing. (FT) AA/AS; CSU.

### 110D Surfing IV

**1.5 – 3 hours lab, 0.5 – 1 units  
Grade Only**

*Advisory:* Exercise Science 110C and Exercise Science 113A, each with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Health and Safety. Students will need to demonstrate the ability to swim in an ocean environment prior to being allowed to participate in ocean activities.

This is the fourth of four courses in surfing. Topics include rescue techniques, surfboard repair, surf trip planning and advanced paddling and riding techniques. This course is designed for students interested in the Aquatics Certificate of Achievement, kinesiology majors or those that want to learn about surfing. (FT) AA/AS; CSU.

## Swimming

### 112 Adapted Swimming

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* A physician’s medical release form is required. This course is not open to students with previous credit for Physical Education 181A.

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 and aquatic conditioning, including water safety skills. Stroke analysis, conditioning and endurance is stressed in the progression of the class. When this course is offered for three hours a week, the additional time is utilized for enhanced musculo-skeletal and cardio-vascular fitness development. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 113A Swimming I

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 155 or Physical Education 155W.



This course is the first in a series of swimming courses. Emphasis is placed on fundamental swimming technique and water safety skills. This is an entry level course for novice swimmers. When this course is offered for three hours per week, the additional time is utilized for skill development. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 113B Swimming II

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 113A 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 155X.

This course is the second in a series of swimming courses. Emphasis is placed on the development of swimming strokes, open turns, entering the water, and aquatic emergency situations. This course is intended for beginning level swimmers with some aquatic experience. When this course is offered for three hours per week, the additional time is utilized for skill development. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 113C Swimming III

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 113A and Exercise Science 113B, each 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 155Y.

This course is the third in a series of swimming courses. Emphasis is placed on intermediate swim stroke development, open turns, head first water entry, and pool and open water emergency response. This course is intended for intermediate level swimmers. When this course is offered for three hours per week, the additional time is utilized for skill development. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 113D Swimming IV

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 113B and Exercise Science 113C, each 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 155Z.

This course is the fourth in a series of swimming courses. Emphasis is placed on advanced swimming techniques, turns, finishes, and racing starts, swim propulsion and drag theories, and aquatic survival and safety skills. This course is intended for advanced swimmers. When this course is offered for three hours per week, the additional time is utilized for skill development. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Aerobic

### 114A Aquatic Fitness I

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 106.

This course is an introduction to cardiovascular fitness through aquatic activities. Topics include aquatic fitness testing, timed swims, proper warm-up and cool-down, principles of swimming propulsion, and introductory safety. This course is intended for those starting at an entry level of cardiovascular fitness. When this course is offered for three hours per week, the additional time is utilized for skill development and increased cardiovascular conditioning. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 114B Aquatic Fitness II

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 114A with a grade of “C” or better, or equivalent.

This course is the second in a series of aquatic fitness courses. This course provides instruction and conditioning for various beginning level aquatic activities. Topics include beginning personal aquatic workout design and implementation, aquatic interval training, heart rate monitoring, using a pace

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clock, and safety concerns and techniques. This course is intended for those starting at a beginning level of cardiovascular fitness. When this course is offered for three hours per week, the additional time is utilized for skill development and increased cardiovascular conditioning. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **114C Aquatic Fitness III**

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 114B with a grade of “C” or better, or equivalent.

This course is the third in a series of aquatic fitness courses. This course provides instruction and conditioning for various intermediate level aquatic activities. Topics include analysis of personal health and lifestyle, intermediate level workout design, goal setting and motivation, body specific training for an aquatic environment, individual aquatic activities, and intermediate training types and safety concerns. This course is intended for those starting at an intermediate level of cardiovascular fitness. When this course is offered for three hours per week, the additional time is utilized for skill development and increased cardiovascular conditioning. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **114D Aquatic Fitness IV**

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 114C with a grade of “C” or better, or better or equivalent.

This course is the fourth in a series of aquatic fitness courses. This course provides instruction and conditioning for various advanced aquatic activities. Topics include components of aquatic fitness, advanced workout design, aquatic training for specific races, strokes and events, aquatic training with advanced equipment, advanced aquatic conditioning terminology and nutrition and hydration principles. This course is intended for those starting at an advanced level of cardiovascular fitness. When this course is offered for three hours per week, the additional time is utilized for skill development and increased cardiovascular conditioning. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **118 Lifeguard Training**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 139.

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. Adequate swimming skills are necessary. Students may petition to re-enroll in the course to renew certifications. This course is of interest to students who wish to earn the American Red Cross certifications necessary for employment as a lifeguard and those interested in the Aquatics Certificate of Achievement. (FT) AA/AS; CSU; UC.

### **119 Water Safety Instructor**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 164.

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. Adequate swimming skills are necessary at the Learn to Swim Level 4. Students may petition to re-enroll in the course to renew certifications. This course is of interest to students who wish to earn the American Red Cross certifications necessary for employment as a swimming instructor and those interested in the Aquatics Certificate of Achievement. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **122A Cardio Zumba I**

**3 hours lab, 1 unit  
Grade Only**

This course is an introduction to Cardio Zumba that incorporates several latin styles of dance including but not limited to merengue, salsa, cumbia and reggaeton. Emphasis is placed on fundamental Zumba technique, vocabulary and fitness concepts. This course is designed for all students interested in Zumba as a cardiovascular, movement-oriented

sport, as well as students majoring in kinesiology. (FT) AA/AS; CSU; UC.

### 122B Cardio Zumba II

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Exercise Science 122A with a grade of "C" or better, or equivalent.

This is the second course in Cardio Zumba. This level will ask students to increase the intensity of movement, including higher impact. Students will use additional arm and hip variations with new steps. Rhythm styles will expand to include Cha Cha, Mambo, Pop, Soca, Bollywood and Samba. This course is designed for students interested in Zumba as a cardiovascular, movement-oriented sport, as well as those majoring in kinesiology. (FT) AA/AS; CSU; UC.

### 124A Aerobic and Core Conditioning I

**2–3 hours lab, 0.5 – 1 unit  
Pass/No Pass**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 153 or Physical Education 153W.

This course provides students with introductory level knowledge and practice in attaining and maintaining aerobic and core conditioning fitness levels. Instruction will emphasize cardiovascular fitness as well as core fitness through individual and circuit training. This course is the first in a series of four aerobic and core conditioning courses. It is intended for students seeking to develop introductory physical fitness habits. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 124B Aerobic and Core Conditioning II

**2–3 hours lab, 0.5 – 1 unit  
Pass/No Pass**

*Advisory:* Exercise Science 124A 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 153X.

This course provides introductory level students with beginning knowledge and practice in attaining and maintaining aerobic and core conditioning fitness levels. Instruction will emphasize beginning cardiovascular fitness as well as core fitness through individual and circuit training. Other topics include a variety of core fitness tests, stability ball exercise routines, and beginning level aerobic and

core conditioning program design. This course is the second in a series of four aerobic and core conditioning courses. It is intended for students seeking to develop beginning physical fitness habits. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 124C Aerobic and Core Conditioning III

**2–3 hours lab, 0.5 – 1 unit  
Pass/No Pass**

*Advisory:* Exercise Science 124B 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 153Y.

This course provides beginning level students with intermediate knowledge and practice in attaining and maintaining aerobic and core conditioning fitness levels. Instruction will emphasize intermediate cardiovascular fitness as well as core fitness through individual and circuit training. Other topics include fitness level assessment and conditioning for the treadmill; continuous, interval, and fartlek aerobic conditioning elements; beginning plyometric exercises; coronal and oblique plane movements; and clinical evaluations such as blood pressure and blood lipid tests. This course is the third in a series of four aerobic and core conditioning courses. It is intended for students seeking to develop intermediate physical fitness habits. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 124D Aerobic and Core Conditioning IV

**2–3 hours lab, 0.5 – 1 unit  
Pass/No Pass**

*Advisory:* Exercise Science 124C 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 153Z.

This course provides intermediate students with advanced knowledge and practice in attaining and maintaining aerobic and core conditioning fitness levels. Instruction will emphasize advanced cardiovascular fitness as well as core fitness through

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individual and circuit training. Other topics include cardiovascular and core fitness assessment data comparison; advanced core fitness assessments including plyometric tests; cardiovascular interval and sprint training; advanced plyometric training involving lateral movement; dietary analysis; and identification and incorporation of dietary modifications. This course is the fourth in a series of four aerobic and core conditioning courses. It is intended for students seeking to develop advanced physical fitness habits. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 125A Aerobic Dance I

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 103 or Physical Education 103W.

This course is an introduction to all forms of Aerobic Dance and movement. Emphasis is placed on fundamental Aerobic Dance technique, vocabulary, and performance concepts. This course is the first in a series of four aerobic dance courses. It is designed for all students interested in Aerobics as a cardiovascular, movement-oriented sport. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 125B Aerobic Dance II

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 125A 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 103X.

This course provides introductory level students with knowledge and practice in more complicated beginning Aerobic Dance principles. Emphasis is placed on beginning Aerobic Dance technique, vocabulary, strength, and performance concepts. Other topics include additional dance vocabulary, expanded use of weights, and sports nutrition. This course is the second in a series of four aerobic dance courses. It is designed for all students interested in Aerobics as a cardiovascular, movement-oriented sport. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 125C Aerobic Dance III

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 125B 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 103Y.

This course provides beginning level students with knowledge and practice in intermediate level, complex forms of Aerobic Dance, its variations, and directional changes. Cardio Kickboxing technique and plyometric moves are added for a diverse, dynamic workout. Emphasis is placed on intermediate level Aerobic Dance technique, vocabulary, and performance concepts. This course is the third in a series of four aerobic dance courses. It is designed for all students interested in Aerobics as a cardiovascular, movement-oriented sport, and who have taken the beginning level version of this class. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 125D Aerobic Dance IV

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 125C 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 103Z.

This course provides intermediate level students with knowledge and practice in complex forms of advanced Aerobic Dance and its variations, such as Zumba and Cardio Kickboxing. Emphasis is placed on advanced levels of Aerobic Dance technique, vocabulary, and performance concepts. Other topics include advanced principles of body alignment such as movement combinations and jumps; advanced level plies such as sliding and jumping; and plyometrics. This course is the fourth in a series of four aerobic dance courses. It is designed for all students interested in Aerobics as a cardiovascular, movement-oriented sport, and who have taken the intermediate level version of this class. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**126A Cardio Conditioning I****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 123 or 123W.

This course provides instruction in the basic skills necessary to improve aerobic fitness, cardiovascular health, muscular endurance/strength, and static flexibility. Topics include fitness terminology, identifying individual fitness level and areas to improve, basic exercise programming, proper warm up/cool down and resting/exercise heart rate. This class is designed for students interested in a healthy lifestyle as well as Kinesiology majors. When the course is offered three hours per week, the additional time is utilized for increasingly strenuous cardiovascular activities. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**126B Cardio Conditioning II****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 126A 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 123X.

This course provides instruction in exercise programming through moderately intense activities including cross training, basic boxing, plyometrics, speed and agility, core stability, dynamic flexibility and nutrition. This course is designed to provide students the opportunity to continue the fundamental principles of physical fitness and their impact on life-long health and wellness. When the course is offered three hours per week, the additional time is utilized for increasingly strenuous cardiovascular activities. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**126C Cardio Conditioning III****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 126B 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 123Y.

This course is designed to provide students the opportunity to develop and implement a

personalized fitness plan to help them pursue their lifelong commitment to life-long health and wellness. Topics include goal setting, training zones, and body specific training principles through moderate/highly intense activities. This class is designed for students interested in a healthy lifestyle as well as Kinesiology majors. When the course is offered three hours per week, the additional time is utilized for increasingly strenuous cardiovascular activities. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**126D Cardio Conditioning IV****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 126C 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 123Z.

This course is the fourth in a series of Cardio Conditioning courses. Students develop, analyze and implement advanced group fitness plans. Topics include agility and jump training, running, sports cross training, advanced core training, stress management and nutrition. Data gathering and assessment methods are also covered. This class is designed for students interested in a healthy lifestyle as well as Kinesiology majors. When the course is offered three hours per week, the additional time is utilized for increasingly strenuous cardiovascular activities. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**129A Step Aerobics I–Fundamentals****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 104.

This is the first of four levels of classes relating to the fundamentals of step aerobics. Step aerobics is a rigorous exercise course designed to increase both the fitness levels of participating students and their understanding of what constitutes a safe and effective exercise program. Instruction

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includes a balanced exercise program of basic step aerobics, toning, stretching, and relaxation along with discussion of related health topics. This class is designed for those who want to increase cardiovascular fitness and who are interested in understanding the importance of the fitness aspect of their life. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**129B Step Aerobics II – Beginning Level**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 129A with a grade of “C” or better, or equivalent.

This is the second of four levels of classes relating to basic step aerobics. Step aerobics is a rigorous exercise course designed to increase both the fitness levels of participating students and their understanding of what constitutes a safe and effective exercise program. Instruction includes a balanced exercise program of basic step routines, toning, stretching, and relaxation along with discussion of related health topics. This class is designed for those who want to increase cardiovascular fitness by using stepping action and for those who are interested in creating their own basic fitness programs. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**130A Indoor Cycling I**  
**1.5 – 3 hours lab, 0.5 – 1 unit**  
**Grade Only**

This course is the first in a series of Indoor Cycling courses. Emphasis is placed on instruction in the basic fundamentals necessary to improve indoor cycling techniques and improve cardiovascular/aerobic fitness. Topics includes cycling terminology and ergonomics, overall fitness evaluation, various indoor cycling exercise regimens, and goal setting programs for individual health and fitness benefits. This class is designed for students interested in cardiovascular fitness improvement through indoor cycling (spinning). (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**130B Indoor Cycling II**  
**1.5 – 3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 130A with a grade of “C” or better, or equivalent.

This course is the second in a series of Indoor Cycling courses. Emphasis is placed on beginning to intermediate cycling techniques, heart rate calculations, fitness evaluations, and cardiovascular training and program design. Beginning level principles of physiology are explored including how to train to elicit a desired physiological response. This class is designed for students interested in aerobic fitness improvement through indoor cycling as well as Kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**130C Indoor Cycling III**  
**1.5 – 3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 130B with a grade of “C” or better, or equivalent.

This course is the third in a series of Indoor Cycling courses. Emphasis is based on intermediate to advanced cycling techniques, interval training, power cycling, and intermediate workload training. Intermediate level principles of physiology are explored including how to train within a workload range and why. This class is designed for students interested in aerobic fitness improvement through indoor cycling as well as Exercise Science or related majors. (FT) AA/AS; CSU; UC.

**130D Indoor Cycling IV**  
**1.5 – 3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 130C with a grade of “C” or better, or equivalent.

This is the fourth course in a series of Indoor Cycling courses. Emphasis is placed on advanced cycling techniques, advanced interval training, advanced power cycling and advanced workload training. Advanced principles of physiology are explored including how to train within a workload and why. This class is designed for students interested in aerobic fitness improvement through advanced indoor cycling as well as Exercise Science or related majors. (FT) AA/AS; CSU; UC.

## Anaerobic

### 134 Adapted Weight Training

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* A physician's medical release form is required. This course is not open to students with previous credit for Physical Education 182.

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. A physician's medical release is required. AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 135A Individual Conditioning I – Fundamentals

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 132 or Physical Education 132W.

This course provides individually programmed instruction in the fundamental skills and techniques of strength training and aerobic activity. The positive impact of physical education on health and wellness is explored and emphasized. 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. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 135B Individual Conditioning II – Beginning

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 135A 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 132X.

This course provides individually programmed instruction in the beginning level skills of the 5 components of fitness. Students will learn proper body mechanics for basic movement patterns

utilizing a variety of different training modalities. Beginning level principles of physiology will be explored including how to train to elicit a desired physiological response. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 135C Individual Conditioning III – Intermediate

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 135B 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 132Y.

This course provides individually programmed instruction in the intermediate principles of the 5 components of fitness. Students will learn basic anatomy and build upon the principles of physiology learned in previous levels of this course to create both individual workouts and a long term workout plan to meet individualized conditioning goals. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 135D Individual Conditioning IV – Advanced

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 135C 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 132Z.

This course provides individually programmed instruction in the advanced principles of the 5 components of fitness. Students will learn how to instruct others in proper movement patterns and body mechanics for several strength training and cardiovascular training modalities. Students will utilize their knowledge of the advanced principles of anatomy and physiology to create a workout plan for another individual, identifying modifications and variations of exercises depending on the unique needs of the subject they are designing a workout

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for. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**136A Off-Season Conditioning for Sport I**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 165 or 191.

This course is designed to enhance the physical and mental skills needed to participate in intercollegiate sports activities. Emphasis is placed on weight training, running, skill development games, and individual development for sport. When this course is offered for one unit the additional time is utilized in the practice and perfection of individual sport-specific skills. This course is intended for intercollegiate athletes. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**136B Off-Season Conditioning for Sport II**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 136A 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 165 or 191.

This course provides intercollegiate athletes with individually programmed coaching in the fundamental skills of sports-specific training and aerobic conditioning. Through progressive inquiry and practice, students demonstrate more advanced levels of athletic performance. When this course is offered for one unit the additional time is utilized in the development and implementation of sport-specific exercise programs. This course is intended for intercollegiate athletes. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**139A Weight Training I**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 166 or 166W.

This course is an introduction to progressive resistive training. Instruction includes proper methods of weight training, use of weight training machines, cardio exercise equipment, lifting of free weights and warm up/cool down. Instruction also includes

charting exercises, introduction to major muscle groups and the weight training exercises to improve strength and range of motion. This class is designed for students interested in a healthy lifestyle as well as exercise science majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**139B Weight Training II**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 139A 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 166X.

This course is the second in a series of four courses in progressive resistive weight training. Emphasis is placed on alternative training methods including circuit and interval training, hill climbing and fat burning. This course includes basic nutrition to help build muscle and/ or reduce body weight utilized in student development of a personal fitness program. This class is designed for students interested in a healthy lifestyle as well as exercise science majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**139C Weight Training III**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 139B 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 166Y.

This course is the third in a series of four courses in progressive resistive weight training. Emphasis is placed on the use of the weight training machines, cardio exercise equipment and Olympic lifts. This course covers alternate methods of resistive training including medicine balls, plyo balls, bosu balls, elastic cords and TRX belts. This class is designed for students interested in a healthy lifestyle as well as exercise science majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**139D Weight Training IV**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 139C 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 166Z.

This course is the fourth in a series of four courses in progressive resistive weight training. This course covers the proper use of weight lifting machines, cardio exercise equipment and alternate methods of resistive training and lifting of the free weights. This class is designed for students interested in a healthy lifestyle as well as exercise science majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 140A Boot Camp I

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

This course provides students with introductory level instruction in fundamental skills related to core strength, stability, and performance. Topics include physical readiness testing, proper exercise technique, and fundamental core and strength training using various training models derived from or inspired by military physical training techniques. This course is the first in a series of four boot camp physical training courses. It is intended for kinesiology majors and all students interested in comprehensive physical fitness training. All objectives are covered in this course whether offered for 0.5 or one unit. When this course is offered for one unit, the additional time is utilized for additional skills practice and refinement of exercise technique. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 140B Boot Camp II

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 140A with a grade of “C” or better, or equivalent.

This course provides introductory students with beginning level instruction in fundamental skills related to core and unilateral strength, stability, and performance. Topics include core stability, targeted functional training, and various training models and fitness plans derived from or inspired by military physical training techniques. This course is the second in a series of four boot camp physical training courses. It is intended for kinesiology majors and all students interested in comprehensive physical fitness training. All objectives are covered in this course whether offered for 0.5 or one unit. When this course is offered for one unit, the additional time is utilized for additional skills practice and

refinement of exercise technique. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 140C Boot Camp III

**2–3 hours lab, 0.5–1 unit  
Grade Only**

*Advisory:* Exercise Science 140B with a grade of “C” or better, or equivalent.

This course provides beginning students with intermediate level instruction in fundamental skills related to core and unilateral strength, stability, and performance. Topics include core stability, targeted functional training, and various training models and fitness plans derived from or inspired by military physical training techniques. This course is the third in a series of four boot camp physical training courses. It is intended for kinesiology majors and all students interested in comprehensive physical fitness training. All objectives are covered in this course whether offered for 0.5 or one unit. When this course is offered for one unit, the additional time is utilized for additional skills practice and refinement of exercise technique. (FT) AA/AS; CSU; UC.

### 140D Boot Camp IV

**2–3 hours lab, 0.5–1 unit  
Grade Only**

*Advisory:* Exercise Science 140C with a grade of “C” or better, or equivalent.

This course provides intermediate students with advanced level instruction in skills related to core and unilateral strength, stability, and performance. Topics include core stability, targeted functional training, and various training models and fitness plans derived from or inspired by military physical training techniques. This course is the fourth in a series of four boot camp physical training courses. It is intended for kinesiology majors and all students interested in comprehensive physical fitness training. All objectives are covered in this course whether offered for 0.5 or one unit. When this course is offered for one unit, the additional time is utilized for additional skills practice and refinement of exercise technique. (FT) AA/AS; CSU; UC.

**(FT)** = A field trip may be required for this course.  
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## General Health

### 141A Total Body Conditioning I

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

This course is the first in a series of total body conditioning courses. Emphasis is placed on developing proper training techniques necessary to improve muscular strength and endurance using compound and accessory exercises in rapid sequence. Topics will include identification of major movement patterns and modifications based on ability levels, basic strength exercises for muscle groups with emphasis on the core, and safety practices. When this course is offered for three hours per week, the additional time is utilized for skill development. This course is designed for kinesiology majors and all students interested in improving fitness. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 141B Total Body Conditioning II

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 141A with a grade of “C” or better, or equivalent.

This course is the second in a series of total body conditioning courses. Emphasis is placed on improving muscular strength and endurance and cardiorespiratory endurance using compound and accessory exercises and cardiorespiratory intervals in rapid sequence. Topics will include identification of muscle groups used in single and multi-joint movement exercises, intermediate strength exercises for muscle groups with emphasis on functional exercises, and use of appropriate modifications for varying ability levels. When this course is offered for three hours per week, the additional time is utilized for skill development. This course is designed for kinesiology majors and all students interested in improving fitness. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 141C Total Body Conditioning III

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 141B with a grade of “C” or better, or equivalent.

This course is the third in a series of total body conditioning courses. Emphasis is placed on improving muscular strength and endurance and cardiorespiratory endurance using compound and

accessory exercises and cardiorespiratory intervals in rapid sequence. Topics will include understanding of advanced exercise techniques, advanced strength and plyometric exercises for muscle groups with emphasis on functional exercises. When this course is offered for three hours per week, the additional time is utilized for skill development. This course is designed for kinesiology majors and all students interested in improving fitness. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 144A Fitness Walking Level I

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 154.

Fitness Walking is an introductory course that covers the principles of aerobic and cardiovascular health through various walking techniques. Comprehensive instruction in fitness principles, stress reduction, weight management and heart health are covered. This course is intended for Kinesiology majors and all students interested in a healthy lifestyle. When this course is offered for three hours a week the additional time is utilized for skill development and enhanced cardio-vascular fitness. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 145A Yoga I – Fundamentals of Yoga

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 168.

This is the first of four levels of classes relating to yoga. This course is an introduction to fundamental yoga practices and principles. Instruction includes learning the fundamentals of yoga postures. The students will also gain a fundamental understanding of the practices of relaxation techniques and breathing practices. This course is designed for students who want to increase health, longevity and who are interested in understanding the importance of the fitness aspect of their life. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**145B Yoga II – Beginning Yoga****2–3 hours lab, 0.5 – 1 unit****Grade Only**

*Advisory:* Exercise Science 145A with a grade of “C” or better, or equivalent.

This is the second of four levels of classes relating to yoga. This course is an introduction to fundamentals of basic yoga practices and principles. Instruction includes basic yoga postures, guided relaxations, and breathing practices, as well as some basic stress reduction techniques. This course is designed for students interested in utilizing basic yoga and stress reduction techniques to help increase their health and longevity. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**145C Yoga III – Intermediate****2–3 hours lab, 0.5 – 1 unit****Grade Only**

*Advisory:* Exercise Science 145B with a grade of “C” or better, or equivalent.

This is the third of four levels of classes relating to yoga. This course will cover intermediate yoga practices and principles including some intermediate inversions. Instruction includes intermediate yoga postures, guided relaxations, basic inversions, breathing practices, and basic partner yoga as well as stress reduction techniques and nutritional analysis. This course is designed for students interested in learning about both fitness and nutrition. The students will utilize intermediate yoga to help increase their health and longevity. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**145D Yoga IV – Advanced Level****2–3 hours lab, 0.5 – 1 unit****Grade Only**

*Advisory:* Exercise Science 145C with a grade of “C” or better, or equivalent.

This is the fourth of four levels of classes relating to yoga. This course will cover advanced yoga practices and principles. Instruction includes advanced yoga postures, guided relaxations, inversions, breathing practices, and partner yoga as well as stress reduction techniques and nutritional analysis. This course is designed for students interested in developing their own workout regime utilizing advanced yoga to help increase their health and longevity. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**Martial Arts****147A Kickboxing I – Fundamental****2–3 hours lab, 0.5 – 1 unit****Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 233.

This course is a study and practice of Muay Thai kickboxing at the fundamental level. Emphasis is placed on fundamental kickboxing terminology, safety, physical fitness, controlled sparring, and line combinations. This course is intended for all students interested in the fundamentals of kickboxing with respect to the Muay Thai discipline. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**147B Kickboxing II – Beginning****2–3 hours lab, 0.5 – 1 unit****Grade Only**

*Advisory:* Exercise Science 147A with a grade of “C” or better, or equivalent.

This course is a study and practice of Muay Thai kickboxing at the beginning level. Emphasis is placed on beginning kickboxing terminology, safety, physical fitness, controlled sparring, and line combinations. This course is intended for all students interested in beginning level kickboxing with respect to the Muay Thai discipline. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**147C Kickboxing III – Intermediate****2–3 hours lab, 0.5 – 1 unit****Grade Only**

*Advisory:* Exercise Science 147B with a grade of “C” or better, or equivalent.

This course is a study and practice of Muay Thai kickboxing at the intermediate level. Emphasis is placed on intermediate kickboxing terminology, safety, physical fitness, controlled sparring, and line combinations. This course is intended for all students interested in intermediate level kickboxing with respect to the Muay Thai discipline. (FT) AA/AS; CSU;

**(FT)** = A field trip may be required for this course.

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**CSU** = California State University Applicable

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UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**147D Kickboxing IV – Advanced**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 147C with a grade of “C” or better, or equivalent.

This course is a study and practice of Muay Thai kickboxing at the advanced level. Emphasis is placed on advanced kickboxing terminology, safety, physical fitness, controlled sparring, and line combinations. This course is intended for all students interested in advanced level kickboxing with respect to the Muay Thai discipline. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**148A Martial Arts I – Fundamental**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 232.

This course is a study and practice of martial arts at the fundamental level. Emphasis is placed on fundamental martial arts terminology, safety, self-defense, etiquette, punches, blocks, strikes, kicks, stances, pressure points, and Kata/forms. This course is intended for all students interested in the fundamentals of martial arts with respect to the International Okinawan Goju-Ryu Karate-Do Federation (IOGKF). (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**148B Martial Arts II – Beginning**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 148A with a grade of “C” or better, or equivalent.

This course is a study and practice of martial arts at the beginning level. Emphasis is placed on beginning level martial arts terminology, safety, self-defense, etiquette, punches, blocks, strikes, kicks, stances, pressure points, and Kata/forms. This course is intended for all students interested in the fundamentals of martial arts with respect to the International Okinawan Goju-Ryu Karate-Do Federation (IOGKF). (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**148C Martial Arts III – Intermediate**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 145D with a grade of “C” or better, or equivalent.

This course is a study and practice of martial arts at the intermediate level. Emphasis is placed on intermediate level martial arts terminology, safety, self-defense, etiquette, punches, blocks, strikes, kicks, stances, pressure points, and Kata/forms. This course is intended for all students interested in the fundamentals of martial arts with respect to the International Okinawan Goju-Ryu Karate-Do Federation (IOGKF). (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**148D Martial Arts IV – Advanced**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Advisory:* Exercise Science 148C with a grade of “C” or better, or equivalent.

This course is a study and practice of martial arts at the advanced level. Emphasis is placed on advanced level martial arts terminology, safety, self-defense, etiquette, punches, blocks, strikes, kicks, stances, pressure points, and Kata/forms. This course is intended for all students interested in the fundamentals of martial arts with respect to the International Okinawan Goju-Ryu Karate-Do Federation (IOGKF). (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Badminton

**154A Badminton I**  
**2–3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 108.

This course provides instruction and court experience in the skills, strategies and rules necessary to play badminton at the novice level. Instruction includes the basic strokes, vocabulary and sportsmanship. This course is intended for novice level badminton players. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**154B Badminton II****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 154A with a grade of “C” or better, or equivalent.

This course is the second of four courses in badminton. Emphasis is placed on beginning level skills, shots, serves, footwork and strategies. This course is intended for kinesiology majors and all students interested in incorporating the game of badminton into an active lifestyle. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**154C Badminton III****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 154B with a grade of “C” or better, or equivalent.

This course is the third of four courses in badminton. Emphasis is placed on intermediate level skills, shots, serves, footwork and strategies for singles and doubles play. This course is intended for kinesiology majors and all students interested in incorporating the game of badminton into an active lifestyle. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**154D Badminton IV****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 154C with a grade of “C” or better, or equivalent.

This course is the fourth of four courses in badminton. Emphasis is placed on advanced level skills and strategies for singles and doubles tournament play. This course is intended for kinesiology majors and all students interested in incorporating the game of badminton into an active lifestyle. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**Baseball****156A Baseball I****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 111.

This course is designed to introduce the student to the game of baseball at the college level. Emphasis is placed on fielding ground balls, base running,

outfield play, and the techniques and practice of bunting, including the sacrifice bunt, drag bunt, and push bunt. Topics also include the history of baseball, rules, terminology, safety procedures, values, and etiquette. This course is intended for novice level baseball players. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**156B Baseball II****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 156A with a grade of “C” or better, or equivalent.

This beginning level course in baseball is designed to continue the skill development in baseball and to introduce students to the concepts of wellness and a healthy lifestyle through baseball activities. Emphasis is placed on the batting stance and batters swing techniques, including balance, base, front side direction, contact position, and vision. Topics include ball flight, pitch selection, location recognition, count management, body weight transition, and contact point. Baseball fitness is included and encompasses cardio conditioning, plyometrics, and stretching as they pertain to the sport. This course is intended for intermediate level baseball players. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**156C Baseball III****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 156B with a grade of “C” or better, or equivalent.

This intermediate-advanced level course in baseball provides instruction and practice in specialty defense such as bunt coverages, cuts and relays, first and third situations, and pick-off plays. Students practice and analyze specialty defensive situations to improve overall defensive awareness on the baseball field and to become a more well-rounded defensive player. Topics include terminology, pre-pitch preparation, foot work, body position before and during game play, and the fundamentals of playing catch. Baseball fitness includes cardio conditioning,

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plyometrics, and stretching as they pertain to the sport. This course is intended for intermediate-advanced level baseball players. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 156D Baseball IV

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 156C with a grade of “C” or better, or equivalent.

This advanced level course in baseball is designed for students to apply both offensive and defensive baseball skills in competition. Emphasis is placed on instruction and practice in game situations through inner squad games arranged between teams made up of class members. The mental aspect of the game is explored and applied throughout the course. This course is intended for advanced baseball players. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Basketball

### 158A Basketball I

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 112.

This course introduces students to the game of basketball. Instruction includes basic individual offensive and defensive fundamental skills, history of the game, terminology, rules, etiquette, proper warm-up and cool down and safety. Emphasis is placed on games using less than full teams and half court situations. This course is designed for anyone who has an interest in playing basketball. When this course is offered for three hours per week, the additional time is utilized on individual development of technique and performance. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 158B Basketball II

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 158A with a grade of “C” or better, or equivalent.

This course provides students the opportunity to improve individual beginning skills and introduces individual offensive moves and team concepts. Topics include transition basketball, team offense

and defense as well as theories of basketball conditioning. Emphasis is placed on 5-5 play and full court situations and strategies of team play. This class is designed for those with a basic knowledge and ability to play basketball. When this course is offered for three hours per week, the additional time is utilized on individual development of technique and performance. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 158C Basketball III

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 158B with a grade of “C” or better, or equivalent.

This course provides students the opportunity to improve individual intermediate skills through self analysis of strengths and weaknesses and introduces full court pressure play. Students are expected to write programs to improve individual skills. Topics include full court zone and man pressure, full court offense and specialty plays. Emphasis is placed on skill work drills, 5-5 play and full court situations. This class is designed for those that have above an intermediate knowledge and skill level in basketball. When this course is offered for three hours per week, the additional time is utilized on individual analysis of technique and performance. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 158D Basketball IV

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 158C with a grade of “C” or better, or equivalent.

This course provides students the opportunity to develop technical skills necessary to coach the game of basketball and stresses the development of advanced skills and team play. Topics include analysis of team play, writing a practice plan, how to scout an opponent and evaluation of individual play. Emphasis is placed on skill work drills and full court tournament play. This class is designed for those that have an intermediate knowledge of basketball and possess an advanced skill level. When this course is offered for three hours per week, the additional time is utilized on individual analysis of technique and performance. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Diving

### 160A Springboard Diving I

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 119.

This course is an introduction to springboard diving with progressive skill development in performing dives from five different categories. Standardized skill progressions are used for level one dives. This course is intended for all students interested in springboard diving. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 160B Springboard Diving II

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 160A with a grade of "C" or better, or equivalent.

This course is the beginning level of springboard diving with progressive skill development in performing dives from five different categories. Standardized skill progressions are used for level two forward, backward, inward, reverse and twisting dives with a somersault. This course is intended for all students interested in springboard diving. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 160C Springboard Diving III

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 160B with a grade of "C" or better, or equivalent.

This course is the intermediate level of springboard diving with progressive skill development in performing dives from five different categories. Standardized skill progressions are used for intermediate level three forward, backward, inward, reverse and twisting dives with one and a half somersaults. This course is intended for all students interested in springboard diving. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 160D Springboard Diving IV

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 160C with a grade of "C" or better, or equivalent.

This course is the advanced level of springboard diving with progressive skill development in performing dives from five different categories. Standardized skill progressions are used for level four forward, backward, inward, reverse and twisting dives with two and a half to three and a half somersaults. This course is intended for all students interested in springboard diving. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Fencing

### 162A Fencing I

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 120.

This course provides instruction in the fundamental skills, strategies, rules and etiquette of fencing with French foil. Topics include on guard, advance, retreat, attacks, parries and bouting at the introductory level. Judging and directing of bouts are taught and implemented in the form of tournament matches. This course is intended for students interested in a lifetime sport, rich in tradition and gamesmanship. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 162B Fencing II

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 162A with a grade of "C" or better, or equivalent.

This course is the second level of Fencing emphasizing beginning techniques of fencing with French foil. Simple and compound attacks, secondary attacks, counter attacks, circular parries and bouting are stressed in this class. Judging and directing of bouts are taught and implemented in the form of tournament matches. This course is intended for students interested in a lifetime sport, rich in tradition and gamesmanship. (FT) AA/AS; CSU;

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### 162C Fencing III

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 162B with a grade of “C” or better, or equivalent.

This course presents the intermediate techniques of fencing with French foil. Techniques such as inverse retreats and attacks and beats and disengage, and rules are covered. Judging and directing of bouts are taught and implemented in the form of tournament matches. Fencing etiquette and proper technique are stressed. This course is intended for students interested in a lifetime sport, rich in tradition and gamesmanship. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 162D Fencing IV

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 162C with a grade of “C” or better, or equivalent.

This course provides advanced technical and tactical instruction with the epee fencing blade. Footwork, advanced skill techniques and epee tournaments are covered. Tactical strategies for foil vs. epee fencing are analyzed and implemented into daily practice. This course is intended for students interested in a lifetime sport, rich in tradition and gamesmanship. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Football

### 164A Football I

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 125.

This first level of football explores the fundamental skills and techniques for team play including blocking, tackling, passing, catching, running, and offensive and defensive positioning at the college introductory level. Team skills as well as game strategies are covered. This course is intended for all students interested in playing the game of football. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 164B Football II

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 164A with a grade of “C” or better, or equivalent.

This second level of football explores the beginning skills and techniques for team play emphasizing receiver, running back, linebacker, defensive back, defensive and offensive line drills. Team skills as well as game strategies are covered. This course is intended for all students interested in playing the game of football. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 164C Football III

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 164B with a grade of “C” or better, or equivalent.

This third level of football explores the intermediate skills and techniques for team play emphasizing making adjustments to multiple offensive and defensive schemes. Team skills as well as game strategies are covered. This course is intended for all students interested in playing the game of football. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 164D Football IV

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 164C with a grade of “C” or better, or equivalent.

This fourth level of football explores the advanced skills and techniques for team play emphasizing situational strategies and real time adjustments for offense and defense. Team skills as well as game strategies are covered. This course is intended for all students interested in playing the game of football. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Golf

### 166A Golf I

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 126.

This course provides golf instruction and practice. Emphasis is placed on the fundamentals of the grip,



stance, alignment, and the techniques and practice of the short game strokes of pitching, chipping and putting. Topics include the rules, terminology, safety procedures, values, etiquette, equipment, and history of golf. This course is designed for all students interested in playing golf as part of a fitness lifestyle or kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 166B Golf II

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 166A with a grade of “C” or better, or equivalent.

This course provides golf instruction and practice. Emphasis is placed on techniques of the full swing with irons, hybrids, fairway metals and drivers. Topics include golf fitness, stretching and the principles of warm-up as well as golf club selection and use. This course is designed for all students interested in playing golf as part of a fitness lifestyle or kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 166C Golf III

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 166B with a grade of “C” or better, or equivalent.

This course provides golf instruction and practice. Emphasis is placed on specialty shots, such as sand, side hill and up and down hill lies. The fundamental errors in golf are analyzed to correct individual errors focusing on swing techniques and the mental approach to the game. Topics include the laws of ball flight, the swing plane, and wise use of practice time. This course is designed for all students interested in playing golf as part of a fitness lifestyle and kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 166D Golf IV

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 166C with a grade of “C” or better, or equivalent.

This course provides golf instruction and practice. Emphasis is placed on playing strategies, analysis of golf rounds for strengths and weaknesses, student analysis of several different golf swings,

and the handicap system. Stroke and Match plays are arranged between class members to develop playing strategies in competition. This course is designed for all students interested in playing golf as part of a fitness lifestyle and kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Gymnastics

### 168A Gymnastics I

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 171.

This course is an introduction to gymnastics with progressive skill development in performing fundamental routines for gymnastic events. Emphasis is placed on gymnastics vocabulary, safety, injury prevention, balance and body alignment. This course is intended for all students interested in gymnastics or those that are kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 168B Gymnastics II

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 168A with a grade of “C” or better, or equivalent.

This course is the second of four courses in gymnastics with progressive skill development focusing on beginning routines for gymnastics. Emphasis is placed on gymnastics vocabulary, safety, injury prevention, balance and body alignment. This course is intended for all students interested in gymnastics and for those that are kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

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**168C Gymnastics III****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 168B with a grade of “C” or better, or equivalent.

This course is the third of four courses in gymnastics with progressive skill development focusing on level three routines for multiple apparatuses. Emphasis is placed on gymnastics vocabulary, safety, injury prevention, balance and body alignment. This course is intended for all students interested in gymnastics and kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**168D Gymnastics IV****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 168C with a grade of “C” or better, or equivalent.

This course is the fourth level of gymnastics with progressive skill development in multiple events. Emphasis is placed on the performance of optional routines. This course is intended for all students interested in gymnastics or kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**170A Women’s Gymnastics I****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 172.

This course is an introduction to women’s gymnastics with progressive skill development in performing fundamental routines for floor exercise and vault. Emphasis is placed on gymnastics vocabulary, safety, injury prevention, balance and body alignment. This course is intended for all students interested in women’s gymnastics. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**170B Women’s Gymnastics II****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 170A with a grade of “C” or better, or equivalent.

This course is the second of four courses in women’s gymnastics with progressive skill development focusing on beginning routines for uneven parallel bars. Beginning routines for floor exercise and vault

are also covered. Emphasis is placed on gymnastics vocabulary, safety, injury prevention, balance and body alignment. This course is intended for all students interested in women’s gymnastics. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**170C Women’s Gymnastics III****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 170B with a grade of “C” or better, or equivalent.

This course is the third of four courses in women’s gymnastics with progressive skill development focusing on intermediate skills. Topics covered include level three routines for floor exercise and vault, level two routines for uneven bars and level one routines for the balance beam. Emphasis is placed on gymnastics vocabulary, safety, injury prevention, balance and body alignment. This course is intended for all students interested in women’s gymnastics. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**170D Women’s Gymnastics IV****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 170C with a grade of “C” or better, or equivalent.

This course is the fourth of four courses in women’s gymnastics focusing on advanced skills. Emphasis is placed on the performance of level four optional and compulsory routines for floor exercise, uneven parallel bars, balance beam and vault. This course is intended for all students interested in women’s gymnastics. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**Pickleball****179A Pickleball I****3 hours lab, 0.5 – 1 unit  
Grade Only**

This course is an introduction to the sport of pickleball. Emphasis is placed on the fundamental pickleball techniques, rules and etiquette needed to play pickleball with no prior experience. When the course is offered for three hours per week, the additional time is utilized for stroke development and application of strategies in playing situations. This course is designed for kinesiology majors and all students interested in the sport of pickleball. AA/AS;

CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 179B Pickleball II

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 179A with a grade of “C” or better, or equivalent.

This course provides instruction and on-court experience in the skills, strategies, rules and etiquette necessary to play pickleball at a beginner level, including both singles and doubles. No prior experience is required, although a background in other racquet sports such as tennis, racquetball or badminton is helpful. When the course is offered for three hours per week, the additional time is utilized for stroke development and application of strategies in playing situations. This course is designed for kinesiology majors and all students interested in the sport of pickleball. AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 179C Pickleball III

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 179B with a grade of “C” or better, or equivalent.

This course provides instruction and on-court experience in the skills strategies, rules and etiquette necessary to play pickleball at an intermediate level, including both singles and doubles. Completion of Pickleball I or II is not required, but recommended. A background in other racquet sports such as tennis, racquetball or badminton is helpful. When the course is offered for three hours per week, the additional time utilized for stroke development and application of strategies in playing situations. AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 179D Pickleball IV

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 179C with a grade of “C” or better, or equivalent.

This course provides instruction and on-court experience in the skills, strategies, rules and etiquette necessary to play pickleball at an advanced level, including both singles and doubles. Completion of Pickleball 3 is highly recommended. A background in other racquet sports such as tennis, racquetball or badminton is helpful. When the course is offered for three hours per week, the

additional time is utilized for stroke development and application of strategies in playing situations, including tournaments. This course is designed for kinesiology majors and all students interested in the sport of pickleball. AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Soccer

### 174A Soccer I

**1.5 – 3 hours lab, 0.5 – 1 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 149 or Physical Education 149W.

This course provides instruction in basic soccer skill technique, strategies, etiquette and rules necessary to play soccer at the novice level. Topics include basic dribbling, heading and collection with the soccer ball. Students also define, apply and interpret the basic rules and safety procedures within the game of soccer. This class is designed for students interested in an active lifestyle as well as for Kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 174B Soccer II

**1.5 – 3 hours lab, 0.5 – 1 units  
Grade Only**

*Advisory:* Exercise Science 174A 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 149X.

This course provides instruction in soccer technique, tactics, and physical skills necessary to play soccer at the beginning level. Topics include dribbling skills including scissors and Matthews moves, passing techniques and turning while collecting a soccer ball. Students also define and apply methods of scoring, set pieces and principles of team defense within the game of soccer. This class is designed for students interested in an active lifestyle as well as Kinesiology

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 174C Soccer III

**1.5 – 3 hours lab, 0.5 – 1 units  
Grade Only**

*Advisory:* Exercise Science 174B 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 149Y.

This course provides instruction in individual soccer techniques, tactics, and physical skills necessary to play soccer at the intermediate level. Topics include shooting from both close and far distances, lofted passing techniques and offensive heading of the soccer ball. Students also define, apply and interpret methods of creating space, both offensively and defensively as an individual player. This class is designed for students interested in an active lifestyle as well as Kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 174D Soccer IV

**1.5 – 3 hours lab, 0.5 – 1 units  
Grade Only**

*Advisory:* Exercise Science 174C 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 149Z.

This course provides instruction in team soccer techniques, tactics, physical skills, etiquette, and rules necessary to play soccer at the advanced level. Topics include building the offensive through the back, playing through the midfield and attacking from the central and flank positions. Students also define and apply methods of zonal defending and defending various systems of play as a team. This class is designed for students interested in an active lifestyle as well as Kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Softball

### 176A Softball I

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 151.

This course provides instruction to develop 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 is intended for all students interested in softball. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 176B Softball II

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 176A with a grade of "C" or better, or equivalent.

This course provides instruction to continue the development of the beginning 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 is intended for all students interested in softball. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 176C Softball III

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 176B with a grade of "C" or better, or equivalent.

This course provides instruction to develop the intermediate 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 is intended for all students interested in softball. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 176D Softball IV

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 176C with a grade of "C" or better, or equivalent.

This course provides instruction to develop the advanced skills of throwing, catching, running, hitting and rules of play of softball, as well as, advanced individual and team skill development and strategies involved in competitive game situations. This course is intended for all students interested in softball. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Tennis

### 178A Tennis I

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 159 and 159W.

This course is the first in a series of four courses in tennis. Emphasis is placed on introductory level skills, strokes, strategies, rules and etiquette. This course is intended for kinesiology majors and all students interested in incorporating the game of tennis into an active lifestyle. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 178B Tennis II

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 178A 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 159X.

This course is the second in a series of four courses in tennis. Emphasis is placed on beginning level skills, strokes, strategies, rules and etiquette as they relate to tournament play. This course is intended for kinesiology majors and all students interested in incorporating the game of tennis into an active lifestyle. All objectives are covered in this course whether offered for 0.5 or 1.0 unit. When this course is offered for three hours per week, the additional time is utilized for skill development. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 178C Tennis III

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 178B 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 159Y.

This course is the third in a series of four courses in tennis. Emphasis is placed on intermediate level skills, strokes, strategies, rules and etiquette as they relate to league and tournament play. This course is intended for kinesiology majors and all students interested in incorporating the game of tennis into an active lifestyle. All objectives are covered in this

course whether offered for 0.5 or 1.0 unit. When this course is offered for three hours per week, the additional time is utilized for skill development and strategies. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 178D Tennis IV

**2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 178C 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 159Z.

This course is the fourth in a series of four courses in tennis. Emphasis is placed on advanced skills, strokes, strategies, rules and etiquette as they relate to singles and doubles tournament play. This course is intended for kinesiology majors and all students interested in incorporating the game of tennis into an active lifestyle. All objectives are covered in this course whether offered for 0.5 or 1.0 unit. When this course is offered for three hours per week, the additional time is utilized for skill development and strategies. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## Track and Field

### 180A Track and Field I

**1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 160 or Exercise Science 180.

This course is designed as an introduction to the fundamentals of track and field. Emphasis is placed on safety, form and techniques related to throwing, jumping and running events. This course is intended for anyone interested in track and field or Kinesiology Majors. (FT) AA/AS; CSU; UC.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**180B Track and Field II****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 180A with a grade of “C” or better, or equivalent.

This course provides instruction and practice in advanced beginner skills and techniques of all track and field events. Emphasis is placed on creating a conditioning program involving event-specific running and event technique and drills. This course is intended for anyone interested in track and field or those majoring in kinesiology. (FT) AA/AS; CSU.

**180C Track and Field III****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 180B with a grade of “C” or better, or equivalent.

This course provides instruction and practice in intermediate skills and techniques of all track and field events. Emphasis is placed on creating a conditioning program involving event-specific running and event technique and drills. This course is intended for anyone interested in track and field or those majoring in kinesiology. (FT) AA/AS; CSU.

**180D Track and Field IV****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 180C with a grade of “C” or better, or equivalent.

This course provides instruction and practice in advanced skills and techniques of all track and field events. Emphasis is placed on creating a conditioning program involving event-specific running and event technique and drills. This course is intended for anyone interested in track and field or those majoring in kinesiology. (FT) AA/AS; CSU.

**Volleyball****182A Volleyball I****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 161.

This course is the first of four courses in volleyball. Emphasis is placed on introductory level skills, basic rules, strategies and etiquette. This course is intended for Kinesiology majors and all students interested in incorporating the sport of volleyball into an active lifestyle. (FT) AA/AS; CSU; UC, for UC

Transfer Limitations see a Counselor or reference ASSIST.org.

**182B Volleyball II****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 182A with a grade of “C” or better, or equivalent.

The course is the second of four courses in volleyball. Emphasis is placed on beginning level skills and offensive and defensive systems as they relate to team play. This course is intended for Kinesiology majors and all students interested in incorporating the sport of volleyball into an active lifestyle. (FT) AA/AS; CSU; UC Transfer Limitation. See a Counselor.

**182C Volleyball III****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 182B with a grade of “C” or better, or equivalent.

This course is the third of four courses in volleyball. Emphasis is placed on intermediate level individual offensive and defensive skills. Topics include offensive team systems and options, and defensive theory and team systems as they relate to league play. This course is intended for Kinesiology majors and all students interested in incorporating the sport of volleyball into an active lifestyle. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**182D Volleyball IV****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 182C with a grade of “C” or better, or equivalent.

This course is the fourth of four courses in volleyball. Emphasis is placed on advanced level individual offensive and defensive skills. Topics include diversified offensive and defensive team systems as they relate to intercollegiate and international level volleyball. This course is intended for Kinesiology majors and all students interested in incorporating the sport of volleyball into an active lifestyle. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**183A Beach Volleyball I****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

This course is the first of four courses in beach volleyball. Emphasis is placed on volleyball terminology, introductory level skills, improvement of cardiovascular/aerobic fitness, basic rules, safety procedures, strategies and etiquette. This course is intended for kinesiology majors and all students interested in incorporating the sport of beach volleyball into an active lifestyle. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**183B Beach Volleyball II****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 183A with a grade of “C” or better, or equivalent.

This course is the second of four courses in beach volleyball. Emphasis is placed on beginning level skills and offensive and defensive systems as they relate to team play. This course is intended for Kinesiology majors and all students interested in incorporating the sport of volleyball into an active lifestyle. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**183C Beach Volleyball III****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 183B with a grade of “C” or better, or equivalent.

This is the third of four courses in beach volleyball. Topics include intermediate skill development, introduction to plyometric training, team strategies on offense and defense. This course is intended for kinesiology majors and all students interested in incorporating the sport of beach volleyball into an active lifestyle. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**183D Beach Volleyball IV****1.5 – 3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 183C with a grade of “C” or better, or equivalent.

This is the fourth of four courses in beach volleyball. Topics include advanced skill development, introduction to plyometric training, team strategies on offense and defense. This course is intended for kinesiology majors and all students interested in incorporating the sport of beach volleyball into an

active lifestyle. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**Water Polo****184A Water Polo I****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 163.

This course is an introduction to water polo. Emphasis is placed on fundamental water polo techniques and introductory level skills, including picking up a ball in the water, passing, receiving, shooting, dribbling, and playing in a game. Other topics include introductory level offensive and defensive positioning and movements; team strategies; and rules of play. This course is the first in a series of four water polo courses. It is intended for students interested in the sport of water polo. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**184B Water Polo II****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 184A with a grade of “C” or better, or equivalent.

This course provides introductory level students with beginning level knowledge and practice in the sport of water polo. Emphasis is placed on beginning level water polo techniques and skills, including picking up a ball in the water, passing, receiving, shooting, dribbling, and playing in a game. Other topics include beginning level offensive and defensive positioning and movements; team strategies; and rules of play. This course is the second in a series of four water polo courses. It is intended for students interested in the sport of water polo. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**184C Water Polo III****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 184B with a grade of “C” or better, or equivalent.

This course provides beginning level students with intermediate level knowledge and practice in the sport of water polo. Emphasis is placed on intermediate level water polo techniques and skills, including picking up a ball in the water, passing, receiving, shooting, dribbling, and playing in a game. Other topics include intermediate level offensive and defensive positioning and movements; team strategies; and rules of play. This course is the third in a series of four water polo courses. It is intended for students who have been playing water polo for more than 6 months. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**184D Water Polo IV****2–3 hours lab, 0.5 – 1 unit  
Grade Only**

*Advisory:* Exercise Science 184C with a grade of “C” or better, or equivalent.

This course provides intermediate level students with advanced level knowledge and practice in the sport of water polo. Emphasis is placed on advanced level water polo techniques and skills, including passing, receiving, shooting, dribbling, and playing in a game. Other topics include advanced level offensive and defensive positioning and movements; team strategies; and rules of play. This course is the fourth in a series of four water polo courses. It is intended for students who have been playing water polo for more than 12 months. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**Intercollegiate Athletics****200 Intercollegiate Badminton I****96–175 hours lab, 2–3.5 units  
Grade Only**

*Advisory:* Exercise Science 154A with a grade of “C” or better, or equivalent, or previous competitive badminton experience.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 200.

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. Students must demonstrate increased proficiency and skill attainment with each repetition. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**201 Intercollegiate Badminton II****96–175 hours lab, 2–3.5 units  
Grade Only**

*Advisory:* Exercise Science 200 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 201.

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. Students must demonstrate increased proficiency and skill attainment with each repetition. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**202 Intercollegiate Baseball I****96–175 hours lab, 2–3.5 units  
Grade Only**

*Advisory:* Exercise Science 230A 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 202.

This course is intended for the first season of intercollegiate competition. Baseball skills and game strategies are at a more advanced level of participation than those of an introductory course in baseball. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**203 Intercollegiate Baseball II****96–175 hours lab, 2–3.5 units  
Grade Only**

*Advisory:* Exercise Science 230B 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 203.

This course is intended for the second season of intercollegiate competition. Baseball skills and game strategies are at the advanced levels of participation. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.



**204 Intercollegiate Basketball I**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 204.

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 an introductory course in basketball. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**205 Intercollegiate Basketball II**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 205.

This course is intended for the second season of intercollegiate competition. Basketball skills and game strategies are at the advanced levels of participation. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**206 Intercollegiate Cross-Country I**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 206.

This course is for students participating in their first season of intercollegiate 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**207 Intercollegiate Cross Country II**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 207.

This course is for students participating in their second season of intercollegiate 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**210 Intercollegiate Football I**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Advisory:* Completion of or concurrent enrollment in Exercise Science 233B 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 210. A physician’s medical release form is required. 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. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**211 Intercollegiate Football II**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Advisory:* Completion of or concurrent enrollment in Exercise Science 233B 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 211. A physician’s medical release form is required. This course is designed for students in their second season of intercollegiate football. Topics include fundamental skills of play for offense/defense and special teams. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**214 Intercollegiate Soccer I**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 214.

This is a course in which students competing in their first intercollegiate soccer season learn and practice the techniques and strategies necessary for successful participation. The topics covered are fundamental through advanced skills as well

(FT) = A field trip may be required for this course.  
 AA/AS = Associate Degree Applicable  
 CSU = California State University Applicable  
 UC = University of California Applicable  
 Milestone formerly referred to as Skill Level

as offensive and defensive strategies. 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **215 Intercollegiate Soccer II**

**96–175 hours lab, 2–3.5 units  
Grade Only**

*Advisory:* Concurrent enrollment in Exercise Science 234B 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 215.

This is a course in which students competing in their second intercollegiate soccer season of competition learn and practice the techniques and strategies necessary for successful participation. Those topics covered are fundamental through advanced soccer skills and both offensive and defensive strategies. This course is offered separately for both men and women in the Fall semester. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **216 Intercollegiate Softball I**

**96–175 hours lab, 2–3.5 units  
Grade Only**

*Limitation on Enrollment:* A physician’s medical release form is required. This course is not open to students with previous credit for Physical Education 216.

This course is designed for students competing in their first intercollegiate softball season. Students will 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. Students must demonstrate increased softball skill proficiency and skill attainment with each repetition. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **217 Intercollegiate Softball II**

**96–175 hours lab, 2–3.5 units  
Grade Only**

*Limitation on Enrollment:* A physician’s medical release form is required. This course is not open to students with previous credit for Physical Education 217.

This course is designed for students competing in their second intercollegiate softball season. Students will 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. Students must demonstrate increased softball skill proficiency and skill attainment with each repetition. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **218 Intercollegiate Swimming I**

**96–175 hours lab, 2–3.5 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 218. A physician’s medical release form is required. 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. Students must demonstrate increased proficiency and skill attainment with each repetition. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **219 Intercollegiate Swimming II**

**96–175 hours lab, 2–3.5 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 219. A physician’s medical release form is required. This course is designed for students to compete in a second semester of men’s and women’s intercollegiate varsity swimming and diving 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **220 Intercollegiate Tennis I**

**96–175 hours lab, 2–3.5 units  
Grade Only**

*Advisory:* Exercise Science 178D with a grade of “C” or better, or equivalent or previous competitive tennis experience.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 220.

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. Students must demonstrate increased proficiency and skill attainment with each repetition. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**221 Intercollegiate Tennis II**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Advisory:* Exercise Science 220 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 221.

This is a course for students competing in their second intercollegiate tennis season. This course is offered in the spring semester for men and women and may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**222 Intercollegiate Track and Field I**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 222.

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**223 Intercollegiate Track and Field II**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 223.

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**224 Intercollegiate Volleyball I**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Advisory:* Exercise Science 182A with a grade of “C” or better, or equivalent and/or previous competitive volleyball experience.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 224.

This is the first course in intercollegiate volleyball competition. Topics include analyses of team offensive and defensive systems. This course is designed to prepare advanced volleyball students for intercollegiate competition. This course is offered in the fall and spring semester and may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**225 Intercollegiate Volleyball II**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Advisory:* Exercise Science 224 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 225.

This is the second course in intercollegiate volleyball competition. This course is offered in the fall and spring semester and may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**226 Intercollegiate Water Polo I**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 226.

This course is designed for men and women participating in intercollegiate water polo competition. Topics include fundamental techniques of water polo, individual and team offensive tactics,

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 CSU = California State University Applicable  
 UC = University of California Applicable  
 Milestone formerly referred to as Skill Level

individual and team defensive tactics, and rules of play. This course is designed to improve student proficiency and skill level with each repetition and may be taken two times for credit. It is intended for intercollegiate athletes. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**227 Intercollegiate Water Polo II**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Prerequisite:* Exercise Science 226 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 227.

This course is designed for men and women participating in intercollegiate water polo competition. Topics include advanced techniques of water polo, advanced individual and team offensive tactics, advanced individual and team defensive tactics, and further study in rules of play. This course is designed to improve student proficiency and skill level with each repetition and may be taken two times for credit. It is intended for intercollegiate athletes. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**228A Intercollegiate Sand Volleyball I**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

This is the first course in intercollegiate sand volleyball competition. Topics include analyses of individual and team strategies. This course is designed for students interested in competing in sand volleyball at a collegiate-level. Students must pass the sports physical administered by the team physician prior to competition. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**228B Intercollegiate Sand Volleyball II**  
**96–175 hours lab, 2–3.5 units**  
**Grade Only**

*Advisory:* Exercise Science 228A with a grade of “C” or better, or equivalent.

This is the second course in intercollegiate sand volleyball competition. Topics include analyses of individual and team strategies. This course is designed for students interested in competing in sand volleyball at a collegiate-level. Students must pass the sports physical administered by the team

physician prior to competition. This course may be taken two times for credit. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**Fitness Specialist Certificate**  
**Courses**

**270 Exercise Science Internship / Work Experience**

**60–300 hours other, 1–4 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 270.

This course provides on-the-job learning experience for students employed in an exercise science-related job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. One unit of credit may be earned for each 75 hours of paid employment or 60 hours of volunteer work. This course may be taken up to four times. However, the combined maximum credit for all Work Experience courses from all subject areas may not exceed 16 units. This course is intended for students majoring in Exercise Science or those interested in the fitness, health, and wellness industry. This includes but is not limited to the fields of personal training, physical therapy, strength and conditioning, health and wellness coaching, and yoga teaching. (FT) AA/AS; CSU.

**280 Applied Exercise Physiology**  
**2 hours lecture, 2 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 280.

This course is an introduction to 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, as well as their effects on disease risk. This course is intended for students seeking certification as personal trainers. (FT) AA/AS; CSU.

**281 Applied Kinesiology****2 hours lecture, 2 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 281.

This course is a study of movement as it relates to exercise under both normal and injury conditions. Students learn the practical implications of exercise on bones, joints, nerves, and muscles. Emphasis is placed on applying body alignment, range of motion, stabilization, and acceleration principles to the development of exercise programs. This course is intended for students seeking certification as personal trainers. (FT) AA/AS; CSU.

**282 Techniques of Weight Training****2 hours lecture, 2 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 282.

This course is an introduction to teaching techniques in weight training. Topics include anatomy, physiology, training sequences, equipment options, safety factors, and contraindications. This course is intended for students seeking certification as personal trainers. (FT) AA/AS; CSU.

**283 Exercise and Fitness Assessment****1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 283.

This course prepares students to assess and evaluate exercise and fitness parameters. Topics include the measurement and evaluation of cardiorespiratory endurance; muscular strength and endurance; flexibility; body fat; pulmonary function; and blood pressure. Emphasis is placed on determining the appropriate test, conducting the test, interpreting the results, and creating an exercise program. This course is intended for students seeking certification as personal trainers. (FT) AA/AS; CSU.

**284 Fitness and Sports Nutrition****2 hours lecture, 2 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 284.

This course covers the basic principles of nutrition and the ramifications of nutrition on sports activities. Topics include general nutrition, nutritional considerations for optimal sports performance, and weight control. This course is intended for students seeking certification as personal trainers. (FT) AA/AS; CSU.

**285 Exercise for Special Populations****2 hours lecture, 2 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 285.

This course presents 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; and sensory impairments. Issues and barriers to exercise are included for each of the following groups: seniors; children; athletes; the mentally impaired; and pregnant and postpartum women. This course is intended for students seeking certification as personal trainers. (FT) AA/AS; CSU.

**286 Techniques of Exercise Leadership****1.75 hours lecture, 0.75 hours lab, 2 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 286.

This course provides students with the principles and techniques involved in 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. This course is intended for students seeking certification as personal trainers. (FT) AA/AS; CSU.

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**288 Fitness Specialist Internship Lecture**  
**1 hour lecture, 1 unit**  
**Grade Only**

*Advisory:* Concurrent enrollment in Exercise Science 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, Physical Therapist Assistant 188 or Exercise Science 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.

**290 Independent Study**  
**3–9 hours other, 1–3 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Obtain Permission Number from Instructor. This course is not open to students with previous credit for Physical Education 290.

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of exercise science. It 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. (FT) AA/AS; CSU.

**294 Health and Wellness Coaching**  
**3 hours lecture, 3 units**  
**Grade Only**

This course provides students with the theoretical knowledge and practical skills required to be a health and wellness coach. Emphasis is placed on effective coach-to-client communication techniques as well as the fundamentals of the behavioral, nutritional, and physiological sciences as they relate to health and wellness coaching. Topics include screening and assessment, guidelines for designing and implementing safe, effective, progressive purposeful exercise programs, legal, professional ethics responsibility and liability, and roles of the health/wellness coach. This course is intended for students who are interested in health and wellness in addition to students who are preparing for the American Council on Exercise’s (ACE) national examination for Health Coach Certification. To be

eligible to take the certification exam, students must have passed a personal training or group exercise certification from the National Commission for Certifying Agencies (NCCA), which include the American Council of Exercise (ACE), American College of Sports Medicine (ACSM), and National Strength and Conditioning Association (NSCA). (FT) AA/AS; CSU.

**298 Applications of Health and Wellness Coaching**  
**1.5 – 3 hours lab, 0.5 – 1 unit**  
**Grade Only**

*Prerequisite:* Exercise Science 294 with a grade of “C” or better, or equivalent.

This course helps students enhance their coaching skills with practice coaching sessions and instructor feedback. It also covers the ethical and legal implications of health and wellness coaching. This course is designed to provide students in the Health and Wellness Coaching Program with practical experience in the field of wellness coaching. (FT) AA/AS; CSU.

**Exercise Science Theory Classes**

**230A Theories and Strategies of Baseball I**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 252A.

This course provides instruction to develop the fundamental skills of throwing, catching, running, hitting, and the rules of NCAA baseball as well as strategies used during game competition. Sport specific speed and strength development is emphasized. This course is intended for intercollegiate baseball players only. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**230B Theories and Strategies of Baseball II**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Grade Only**

*Advisory:* Exercise Science 230A 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 252B.

Sophomore athletic eligibility status required. A continuation of Physical Education “Theories and Strategies of Baseball Level I” with emphasis on

advanced skills, strategy, tactics, rules officiating, and organizational procedures in baseball. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**231A Theories and Strategies of Basketball I**  
1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 251A.

This course covers the theoretical concepts necessary for students to compete successfully in their first intercollegiate basketball season. Topics include rules, game strategies, history, and game preparation. The physiological requirements for the intercollegiate athlete and importance of nutritional components for optimal performance are emphasized. Separate sections of this course are offered for men and women. The course is intended for intercollegiate athletes. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**231B Theories and Strategies of Basketball II**  
1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only

*Advisory:* Exercise Science 231A with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in Exercise Science 205 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 251B.

This course covers advanced theoretical concepts and techniques for intercollegiate basketball competition. Topics include advanced team strategies, efficient basketball conditioning techniques, goals for game preparation, and leadership qualities for basketball. Concepts of team building and social skills necessary for success at the intercollegiate level are also emphasized. Separate sections of this course are offered for men and women. The course is intended for intercollegiate athletes. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**232A Professional Activities/Cross Country I**  
1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 258A.

This course introduces students to the development of skills for cross country running as well as biomechanics, exercise physiology, workout design, scouting, and procedures for administering a college cross country meet. The course is designed for students who are participating in this sport and for those who may be interested in coaching cross country teams. (FT) AA/AS; CSU; UC.

**232B Professional Activities/Cross Country II**  
1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only

*Prerequisite:* Exercise Science 232A 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 258B.

This course covers the development of advanced skills in cross country running, including techniques of biomechanics, exercise physiology, workout design, and scouting. Emphasis is placed on procedures for administering college cross country meets and coaching techniques. This course is designed for second-year students who are participating in this sport and for those who are interested in coaching cross-country teams. (FT) AA/AS; CSU; UC.

**233A Theories and Strategies of Intercollegiate Football I**  
1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only

*Advisory:* Concurrent enrollment in Exercise Science 210.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 250A.

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

(FT) = A field trip may be required for this course.  
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CSU = California State University Applicable  
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Milestone formerly referred to as Skill Level

### **233B Theories and Strategies of Intercollegiate Football II**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* Concurrent enrollment in Exercise Science 211 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 250B.

This course in the theory and strategies of intercollegiate football is offered in the Fall semester and emphasizes advanced game skills, tactics, rules officiating, and organizational procedures. Students develop social skills and team building techniques required for success on the football team. This course is designed for students involved in intercollegiate football. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **234A Theories and Strategies of Soccer I**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 257A.

This course covers the theoretical concepts necessary for students to compete successfully in their first intercollegiate soccer season. Topics include mechanical analysis of fundamental through advanced soccer skills, offensive and defensive strategies, statistics, rules, and officiating. Separate sections of this course are offered for men and women. The course is intended for intercollegiate athletes. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **234B Theories and Strategies of Soccer II**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Prerequisite:* Exercise Science 234A 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 257B.

This course covers advanced theoretical concepts and techniques for intercollegiate soccer competition. Topics include 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. Separate sections of this course are

offered for men and women. The course is intended for intercollegiate athletes. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **235A Theories and Strategies of Softball I**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* Concurrent enrollment in Exercise Science 216 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 253A.

This course explores a variety of softball strategies and techniques focusing on the development of offensive and defensive strategies, rules, officiating, video review, and mechanical analysis of fundamentals through advanced softball skills. The course is open to students interested in participating in intercollegiate softball or kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **235B Theories and Strategies of Softball II**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* Concurrent enrollment in Exercise Science 217 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 253B.

This course develops both mental and physical competency with emphasis on advanced skill, mechanics, rules, 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 intercollegiate softball and kinesiology majors. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **236A Theories and Strategies of Beach Volleyball I**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* Completion of or concurrent enrollment in: Exercise Science 228A with a grade of "C" or better, or equivalent.

This course covers theoretical concepts necessary for successful participation in beach volleyball. Topics covered include mechanical analysis of fundamentals through advanced beach volleyball



skills, offensive/defensive strategies, court etiquette, rules and officiating. This course is designed for students competing on the intercollegiate beach volleyball team and those interested in the sport of beach volleyball. (FT) AA/AS; CSU.

### **236B Theories and Strategies of Beach Volleyball II**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* Completion of or concurrent enrollment in: Exercise Science 228B with a grade of “C” or better, or equivalent.

This course covers advanced theoretical concepts necessary for successful participation in beach volleyball. Topics include advanced team strategies, efficient beach volleyball conditioning techniques, goals for game preparation, and leadership qualities for beach volleyball. Concepts of team building and social skills necessary for success at the intercollegiate level are also emphasized. This course is designed for students competing on the intercollegiate beach volleyball team and those interested in the sport of beach volleyball. (FT) AA/AS; CSU.

### **237A Theories and Strategies of Tennis I**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 248A.

This course covers the theoretical concepts necessary for students to compete successfully in their first intercollegiate tennis season. Topics covered include mechanical analysis of fundamental through advanced tennis skills, offensive and defensive strategies, statistics, and rules. This course is offered separately for men and women who are interested in competing at the intercollegiate level. (FT) AA/AS; CSU.

### **237B Theories and Strategies of Tennis II**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 248B.

This course further develops the theoretical and practical skills necessary for students to compete successfully in their second intercollegiate tennis season. Emphasis is placed on advanced offensive and defensive tennis skills and strategies. This course

is offered separately for men and women who are interested in competing at the intercollegiate level. (FT) AA/AS; CSU.

### **238A Theories and Strategies/Track and Field I**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Corequisite:* Exercise Science 222.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 254A.

This course is a practical application of track and field program management. Emphasis is placed on team development, competition scheduling, site preparation, and teaching the principles of track and field. This course is offered during Spring semester for students enrolled in a first intercollegiate track and field season. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### **238B Theories and Strategies/Track and Field II**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Corequisite:* Exercise Science 223.

*Advisory:* Exercise Science 238A 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 254B.

This course is an advanced application of track and field program management. Emphasis is placed on skills, tactics, officiating, facilities, video review and organizational procedures for administering a college track and field meet. This course is offered during the Spring semester for students enrolled in a second intercollegiate track and field season. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
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Milestone formerly referred to as Skill Level

### 239A Theories and Strategies of Intercollegiate Volleyball I

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* Concurrent enrollment in Exercise Science 224 or Exercise Science 225.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 255A.

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 fundamentals through advanced volleyball skills, offensive/defensive strategies, statistics, rules and officiating. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 239B Theories and Strategies/ Volleyball II

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* Exercise Science 239A with a grade of "C" or better, or equivalent.

*Advisory:* Concurrent enrollment in: Exercise Science 225 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 255B.

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 240 Physical Education in the Elementary Schools

**3 hours lecture, 1 hour lab, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 240.

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. Students gain knowledge and understanding of the physiological and sociological effects of alcohol, narcotics, drugs and tobacco and of ways to identify, refer, and support students and their families who may be at risk of physical, psychological, emotional or social health problems. Actual teaching situations are experienced in the lab sessions. This course is designed to fulfill lower division preparation for the kinesiology major or for students interested in elementary education. (FT) AA/AS; CSU.

### 241B Introduction to Kinesiology

**3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 241B.

This introductory course covers the professional career options, history, basic philosophy, and principles of kinesiology. Other topics include current and emerging issues in foods and nutrition. This course is intended for Kinesiology majors or anyone exploring opportunities in the fields of health, wellness, physical activity, nutrition, or sport. (FT) AA/AS; CSU; UC; C-ID KIN 100.

### 242B Care and Prevention of Injuries

**3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Education 242, 242B or Exercise Science 289.

This course covers the theory and practice of emergency field care and basic athletic first aid. Topics include prevention and care of common athletic injuries, bandaging and/or taping techniques. This course is designed for students interested in athletic training, coaching of sports and majoring in Physical Education, Kinesiology and Exercise Science. (FT) AA/AS; CSU; UC.

### 243A Theories and Strategies of Water Polo I

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Advisory:* Completion of or concurrent enrollment in Exercise Science 226 with a grade of "C" or better, or equivalent.

This course covers the theoretical concepts necessary for students to compete successfully in their first intercollegiate water polo season.

Topics include rules, game strategies, history, and game preparation. The physiological requirements for the intercollegiate athlete and importance of nutritional components for optimal performance are emphasized. Separate sections of this course are offered for men and women. The course is intended for intercollegiate water polo athletes. (FT) AA/AS; CSU.

**243B Theories and Strategies of Water Polo II**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Grade Only**

*Advisory:* Completion of or concurrent enrollment in Exercise Science 227 with a grade of "C" or better, or equivalent.

This course covers advanced theoretical concepts and techniques for intercollegiate water polo competition. Topics include advanced team strategies, efficient water polo conditioning techniques, goals for game preparation, and leadership qualities for water polo. Concepts of team building and social skills necessary for success at the intercollegiate level are also emphasized. Separate sections of this course are offered for men and women. The course is intended for intercollegiate water polo athletes. (FT) AA/AS; CSU.

**244A Theories and Strategies of Swimming and Diving I**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Grade Only**

*Advisory:* Completion of or concurrent enrollment in Exercise Science 218 with a grade of "C" or better, or equivalent.

This course covers the theoretical concepts necessary for students to compete successfully in their first intercollegiate swimming and diving season. Topics covered include rules, history, race tactics, individual and team training and strategies. The physiological requirements for the intercollegiate athlete and importance of nutritional components for optimal performance are emphasized. Separate sections of this course are offered for men and women. The course is intended for intercollegiate athletes and students who may be interested in coaching swimming and diving teams. (FT) AA/AS; CSU.

**244B Theories and Strategies of Swimming and Diving II**

**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Grade Only**

*Advisory:* Completion of or concurrent enrollment in Exercise Science 219 with a grade of "C" or better, or equivalent.

This course covers advanced theoretical concepts and techniques for intercollegiate swimming and diving competition. Emphasis is placed on team development, competition scheduling, site preparation, and teaching the principles of swimming and diving program management. Topics include advanced team strategies, officiating, facilities, and organizational procedures for administering a college swimming and diving meet. Concepts of team building, leadership and social skills necessary for success at the intercollegiate level are also emphasized. Separate sections of this course are offered for men and women. This course is designed for second-year students who are participating in this sport and for those who are interested in coaching swimming and diving. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

**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.

This course is a survey of the fashion industry. Emphasis is placed on all aspects of the fashion field including the designing, manufacturing, retailing,

(FT) = A field trip may be required for this course.  
 AA/AS = Associate Degree Applicable  
 CSU = California State University Applicable  
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 Milestone formerly referred to as Skill Level

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:* Concurrent enrollment in Fashion 105. This course provides an analysis of the quality of materials, design, and construction in ready-to-wear garments. Topics also include sizing, fit, selling points and buying benefits. This course designed for fashion merchandising majors and marketing students interested in the ready-to-wear and retail industry. (FT) AA/AS; CSU.

### **109 Fashion Product Development**

**2.5 hours lecture, 1.5 hours lab, 3 units**

*Prerequisite:* Fashion 105 and 108, or Fashion 130 and Computer Business Technology 140, each with a grade of "C" or better, or equivalent.

*Advisory:* Fashion 140 and 176, each with a grade of "C" or better, or equivalent.

In this course students learn the processes of sourcing and product development for apparel businesses. The focus includes research, development, and execution of a production-ready prototype and its technical package. Included are techniques in building a technical package, approving samples, pattern adjustment and appropriate fit. This course is designed for students enrolled in the Fashion Merchandising program and those interested in fashion product development. (FT) AA/AS; CSU.

### **110 Fashion Buying/Management**

**3 hours lecture, 3 units  
Grade Only**

This course is a study and practical application 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.

### **111 Fashion E-commerce**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Fashion 105, Fashion 110, Fashion 175, or Fashion 179, each with a grade of "C" or better, or equivalent.

This course is a study and practical applications necessary for E-Commerce fashion business. Emphasis is on planning, creation and management of an E-Commerce site for a fashion-related business. Topics include research analysis, development of an online identity, site planning, and the processes involved in building, managing, and marketing an online web store. This course is designed for fashion merchandising and business students, anyone interested in exploring E-Commerce 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.

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 activities 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.

### **113 Fashion Event Planning and Production**

**1.5 hours lecture, 1.5 units  
Grade Only**

In this course students learn the process of planning and producing fashion events currently utilized in the fashion industry. Additionally, students effectively plan and execute a fashion-related community event. This course is designed for students seeking skills in event management. (FT) AA/AS; CSU.

### **115 Visual Merchandising**

**3 hours lecture, 3 units  
Grade Only**

This course is a 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.

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: Overview of History and Design

**1 hour lecture, 1 unit  
Grade Only**

This course provides a basic overview of ethnic costume from around the world. Emphasis is placed on silhouette, cut, and embellishment. This course is designed for students interested in broadening their appreciation of global traditional dress. (FT) AA/AS; CSU; UC.

### 122 Ethnic Costume

**3 hours lecture, 3 units  
Grade Only**

This course is an in-depth study of ethnic costume from around the world. Emphasis is placed on the interrelationship of history, geography and anthropology on the dress of various cultures. Costumes are studied in terms of styling, fabrication, embellishment and local influences, such as the arts and crafts practiced by the group. This course is designed for students in multiple disciplines who are interested in gaining an appreciation of world costume, past and present. (FT) AA/AS; CSU; UC.

### 123 Introduction to Costume Development

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Advisory:* Fashion 120, Fashion 130, Fashion 131, Fashion 141, and Fashion 145, each with a grade of "C" or better, or equivalent.

In this course students learn the process of costuming for theatre and stage. They study the various approaches to costuming and will research, design, draft/drape and construct a costume from a period of history, suitable for the stage.

Analysis, sketching, pattern drafting/draping and construction skills will be utilized. This course is designed for Fashion students interested in costume development. (FT) AA/AS; CSU.

### 124 Costume Understructures

**0.5 hours lecture, 1.5 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Fashion 130, Fashion 140, and Fashion 199A, each with a grade of "C" or better, or equivalent.

*Advisory:* Fashion 145 with a grade of "C" or better, or equivalent.

This course focuses on the history and design of understructures that altered the fashion silhouette. Students will research, design, and construct a period-appropriate understructure utilizing appropriate fabrics and techniques. This course is suitable for anyone interested in working in costuming within the theatre and entertainment industries. (FT) AA/AS; CSU.

### 125 Fashion Selection

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

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.

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

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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.

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**

*Prerequisite:* Fashion 131 with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course presents various tailoring techniques. Emphasis is placed on tailoring and fitting a coat or jacket utilizing a commercial pattern. This course is intended for students majoring in fashion design. (FT) AA/AS; CSU.

### 140 Clothing Design and Flat Pattern I

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Fashion 130 with a grade of "C" or better, or equivalent.

This course is a study of clothing design through flat pattern making. Students make patterns by manipulation of a basic sloper to create a variety of designs. This course is designed 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**

#### REQUISITES:

*Prerequisite:* 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 Illustration & Technical Sketching

**3 hours lecture, 3 units  
Grade Only**

This course is a practical study of fashion illustration techniques for drawing the elongated figure (croquis) and technical flats. Emphasis is placed on the use of the croquis to interpret and draw garment shapes. Art media focus on graphite, grayscale marker technique, and stylist pen. This course is intended for fashion design majors. (FT) AA/AS; CSU.

### 143 Advanced Fashion Illustration and Technical Sketching

**1.5 hours lecture, 1.5 units  
Grade Only**

*Prerequisite:* Fashion 142 with a grade of "C" or better, or equivalent.

This advanced course continues development of individualized sketching style by perfecting the elongated fashion croquis, production technical flats, and exploring portfolio ready theme presentation boards. Advanced color marker and color pencil media techniques are developed for rendering a variety of fabric textures. This course is intended for fashion design majors. (FT) AA/AS; CSU.

### 145 Clothing Design Through Draping

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Fashion 130 and Fashion 140, each with a grade of "C" or better, or equivalent.

*Corequisite:* Fashion 199B.

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.

### 147 Stretch Knits: Design and Construction

**0.5 hours lecture, 1.5 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Fashion 130 and Fashion 140, each with a grade of "C" or better, or equivalent.

This course focuses on the design and construction of stretch knit clothing. Students learn to evaluate knit fabrics and to draft appropriate patterns.

Specialty construction techniques are covered. This course is suitable for Fashion students interested in working in the knitwear, activewear, swimwear, or costuming industries. (FT) AA/AS; CSU.

### 150 Advanced Fashion Design

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Fashion 130, Fashion 140, and Fashion 142 or Fashion 176 and Fashion 145, each with a grade of "C" or better, or equivalent.

*Advisory:* Fashion 141 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

**3–12 hours lab, 1–4 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

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 San Diego and Los Angeles, and/or other domestic markets. 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.

### 156 International Fashion Field Studies: Overview

**3 - 12 hours lab, 1-4 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is a field study of the international fashion industry. Emphasis is placed on an overview of the international fashion world with visits to textile, manufacturing, design, merchandising and retail operations abroad. This course is designed for students majoring in fashion who wish to experience fashion from a global perspective. (FT) AA/AS; CSU.

### 157 International Field Studies: Focused Study

**3–12 hours lab, 1–4 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is a field study of special topics in the international fashion industry. Emphasis is placed on expanding one's knowledge in a focused way through experiences abroad with global fashion design, merchandising, technology and business operations. This course is intended for students majoring in fashion who wish to explore an area of the international fashion industry in greater depth. (FT) AA/AS; CSU.

### 158 Fashion Field Studies: Trade Shows/ Markets

**3–12 hours lab, 1–4 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Fashion 110, 190 or 130 and Fashion 140, each with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is a study of fashion industry trade shows. Emphasis is placed on field trip outings to a variety of domestic fashion industry trade shows. This course is designed for students majoring in fashion and those who wish to explore the resources available for fashion designers, retailers, buyers and manufacturers. (FT) AA/AS; CSU.

### 160 Millinery Techniques

**1 hour lecture, 1 unit  
Grade Only**

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.

(FT) = A field trip may be required for this course.  
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**161 Millinery Flat Pattern Design****1 hour lecture, 1 unit  
Grade Only**

This course is a study of millinery design through flat pattern making. Students 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**

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.

**166 Fitting Techniques and Alterations****3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Fashion 130, 199A, and 140, each with a grade of "C" or better, or equivalent.

This course covers the process of fitting patterns to the body. Topics include taking accurate body measurements, pattern alterations, solving typical fit issues, and altering ready-to-wear (RTW) for fit. This course is intended for fashion design majors and professionals who want to update their technical skills. (FT) AA/AS; CSU.

**168 Textiles****3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Consumer Studies 140.

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 Fashion Design, as well as for those who desire to be better consumers of textile products. (FT) AA/AS; CSU.

**169 Textile Design Practicum****2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

This course covers an in-depth study and execution of skills utilized create original textile fabrics and embellishments. Emphasis is placed on the historical and current traditions of design and the practical techniques required to create and embellish fabrics. Students will execute a variety of techniques through the creation of projects in the areas of dyeing, printing, and surface design. This course is intended for students interested in creating original fabrics for use in fashion, theatre and interiors. (FT) AA/AS; CSU.

**170 Textile Design****1 hour lecture, 1 unit  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Fashion 265. 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. 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 for Industry****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 in the fashion industry. Students may



utilize computer peripherals to facilitate the pattern drafting process. This course is intended for fashion design students. (FT) AA/AS; CSU.

**173 Fashion Marketing on the Internet**  
**1 hour 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 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: Adobe PhotoShop**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

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: Adobe Illustrator**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

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, digital 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**

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**

This course is a practical study of photo styling and the role of photography in fashion marketing. Emphasis is placed on simulating the daily work of a photo stylist, including styling techniques, self-promotion and business management. Students create a portfolio of work based on common photo styling projects. 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:* Mathematics 92 with a grade of "C" or better, or equivalent or Milestone M40; English 101 with a grade of "C" or better, or equivalent. 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.

(FT) = A field trip may be required for this course.  
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*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.

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.

*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.

**290 Independent Study**

**48–162 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 a permission number from the instructor for enrollment. For students who wish to research and create special fashion-related projects. AA/AS; CSU.

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**Fermentation (FERM)**

**101 Introduction to Yeast and Fermentation**

**3 hours lecture, 3 units  
Grade Only**

This foundation course focuses on yeast and fermentation science through the eyes of a beverage maker. The importance of yeast in the beverage-making profession, and how it creates the flavor and form are explored. Review of fundamental principles of biology and culture of the grapevine, harvest and wine making process are discussed. The raw ingredients associated with the brewing and distilling process are introduced. This course is designed for students enrolled in the Fermentation Management program and for the beginning brewer, winemaker or spirits enthusiast. (FT) AA/AS; CSU; UC.

**110 Importing and Distribution**

**3 hours lecture, 3 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Fermentation 101 with a grade of “C” or better, or equivalent.  
*Advisory:* Hospitality 102 with a grade of “C” or better, or equivalent.

This course is an overview of the journey from producer to market to fully understand what wineries look for in order to get their products to market. Students learn the many intricacies of setting up an import business, including licensing, shipping and logistics. Students also learn about distribution, what it takes to get it and to keep it, including marketing, training and relationship-building. This course is designed for students enrolled in the Fermentation Management program

and for the beginning brewer, winemaker or spirits enthusiast. (FT) AA/AS; CSU.

### 120 Fundamentals of Spirits

**2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Fermentation 101 with a grade of "C" or better, or equivalent.

*Advisory:* Hospitality 102 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Following state licensing regulations for tasting, students enrolled in the course must be 18 years or older.

This course looks at the process of distilling multiple spirits and gives insights on how distilling has progressed throughout history. It is a taste of what is to come for the beginner distiller. This course is designed for students in the Fermentation Science program. (FT) AA/AS; CSU.

### 130 Flavor and Form

**2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Fermentation 101 with a grade of "C" or better, or equivalent.

*Advisory:* Hospitality 102 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Following state licensing regulations for tasting, students enrolled in the course must be 18 years or older.

This course is an examination of the history, community and business of beer, wine and spirits in hospitality management, from its international beverage markets to the small craft distributors. Comprehension of styles, regions, processes and food pairings are explored through weekly tastings and sensory applications of the principles of beverage making. An examination of the economic impact of beverage on the hospitality industry is also included. This course is designed for students enrolled in the Fermentation Management program. (FT) AA/AS; CSU.

### 140 Beer Production Laboratory

**12 hours lab, 4 units  
Grade Only**

*Prerequisite:* Fermentation 101, and Chemistry 111, and 111L, or Chemistry 152, and 152L, and Business 115, Mathematics 119 or Mathematics 116, each with a grade of "C" or better, or equivalent.

*Advisory:* Hospitality 102 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Following state licensing regulations for tasting, students enrolled in the course must be 18 years or older.

This course is designed to introduce students to scientific principles of beer and the brewing process. The complexities of the brewing process, including ingredients, methods, biology and chemistry, are explored. This course is designed for students in the Fermentation Management program. (FT) AA/AS; CSU.

### 150 Wine Production Laboratory

**12 hours lab, 4 units  
Grade Only**

*Prerequisite:* Fermentation 101 with a grade of "C" or better, or equivalent and Chemistry 111, and 111L, each with a grade of "C" or better, or equivalent or Chemistry 152 and 152L, each with a grade of "C" or better, or equivalent, and Business 115, Mathematics 119 or Mathematics 116, each with a grade of "C" or better, or equivalent.

*Advisory:* Hospitality 102 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Following state licensing regulations for tasting, students enrolled in the course must be 18 years or older.

The course focuses on wine production through the eyes of a beverage maker, emphasizing laboratory processes and procedures. Students will test, critique and evaluate best practices in wine making. This course is designed for students in the Fermentation Management program. (FT) AA/AS; CSU.

### 160 Retail and Marketing Laboratory

**12 hours lab, 4 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Fermentation 140 or 150, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Due to state licensing regulations and the fact that tasting is a vital component of this course, students enrolled in the course must be 18 years or older.

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

This course engages the student into marketing and operating a coffee retail store and tasting room. Student choose, roast, package and sell coffee through this lab. Students work in a team environment to drive creativity and business as it relates to the lab instruction with the goal of a profitable revenue center. This course is designed for students enrolled in the Fermentation Management program. (FT) AA/AS; CSU.

## French (FREN)

### 101 First Course in French

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for French 100. This course is a first semester course in French and is 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. This course is designed for students majoring in French and all students interested in the French language. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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 second semester course in French 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. This course is designed for students majoring in French and all students interested in the French language. (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 with a grade of "C" or better, or equivalent or three years of high school French. 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 with a grade of "C" or better, or equivalent or four years of high school French. 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 Conversation and Composition in 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.

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. (FT) AA/AS; CSU; UC.

**211 Conversation and Composition 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. (FT) AA/AS; CSU; UC.

**Garden Design**

(See Architecture page 328)

**Geographic Information Systems (GISG)**

**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 Milestone M50.

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is an introduction to Geographic Information Systems (GIS). Emphasis is placed on the fundamental concepts of GIS. Topics include an overview of cartography, remote sensing, and global positioning systems (GPS) as well as GIS data sources, implementation steps, spatial analysis, and applications in government and business. Students are provided the hands-on experience required to visualize information and identify spatial patterns. This course is designed for all students interested in GIS and for professionals who want to know how to use GIS to better understand and analyze geographic data in their field. (FT) AA/AS; CSU; UC; C-ID GEOG 155.

**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, each with a grade of "C" or better, or equivalent; Computer Business Technology 94 or Computer Business Technology 101 and Computer Business Technology 114, each with a grade of "C" or better, or equivalent. This course is a practical study of Geographic Information Systems (GIS). Emphasis is placed on the use of ArcGIS software to map, analyze, and model geographic information relevant to fields such as forestry, economics, cartography, city planning, and health. Topics include map making, GIS data creation and management, and map projections and coordinate systems. This course is designed for students majoring in geographic information systems and professionals in the field who want to update their skills. (FT) AA/AS; CSU; C-ID GEOG 155.

**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 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.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

## 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. This course teaches intermediate geographic information systems (GIS) concepts and spatial analysis techniques, focusing on raster data and surfaces. 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 GIS surfaces. 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 working with raster data for both 2D and 3D surfaces. (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. This course introduces students to advanced topics, techniques, and applications of geographic information systems (GIS) spatial analyses and customizations. Emphasis is placed on using advanced GIS software for spatial analysis, visualization, interpretation, and statistics. Students use real-world data and apply one or more advanced applications to class project analyses to evaluate GIS analysis as a tool in the decision-making process. Students gain a knowledge of, and experience in using, advanced software applications. More advanced class projects may incorporate scripting and 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**

*Prerequisite:* Geographic Information Systems 111 with a grade of "C" or better, or equivalent. This course 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 spatial databases. 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, and Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50.

*Limitation on Enrollment:* This course is not open to students with previous credit for Geographic Information Systems 130.

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 Geographic Information Systems 130, each with a grade of "C" or better, or equivalent; Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50.

*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. (FT) AA/AS; CSU.

## 270 Geographic Information Systems Work Experience

**60 - 300 hours other, 1-4 units  
Grade Only**

*Prerequisite:* Geographic Information Systems 111 with a grade of "C" or better, or equivalent. This course is a directed field study where students apply classroom instruction to real world Geographic Information Systems (GIS) projects in the community. Students arrange for faculty and department chair approval prior to enrolling in work experience. Students are supervised by a college faculty member while participating in a short-term work experience/ internship program in a business or government agency that uses GIS. Work experience students meet periodically with their assigned faculty member, complete interim reports and present a final report. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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**

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. It also addresses environmental issues in geography and sustainability. This course is intended for social science majors or anyone seeking an understanding of the Earth's physical processes and mechanisms. (FT) AA/AS; CSU; UC; C-ID GEOG 110.

### 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.

This course requires practical observations and applications of the geographic grid, atlases and topographic maps, weather and climate, natural vegetation and soils, and landforms. This includes exercises in remote sensing and computer tools for data analysis, including Google Earth and Geographic Information Systems (GIS). This course is designed for students interested in geology or Earth science. (FT) AA/AS; CSU; UC; C-ID GEOG 111.

### 102 Cultural Geography

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent. This course is an introduction to thematic cultural geography. Emphasis is placed on population, race, language, religion, settlement patterns, political organization, economic activities, industry, and the regional distribution of these elements. This course is for students interested in thematic cultural geography or Social Science majors. (FT) AA/AS; CSU; UC; C-ID GEOG 120.

### 104 World Regional Geography

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent. This course is a survey of the world's major geographical regions, including Europe, North America, Latin America, Africa, Australia, Oceania, and South, East, and Southeast Asia. Emphasis is placed on the historical, environmental, cultural, economic, and technological factors that impact these geographical areas. This course is intended for students majoring in Geography and all students interested in world geography. (FT) AA/AS; CSU; UC; C-ID GEOG 125.

### 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.

(FT) = A field trip may be required for this course.  
 AA/AS = Associate Degree Applicable  
 CSU = California State University Applicable  
 UC = University of California Applicable  
 Milestone formerly referred to as Skill Level

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 a permission number from instructor for registration.

For students who wish to study special problems. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), 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 Physical Geology

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Concurrent enrollment in Geology 101 with a grade of “C” or better, or equivalent.

This course is an introduction to the science of the earth, the materials of which it is composed, and the processes that are acting upon it. Topics include plate tectonics and Earth’s internal structure; the formation and classification of minerals and rocks; geologic structures; and geologic processes of the earth’s surface and subsurface. This course is intended for students with a general interest in the geological sciences as well as those majoring in geology, earth science, or geological engineering. (FT) AA/AS; CSU; UC; C-ID GEOL 100.

### 101 Physical 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.

This laboratory course is a practical study of mineral and rock identification; landforms; topographic/geologic map interpretation; and geologic structures. It is intended for students with a general interest in the geological sciences as well as those majoring in geology, earth science, or geological engineering. (FT) AA/AS; CSU; UC; C-ID GEOL 100L.

### 104 Earth Science

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

This course is a survey of Earth’s major physical systems, including the lithosphere, hydrosphere, atmosphere, and Earth’s place in the solar system. Emphasis is placed on a synthesis of pertinent topics in geology, physical geography, oceanography, meteorology, and astronomy. This course is intended for those with a general interest in the Earth sciences. (FT) AA/AS; CSU; UC; C-ID GEOL 120.

### 111 The Earth Through Time

**3 hours lecture, 3 hours lab, 4 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, each with a grade of “C” or better, or equivalent; Geology 100 or Geology 104, each with a grade of “C” or better, or equivalent.

This course covers the principles of historical geology. Topics include the origin and evolution of Earth and its biosphere, plate tectonics, stratigraphy, paleontology, and geologic dating. This course is intended for students with a general interest in geoscience, as well as those majoring in geology, earth science, or geological engineering. (FT) AA/AS; CSU; UC; C-ID GEOL 111.

### 120 Earth Science Laboratory

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in Geology 104 with a grade of “C” or better, or equivalent.

This is a laboratory course related to the essentials of Earth Science including the geosphere, atmosphere, hydrosphere and Earth’s place in the solar system. This course focuses on the physical and chemical systems of the Earth such as the tectonic cycle, rock



cycle, hydrologic cycle, weather, and climate. This course is designed for teacher education students and anyone with a general interest in Earth Science. (FT) AA/AS; CSU; UC; C-ID GEOL 120L.

**130 Field Geology of San Diego County**  
**3 hours lecture, 3 hours lab, 4 units**  
**Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent. Geology 100, 101, 104, 120 or Oceanography 101, each with a grade of "C" or better, or equivalent.

This course explores the geologic history and plate tectonic evolution of San Diego County. Emphasis is placed on the geology of various regions, including the coastal plain, Peninsular Ranges, and Salton Trough. Through lectures, laboratory activities, and field trips, students will gain a deeper understanding of the processes that have shaped these areas. Topics include plate tectonic theory, regional geology, rocks and minerals, map and compass work, geo-spatial data collection, and geologic report writing. This course is intended for those with an interest in field geology. (FT) AA/AS; CSU; UC.

**290 Independent Study**  
**3 - 9 hours other, 1-3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Geology 100 and Geology 101, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Obtain permission number from Instructor.

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of geology. It 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. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## German (GERM)

**101 Health and Lifestyle**  
**3 hours lecture, 3 units**  
**Grade Only**

This course covers aspects of mental, emotional, social, environmental, spiritual, and physical health. Emphasis is placed on knowledge for developing the attitude, understanding, and practice of a preventive lifestyle for healthy living and optimal wellness. Topics 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. This course is intended for all students seeking a healthy lifestyle as well as those pursuing a teaching credential. It satisfies the State of California teaching credential Health Education requirement. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**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 interactive course is the second in the German language series. Students use increasingly complex German language structures to speak, listen, read, and write in cultural context at the novice-high level. This course is intended for all students interested in gaining proficiency in the German language for academic purposes and/or personal enrichment. (FT) AA/AS; CSU; UC.

(FT) = A field trip may be required for this course.  
 AA/AS = Associate Degree Applicable  
 CSU = California State University Applicable  
 UC = University of California Applicable  
 Milestone formerly referred to as Skill Level

**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 previous credit for German 200. This interactive course is the third in the German language series. Students use increasingly complex language structures and vocabulary to develop the functional competence required to communicate beyond survival needs and to discuss and express opinions on abstract topics related to the arts, lifestyle, linguistics, and literature at the intermediate level. This course is intended for students majoring in German and anyone interested in gaining proficiency in the German language for academic purposes and /or personal enrichment. (FT) AA/AS; CSU; UC.

**Health Education (HEAL)**

**101 Health and Lifestyle****3 hours lecture, 3 units****Grade Only**

This course covers aspects of mental, emotional, social, environmental, spiritual, and physical health. Emphasis is placed on knowledge for developing the attitude, understanding, and practice of a preventive lifestyle for healthy living and optimal wellness. Topics 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. This course is intended for all students seeking a healthy lifestyle as well as those pursuing a teaching credential. It satisfies the State of California teaching credential Health Education requirement. (FT) AA/AS; CSU; UC.

**103 Introduction to Public Health****3 hours lecture, 3 units****Grade Only**

This course introduces the concepts, terminology, and functions of public health professions and institutions. Various public health professions and agencies will be examined, as well as the role of public health professionals within the overall health care system. Public health applications of

epidemiology, disease prevention, and health promotion will be analyzed. Infectious diseases, chronic diseases, and mental illness will be addressed with respect to epidemiology, prevention, and promotion. The social determinants of health and their impact on health disparities will be covered with respect to environmental health, global health, and healthcare policy and management. This course is intended for students in the Health and Wellness Coaching Program and for students interested in Public Health. (FT) AA/AS; CSU.

**104 Public Health and Social Justice****3 hours lecture, 3 units****Grade Only**

This course provides an introduction to the health inequities in the United States and other nations that stem from unequal living, social, and economic conditions. Students will learn and synthesize information concerning the impact of the social determinants of health including, education, socioeconomic status, race, sexual orientation, disability, and gender. The roles of public health, government, and private sector policies on health outcomes will be compared and contrasted. Students will explore opportunities for health promotion and advocacy in the local community. This course is intended for students in the Health and Wellness Program and those interested in Public Health. (FT) AA/AS; CSU.

**107 Lifestyle Medicine for Health and Wellness****3 hours lecture, 3 units****Grade Only**

This course provides the science and application behind healthy lifestyle interventions for the prevention and treatment of chronic, lifestyle-related diseases such as cardiovascular disease, diabetes, cancer, and other chronic conditions. Lifestyle medicine connects the science of physical activity, nutrition, stress resiliency, sleep hygiene, and behavior change to the advancement of total person mental, emotional, and physical wellbeing. This course offers students the evidence-based knowledge and practical strategies to instill healthy lifestyle behaviors in clients and patients. This course is intended for students completing certification in the Health and Wellness Coaching Program. (FT) AA/AS; CSU.

**131 Emergency Medical Response****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

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) Guidelines. Students successfully completing this course are eligible to test for 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. This course is also of interest to those students that wish to receive an ADT in Kinesiology. (FT) AA/AS; CSU; UC; C-ID KIN 101.

**195 Health Education For Teachers****2 hours lecture, 2 units****Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Health Education for Teachers 190.

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, sexually transmitted diseases, illicit substance abuse, alcohol and nicotine use and misuse. This course satisfies the State of California Health Education requirement for the K-12 Teaching Credential. This course is intended for prospective K-12 teachers. (FT) AA/AS; CSU.

**290 Independent Study****3 - 9 hours other, 1-3 units****Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Obtain Permission Number from Instructor.

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of health education. It 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. (FT) AA/AS; CSU.

*This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.*

**Health Information Management  
(HIMS)**

**405 Foundations in Health Information Management****4 hours lecture, 4 units****Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course provides an advanced level perspective on topics relevant to the health information management (HIM) profession. The concepts covered in this course include an overview of emerging issues such as HIM systems management, clinical classification systems, governance and stewardship, data quality and management, health information exchange, electronic health records, revenue cycle management, compliance and risk management. This course is designed for health information management majors. (FT)

**408 Ethics in Healthcare Administration****3 hours lecture, 3 units****Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course provides a comprehensive foundation for ethics in healthcare management and administration. Students will gain knowledge of the theory and concepts of ethics and its application to health information and healthcare administration for them to be able to model sound decision making and ethical practice. Ethics related to the United

(FT) = A field trip may be required for this course.  
 AA/AS = Associate Degree Applicable  
 CSU = California State University Applicable  
 UC = University of California Applicable  
 Milestone formerly referred to as Skill Level

States healthcare system around patient access, quality and cost will be addressed. This course is designed for health information management majors. (FT)

#### **410 Healthcare Informatics**

**4 hours lecture, 4 units  
Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course is designed to bring together healthcare generated information and technology for the purpose of improving quality of care in a cost-effective manner. The primary concepts covered include data standards, data management, health information exchange, clinical decision support, privacy and security issues involving protected health information, emerging trends, data governance, and new technologies. This course is designed for health information management majors. (FT)

#### **415 Healthcare Analytics**

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course focuses on the analysis of data for the purpose of generating information resulting in actionable decisions. The primary concepts covered in this course include advanced health care statistics, data analysis, mining and exploration. Microsoft Excel is utilized to analyze data and information related to clinical and business systems in healthcare. This course is designed for health information majors. (FT)

#### **418 Topics in Legal and Compliance for Healthcare Professionals**

**4 hours lecture, 4 units  
Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course focuses on the laws and regulations applicable to healthcare compliance. Topics include federal and state law enforcement and reporting requirements, risk management, audit trails, fraud detection, ethical and legal requirements related to coding, personal health record (PHR), analysis of privacy, security, and confidentiality policies and procedures. This course is designed for health information management majors. (FT)

#### **420 Principles of Finance for Health Information Management**

**3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course covers the fundamentals of financial management in the healthcare setting. The primary concepts covered in this course include capital, operating and/or project budgets using basic accounting principles, performing cost-benefit analysis for resource planning and allocation, evaluating vendor contracts, and negotiation skills. This course is designed for health information management majors. (FT)

#### **425 Revenue Cycle Management**

**3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course covers advanced topics in healthcare revenue cycle management. Concepts covered in this course include healthcare classification systems and terminologies, chargemaster management, revenue cycle and audit processes, utilization and resource management, and application and analysis of the relationship between clinical code assignment and reimbursement. This course is designed for health information management majors. (FT)

#### **430 Human Resources Management in Healthcare**

**4 hours lecture, 4 units  
Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course examines the complexities and multiple issues and best practices involved in human resources management in healthcare organizations. The primary concepts covered in this course include managing people in all aspects of their work, recruiting, interviewing, and hiring, compensation and benefits, motivational strategies, performance appraisals, promotions, and terminations. This course is designed for health information management majors. (FT)

**435 Project Management in the Healthcare Setting****3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course is designed as a high-level overview of project management utilized in healthcare settings. The primary concepts in this course include project management techniques such as project selection, management, organization, planning, conflict resolution, negotiation, budgeting, scheduling, change management, business process reengineering, and termination of the project. This course is designed for health information management majors. (FT)

**440 Leadership and Strategic Management for Healthcare Professionals****4 hours lecture, 4 units  
Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course examines the theory and practice of leadership, strategic management, and change management in healthcare settings. The primary concepts covered in this course include an overview of emerging issues such as business planning, organizational change, innovation, strategic planning, leadership thinking and goals, change implementation and strategies for successful transitions. This course is designed for health information management majors. (FT)

**445 Healthcare Information Systems Analysis and Design****3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Limitation on Enrollment:* Must be admitted to the Health Information Management program. This course is designed to prepare students in the planning, analysis, design, and implementation of healthcare computer-based information systems. The concepts include system requirements, systems development lifecycle, system architecture including database design, data warehousing, workflow concepts, and systems performance management. This course is designed for health information management majors. (FT)

**455 Applied Research Project in Health Information Management****3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is the capstone for the health information management baccalaureate degree. This course integrates the theoretical and technical content of the health information management program courses. Ethical considerations for health information managers and information management support for biomedical research are also discussed. Concepts are integrated and applied through the analysis of case studies and the completion of a capstone project, designed by the student or instructor, supporting a local HIM community of interest. This course is designed for Health Information Management majors. (FT)

**460 Advanced Directed Clinical Placement****70 – 75 hours other, 1 units  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course provides supervised onsite professional practice experience (PPE) for Health Information Management students. This course integrates theory and professional practice in health information management. Emphasis is placed on applying management theories to actual work settings, practice of professional behavior, ethics, and self reflection including career goals. Project topics will support a local HIM community of interest and will be designed by the student, instructor, and the PPE site manager. Note: This course may require student travel. To meet course requirements the student may be required to be available during normal business hours (i.e. 8:00 am to 5:00 pm) for site visits, conduction of professional interviews, and data gathering. This course is designed for Health Information Management majors. (FT)

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

## Health Information Technology (HEIT)

### 110 Introduction to Health Information 4 hours lecture, 4 units Grade Only

This course is an introduction to the profession of Health Information Technology. 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, revenue cycle, and fraud and abuse compliance. Data governance, management, quality, analytics, and informatics as well as privacy and security regulations are discussed. The course is for Health Information Technology students. (FT)AA/AS; CSU.

### 130 Basic Pharmacology 1 hour lecture, 1 unit Grade Only

*Corequisite:* Completion of or concurrent enrollment in Medical Assisting 115 with a grade of "C" or better, or equivalent.

This course is an introduction to pharmacology. Topics include pharmacology terminology, drug forms, routes of administration, drug categories, and mechanisms of drug action. This course is intended for students in the Health Information Technology Program and healthcare professionals who want to refresh their working knowledge of basic pharmacology. (FT) AA/AS; CSU.

### 135 Computer Basics for Health Information 1 hour lecture, 1 unit Grade Only

*Limitation on Enrollment:* This course is not open to students with previous credit for Health Information Technology 75.

This course is an introduction to computer systems used in healthcare and health information management (HIM). Emphasis is placed on basic computer and networking technologies as well as on specialized software and electronic health record (EHR) applications. This course is designed for students interested in the use of computers in the health information technology field. (FT) AA/AS; CSU.

### 140 Fundamentals of Law for Health Information

3 hours lecture, 3 units  
Grade Only

*Advisory:* English 101 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 Health Information Technology 205.

This course covers the legal aspects of health information management, including the American legal system, civil procedure, evidence, tort law, corporate and contract law. State, Federal and other agency rules regarding record access, retention, release of information, processing subpoenas, and confidentiality, such as HIPAA (Health Information Portability & Accountability Act) privacy and security rules, are also included. Other topics include required reporting, risk management, quality improvement, corporate compliance, medical staff, and workplace law. This course is intended for health information technology students. (FT) AA/AS; CSU.

### 155 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.

*Limitation on Enrollment:* This course is not open to students with previous credit for Health Information Technology 155C.

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 Milestone 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.

**160 Healthcare Reimbursement****2 hours lecture, 2 units  
Grade Only**

This course is an introduction to healthcare reimbursement and revenue cycle. The topics covered include reimbursement methodologies, clinical coding and compliance, voluntary and government sponsored insurance plans, managed care plans, revenue cycle management and value-based purchasing. Medicare and Medicaid prospective payment systems are also addressed in acute, post-acute, ambulatory, hospice and long term care settings. This course is for Health Information Technology students. (FT) AA/AS; CSU.

**214 ICD Coding I****2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Medical Assisting 115 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program. Course not open to students with a C or better: HEIT 155A (if taken after 2011).

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.

**215 ICD Coding II****2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Health Information Technology 214 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Course not open to students with a C or better: HEIT 155B (if taken after 2011).

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-Procedure Coding System (ICD-PCS), the most commonly used classification system in the US for coding and reporting 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.

**220 Principles of Leadership****2 hours lecture, 2 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 260.

This course introduces the basic concepts of leadership including team leadership, change management, training and developing employee. Other topics include using enterprise-wide information assets in support of organizational strategies and objectives, company culture and diversity in the workplace. This course is for Health Information Technology students. (FT) AA/AS; CSU.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**256 Statistics for Healthcare****3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Mathematics 92 or Mathematics 96, each with a grade of "C" or better, or equivalent or Milestone M50.

*Limitation on Enrollment:* Special admission - must be admitted to program.

This course is an introductory study of statistics for health information technology. Emphasis is placed on the basic principles of data collection, descriptive statistics, probability, confidence intervals, hypothesis testing, research methods, measures of central tendency and statistical analysis of hospital and non-acute facility health data. Calculation of Health Information Management department descriptive and inferential statistics are 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. This course is intended for students majoring in Health Information Technology or those interested in applied statistics. (FT) AA/AS; CSU.

**258 Healthcare Quality Management****3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is an introduction to quality and performance management and improvement, utilization review and risk management. The course includes the purpose, principles, historical development, assessment and analysis techniques, and application and program development strategies used in quality management and improvement, utilization review and risk management activities. It also includes the integration of performance improvement activities with the medical staff appointment and reappointment process. Regulatory and privacy requirements will also be addressed. The key concepts, background and statistical tools used in the continuous quality improvement process (CQI) are also provided. This course is for Health Information Technology students. (FT) AA/AS; CSU.

**266 Directed Clinical Practice A****7.5 hours other, 2.5 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 is not open to students with previous credit for Health Information Technology 261 or Health Information Technology 263.

This course provides the first of two professional practice experiences for students enrolled in the health information technician program and is designed to provide students with supervised onsite experience performing entry-level tasks in a health information department in an assigned affiliated healthcare organization. Students gain exposure to the organization and functions of a health information department. Experiences may include release of information, data collection and reporting, registries, and health record analysis and documentation requirements. AA/AS; CSU.

**267 Directed Clinical Practice B****7.5 hours other, 2.5 units  
Grade Only**

*Prerequisite:* Health Information Technology 266 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 Health Information Technology 262 or Health Information Technology 264.

This course provides the second of two professional practice experiences for students enrolled in the health information technician program and is designed to provide students with supervised onsite experience performing entry-level tasks in a health information department in an assigned affiliated healthcare organization. Students gain exposure to abstracting and coding, quality improvement functions, registries, and special projects in management and supervision. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 101 with a grade of "C" or better, or equivalent.

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 the eve of the Modern Era. Topics in social, intellectual, economic, and political history are covered. This course is intended for history majors and all students interested in 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 101 with a grade of "C" or better, or equivalent.

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 intended for history majors as well as anyone seeking a global historical perspective. (FT) AA/AS; CSU; UC; C-ID HIST 160.

### 105 Introduction to Western Civilization 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.

This course is an historical survey of Western Civilization from the early human communities through early modernism. The course is designed to introduce students to the ideas, attitudes, and institutions basic to Western Civilization through primary and secondary source material. This course is intended for students majoring in history as well as any student seeking a broad historical perspective. (FT) AA/AS; CSU; UC; C-ID HIST 170.

### 106 Introduction to Western Civilization 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.

This course is a historical survey of Western Civilization from early modernism to the present. Students are introduced to the ideas, attitudes, and institutions basic to Western Civilization. Topics include the political structures, social structures, forms of cultural expression, and patterns of change during key periods of Western history. This course is intended for history majors as well as any student seeking a broad historical perspective. (FT) AA/AS; CSU; UC; C-ID HIST 180.

### 109 History of the United States 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.

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. Concentrating on class, ethnicity/race, and gender, students are required to analyze a variety of primary and secondary sources, think critically, and write thesis-based essays. This course is intended for all students interested in United States history. (FT) AA/AS; CSU; UC.

### 110 History of the United States 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.

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. Concentrating on class, ethnicity/race, and gender, students are required to analyze a variety of primary and secondary sources, think critically, and write thesis-based essays. This course is intended for all students interested in United States history. (FT) AA/AS; CSU; UC.

**(FT)** = A field trip may be required for this course.

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**Milestone** formerly referred to as Skill Level

**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.

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 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 intended for students majoring in History and those 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.

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 intended for students majoring in History and those 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 101 with a grade of “C” or better, or equivalent.

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 all

students interested in Asian history and culture. (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 101 with a grade of “C” or better, or equivalent.

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. This course is intended for all students interested in Asian history and culture. (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 101 with a grade of “C” or better, or equivalent.

This course examines the global, national, and local forces that shaped the lives of Asian Pacific Islander Americans (APIA) from the 1850s to the present. Topics include labor, migration, and settlement of diverse APIA groups; national debates over legal, social, and economic inclusion and exclusion; American overseas expansion; racial and gender politics; family formation; pan-ethnicity; and California constitutionalism. This course is intended for all students interested in history, ethnic studies, and Asian American studies. (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.

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.

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.

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 101 with a grade of "C" or better, or equivalent.

This course covers the history of the United States from its colonial origins through the period of Reconstruction with a special emphasis on the history and role of women. Topics include the diverse contributions of women that 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 is intended for students interested in history or women's studies. (FT) AA/AS; CSU; UC.

**142 Women in United States History 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.

This course covers the history of the United States from Reconstruction to the present with a special emphasis on the history and role of women. Topics include the diverse peoples who influenced the history of the nation and its maturing economic, social and political institutions. This course requires students to analyze a variety of materials, think critically, and write thesis-based essays. It is intended for students interested in history or women's studies. (FT) AA/AS; CSU; UC.

**150 Native Americans in United States History 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.

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 Americans, 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. This course is designed for anyone interested in United States and Native American history. (FT) AA/AS; CSU; UC.

**151 Native Americans in United States History 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.

This course covers the history of the United States from the Civil War to the present, with an emphasis

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on Native Americans. The course demonstrates that assimilation was the basis for federal Indian policy during the late nineteenth and early twentieth centuries, and explains how self-determination and sovereignty replaced assimilation during the latter-twentieth century. Topics include the efforts to dismantle Indian trust land, Native American communal life, and indigenous cultures, termination of sovereign Indian nations, and current political tensions. Indigenous survival and revival in the latter twentieth century is a key emphasis. This course is designed for anyone interested in United States or Native American History. (FT) AA/AS; CSU; UC.

### 154 Ancient Egypt

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is a study of the history, geography, literature, art, religion, and culture of ancient Egypt from the origins of Egyptian civilization to the culture's eventual decline under the dominance of foreign powers. The course is designed for all students with an interest in Egypt, the Mediterranean, and the Middle East in ancient times. (FT) AA/AS; CSU; UC.

### 175 California History

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

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. (FT) AA/AS; CSU; UC.

### 205 Methodology and Practice in History

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

This seminar in History builds students' critical-thinking, writing, and research skills in preparation for upper-division courses at four-year colleges

and universities. Although the course emphasizes historiography and historical methods, students majoring in disciplines other than History will benefit from such topics as but not limited to: objectivity; quantitative methodology; the roles of sex, gender, race and ethnicity in history; demographics, disease and public health in history; economic and technological influences on history; social and cultural history; environmental history; and the proper use and interpretation of primary sources. This course is intended for students who are interested in History while also wanting to improve critical-thinking and writing skills that can be applied across the curriculum. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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**

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 Accounting**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Hospitality 101 with a grade of "C" or better, or equivalent.

*Advisory:* Mathematics 92 with a grade of "C" or better, or equivalent or Milestone M40 and Computer Business Technology 140, each with a grade of "C" or better, or equivalent.

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 encountered 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 and Hotel Management students. (FT) AA/AS; CSU.

**111 Food and Beverage Management**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* Completion of or concurrent enrollment in Hospitality 101 and Hospitality 102, each with a grade of "C" or better, or equivalent.

This course is designed to provide students with an understanding of food operations in the hospitality 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 and pricing strategies and performance indicators. Students analyze service standard operating procedures, types of service, food and beverage sourcing and beverage management. Sanitation and safety issues are presented along with facility design and equipment. Competitive trends are determined. Financial acumen are developed. This course is intended for all students in Event and Hotel Management, and is optional for Culinary Arts / Culinary Management students. (FT) AA/AS; CSU.

**112 Lodging and Resort 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.

*Advisory:* Hospitality 102 with a grade of "C" or better, or equivalent and Computer Business Technology 140, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Hospitality 110 and 151.

This course is an overview of the management responsibilities of hotel operations. 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. Details are presented in planning, development and financial investment management that deal with the unique nature of resort business. 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 hotel management are discussed, along with performance indicators. The course is designed for students interested in the hospitality industry. (FT) AA/AS; CSU.

**115 Strategic Leadership in Hospitality**  
**3 hours lecture, 3 units**  
**Grade Only**

*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 and health care industry. It covers the organization and

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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 students seeking the DSS certification. (FT) AA/AS; CSU.

**121 Event & Hospitality Marketing & Sales**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* 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 Hospitality 120 and Hospitality 170.

This course provides students with the knowledge of marketing and themes uniquely related to the hospitality and tourism industry. The course explores such topics as identifying target markets, marketing service and customer satisfaction, advertising and media planning, event promotion and sponsorship, merchandising, and personal sales. Students will develop a marketing plan for a topic/event/ facility of their choice in the hospitality and tourism industry. This course is designed for students enrolled in the Hospitality program. (FT) AA/AS; CSU.

**130 Hospitality Law**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* 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 115.

This course introduces the student to the laws and regulations that influence business and management decisions applicable to the ownership and operation of 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 and those majoring in Hotel Management. (FT) AA/AS; CSU.

**152 Hospitality Human Resources**  
**2 hours lecture, 2 units**  
**Grade Only**

*Advisory:* Hospitality 101 with a grade of “C” or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in Hospitality 115 with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Hospitality 150. 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; as are collective bargaining agreements and unions. This course is designed for Hospitality students and those interested in a career in hospitality and tourism. (FT) AA/AS; CSU.

**162 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:* Hospitality 102 and Hospitality 121, each with a grade of “C” or better, or equivalent

*Limitation on Enrollment:* This course is not open to students with previous credit for Hospitality 160 and 175.

This course covers planning events such as meetings, conferences, convention and trade shows within the parameters of that segment of the business and tourism industries. Students are introduced to the differences between types of events, their scale, target markets, purposes, venues and logistics. This course focuses on meeting and convention management from both the perspective of the planner and the venue. The process of selling space, functions and events to groups, and the methods for servicing group business after the sale are outlined. Also addressed are the steps that are taken to plan, organize, and produce such activities from an

emphasis on marketing. This course is for students enrolled in the Hospitality program. (FT) AA/AS; CSU.

### 166 Special Event Management and Consulting

**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:* Hospitality 102 and 121, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Hospitality 165 and 186.

This course covers the theoretical and practical foundation for special events management and event production. Emphasis is placed on research, design, planning, budgeting and evaluation of events. The course also identifies the knowledge and skills needed to operate a business related to social life-cycle events and wedding consulting. Topics include competencies required for successful events, including parades, festivals, corporate, meeting, sporting, wedding, social, birthdays, non-profit and custom-designed celebrations. This course is designed for students enrolled in the Hospitality program. (FT) AA/AS; CSU.

### 185 Event & Meeting Facilities Management

**2 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Hospitality 101 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Hospitality 162 or 166, each with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in Hospitality 121 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 highlights meeting and event facilities and venues and their methods of operation. Included area: public assembly facilities, arenas, stadiums, convention centers, performing arts centers and amphitheatres. Logistical considerations of booking events, contract negotiations, ticket sales, maintenance and production are identified. 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 enrolled in the Hospitality program. (FT) AA/AS; CSU.

### 190 Hospitality Capstone

**2 hours lecture, 2 units  
Grade Only**

This course provides students with the knowledge of marketing and themes uniquely related to the hospitality and tourism industry. The course explores such topics as identifying target markets, marketing service and customer satisfaction, advertising and media planning, event promotion and sponsorship, merchandising, and personal sales. Students will develop a marketing plan for a topic/event/facility of their choice in the hospitality and tourism industry. This course is designed for students enrolled in the Hospitality program. (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 101 with a grade of "C" or better, or equivalent.

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 the Upper Paleolithic (ca. 40,000 BCE) to approximately 1400 CE. 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.

This interdisciplinary course is designed for students interested in meeting general education requirements in humanities. The course develops

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**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

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 civilizations. (FT) AA/AS; CSU; UC.

## HUMANITIES–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.

This course provides a survey of the New Testament period (First Century C.E.). Emphasis is placed on the history and culture of the New Testament period, the methods of critical analysis of Biblical materials, and the content of the New Testament. The impact of the New Testament on western culture is also examined. This course is intended for 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 101 or English 105 with a grade of "C" or better, or equivalent.

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. (FT) 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.

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: Communication Studies 180 and Music 125.)*

### 118 Eastern Humanities 3 hours lecture, 3 units Letter Grade or Pass/No Pass Option

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This interdisciplinary course develops students' understanding and appreciation of the arts, literature, philosophy, and religions of Asia—from Prehistory to the Present. It is designed for students interested in Asian civilizations, the Humanities in general, and related disciplines. (FT) AA/AS; CSU; UC.

### 119 Western Humanities 3 hours lecture, 3 units Letter Grade or Pass/No Pass Option

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This interdisciplinary course develops students' understanding and appreciation of the arts, literature, philosophy, and religions of Europe, Africa, and the Americas—from Prehistory to the Present. It is designed for students interested in European, African, and American civilizations; the Humanities in general; and related disciplines. (FT) AA/AS; CSU; UC.

### 201 Mythology 3 hours lecture, 3 units Letter Grade or Pass/No Pass Option

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This interdisciplinary 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 is meant for students in the Humanities and for those interested in the myths of the world. (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 101 with a grade of "C" or better, or equivalent.

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.

**210 Women in Religion and Myth**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This interdisciplinary course explores ancient and modern beliefs in female divinities; studies the status of women in religions worldwide and throughout history; and analyzes the impact of religious ritual and doctrine on the lives of women, both past and present. It is designed for students interested in Women's Studies, Religious Studies, Humanities, and related disciplines. (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 a permission number from instructor for registration.

For students who evidence ability and interest in pursuing special studies in Humanities. AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Computer Business Technology 127 with a grade of "C" or better, or equivalent.

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**  
**1 hour lecture, 6 hours lab, 3 units**  
**Grade Only**

*Prerequisite:* Interior Design 101, Interior Design 112B, and Interior Design 115, each with a grade of "C" or better, or equivalent.

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 interior design majors. (FT) AA/AS; CSU.

**110 Materials and Resources**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

*Prerequisite:* Interior Design 101, Interior Design 112A, Interior Design 115, each with a grade of "C" or better, or equivalent.

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

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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 students majoring in interior design. (FT) AA/AS; CSU.

### **112A Visual Communication I**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

This course is an introduction to interior design drawing and drafting. Emphasis is placed on architectural floor plans, building sections, interior elevations and detailing, lettering, and dimensioning for residential and commercial projects. This course is intended for interior design majors. (FT) AA/AS; CSU.

### **112B Visual Communication II**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Interior Design 112A with a grade of "C" or better, or equivalent.

*Advisory:* Computer Business Technology 127 with a grade of "C" or better, or equivalent.

This course is a study of drawing techniques for interiors using both manual and computer aided design. Emphasis is placed on three dimensional (3D) modeling and perspectives, floor plans, and visual presentation drawings using industry standard software, such as Sketch-Up Pro, Photoshop and Adobe InDesign. Quick sketching is also incorporated. This course is intended 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 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30; Computer Business Technology 127 with a grade of "C" or better, or equivalent.

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 majors and students interested in interior design. (FT) AA/AS; CSU.

### **120 Revit 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.

This course is a practical study of computer aided interior design using Revit. Emphasis is placed on the creation of two- and three-dimensional drawings and renderings to industry standards. This course is intended for interior design majors and for practicing professionals. (FT) AA/AS; CSU.

### **125 History of Furniture and Interiors**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent; Computer Business Technology 127 with a grade of "C" or better, or equivalent.

This course is a survey of the principle styles of furniture, interiors, and related decorative arts from antiquity to the present. This course is designed for interior design majors and any student interested in the history of interiors. (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 with a grade of "C" or better, or equivalent.

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 for residential and commercial design. This course is intended for Interior Design majors. (FT) AA/AS; CSU.

**135 AutoCAD for Interiors****2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* Interior Design 112A and Computer Business Technology 127, each with a grade of "C" or better, or equivalent.

This course is a practical study of computer-aided drafting for interior design application using AutoCAD. Emphasis is placed on the creation of 2D drawings per industry standards. This course is intended for Interior Design majors and practicing designers to maintain industry currency. (FT) AA/AS; CSU.

**145 Interior Building Systems and Codes****3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Interior Design 101 and Interior Design 112A, each with a grade of "C" or better, or equivalent.

*Advisory:* English 101 with a grade of "C" or better, or equivalent; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

This course is an overview of systems used in construction as it relates to the planning of interior environments. The course covers current building components such as floors, ceilings, and doors, as well as systems developed for providing health, safety, and comfort (plumbing; heating, ventilation and cooling; lighting; and acoustics). Codes, regulations, standards (California and federal) and sustainable principles that impact residential and commercial interior environments are emphasized. This course is designed for students majoring in interior design. (FT) AA/AS; CSU.

**200 Kitchen and Bath Design****2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Interior Design 105, Interior Design 110, and Interior Design 145, each with a grade of "C" or better, or equivalent.

This course is a study of 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 designed for students majoring in Interior Design. (FT) AA/AS; CSU.

**205 Non-Residential Space Planning****1 hour lecture, 6 hours lab, 3 units  
Grade Only**

*Prerequisite:* Interior Design 105, Interior Design 110, Interior Design 145, and Interior Design 120 or Interior Design 135, each with a grade of "C" or better, or equivalent.

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 112B and Interior Design 115, each with a grade of "C" or better, or equivalent.

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.

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.

**(FT)** = A field trip may be required for this course.

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**270 Work Experience****60 - 300 hours other, 1-4 units  
Grade Only**

*Prerequisite:* Interior Design 101 with a grade of "C" or better, or equivalent.

A program of on-the-job learning experiences for students employed in a job related to their major. 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 (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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**

*Limitation on Enrollment:* This course is not open to students with previous credit for Italian 100. This is the first course in the Italian language sequence. In this interactive course, students use basic vocabulary, grammatical structures and idiomatic phrases to speak, listen, read and write in Italian at the novice level. Emphasis is placed on daily life activities as well as Italian history, culture and geography. This course is intended for all students interested in Italian language and culture. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**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 or two years of high school Italian or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Italian 100. This is the second course in the Italian language sequence. In this interactive course, students use intermediate to advanced level vocabulary, grammatical structures and tenses to analyze and to express opinions related to a variety of topics,

including Italian culture, politics, the environment, and daily life. This course is intended for all students interested in Italian language and culture. Emphasis is placed on daily life activities as well as Italian history, culture and geography. This course is intended for all students interested in Italian language and culture. (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.

This is the third course in the Italian language sequence. In this interactive course, students use intermediate to advanced level vocabulary, grammatical structures and tenses to analyze and to express opinions related to a variety of topics, including Italian culture, politics, the environment, and daily life. This course is intended for all students interested in Italian language and culture. (FT) AA/AS; CSU; UC.

**Japanese (JAPN)****101 First Course in Japanese****5 hours lecture, 5 units  
Letter Grade or Pass/No Pass Option**

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**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. The course is intended for students who

have completed previous coursework in 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.

## Journalism (JOUR)

### 200 Introduction to Newswriting and Reporting

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

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/event coverage, deadline writing, and use of AP style. This course is designed for journalism majors and is intended for students interested in learning to write for student media and other publications. (FT) AA/AS; CSU; C-ID JOUR 110.

### 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.

*Limitation on Enrollment:* This course is not open to students with previous credit for Radio and Television 200.

This course is a survey of mass communication in the United States. Emphasis is placed on the historical and contemporary impact of the media on society and culture as well as on the ways that social institutions shape the media. Students examine

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**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

media related issues as they relate to social and cultural constructs, economics, technology, law and ethics, and social issues. This course is designed for journalism majors and all students interested in the relationship between mass media and society. (FT) AA/AS; CSU; UC; C-ID JOUR 100.

### **204 Social Media in the Digital Age**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

This course explores social media from a content perspective. Topics will include learning the fundamentals of social media, the theories behind writing for it, as well as the ethics and standards of information generated. The emphasis of this course is on effectively and ethically creating and consuming information via social networks in an increasingly connected and rapidly changing global environment. This course is designed for journalism majors or students interested in social media. (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 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; C-ID JOUR 120.

### **210A Newspaper Production 1**

**6–9 hours lab, 2-3 units  
Grade Only**

*Advisory:* Completion of or concurrent enrollment in: English 101 with a grade of “C” or better, or equivalent.

This course focuses on writing and producing student news publications using the student newspaper and its online version as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Students work primarily in one of the following areas: researching, writing, and editing articles for the

two publications; taking photographs and creating graphic illustrations; developing multimedia stories; or designing pages. Ethical and legal aspects of communication are also covered. This course is intended for students majoring in journalism and all students interested in working on student news publications. (FT) AA/AS; CSU; C-ID JOUR 130.

### **210B Newspaper Production 2**

**6–9 hours lab, 2-3 units  
Grade Only**

*Prerequisite:* Journalism 210A with a grade of “C” or better, or equivalent.

This course focuses on writing and producing student news publications at an intermediate level using the student newspaper and its online version as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Students work primarily in two of the following areas: researching, writing, and editing articles for the two publications; taking photographs and creating graphic illustrations; developing multimedia stories; or designing pages. Ethical and legal aspects of communication are also covered. This course is intended for students majoring in journalism and all students interested in working on student news publications. (FT) AA/AS; CSU; C-ID JOUR 131.

### **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 focuses on writing and producing student news publications at an intermediate-advanced level using the student newspaper and its online version as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Students work primarily in three of the following areas: researching, writing, and editing articles for the two publications; taking photographs and creating graphic illustrations; developing multimedia content; or designing pages. Ethical and legal aspects of communication are also covered. This course is intended for students majoring in journalism and all students interested in working on student news publications. (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 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.

This course evaluates public relations as a growing profession. The course looks at the principles, history and development, and professional practice of modern public relations. It investigates concepts of planning and executing effective communication strategies, including message design and distribution, for any organization. The use of social media, 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; C-ID JOUR 150.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 Milestone R50.

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. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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 Milestone R50.

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. (FT) AA/AS; CSU; UC.

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

**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. (FT) AA/AS; CSU; UC.

**Legal Administrative Assistant**

See Computer Business Technology (CBTE), page 370

**Library Science (LIBS)****101 Information Literacy and Research Skills  
1 hour lecture, 1 unit  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

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 to develop strategies for conducting research. This course is intended for students who wish to acquire research skills for academic, career, or personal use. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

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 strategies; and emerging technologies. Marketing strategies include product planning, development, pricing, distribution, and promotion. This course is intended for students majoring in business or others working in a business environment such as managers and supervisors. (FT) AA/AS; CSU.

**105 Professional Selling****3 hours lecture, 3 units  
Grade Only**

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 business or 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 Milestone R50 and W50.

This course is a study of the principles and practices of retailing. Topics include retail strategic 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**

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 business or 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 (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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**

This course is intended for students who have completed the math placement with a level of M30 and wish to improve their placement level; students who have successfully completed Prealgebra but need more review; or students who unsuccessfully attempted Beginning Algebra and need review of Prealgebra skills. The course consists 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 a Prealgebra prerequisite. This course will not replace a failing grade in Prealgebra. Not Applicable to Associate Degree.

**15B Elementary Algebra and Geometry Refresher****3 hours lab, 1 unit  
Pass/No Pass**

This course is intended for those students who have completed the math placement with a level of M30 and wish to improve their placement level; students who have successfully completed Beginning Algebra but need more review; or students who unsuccessfully attempted Intermediate Algebra and need review of Beginning Algebra and Geometry skills. The course consists 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 a Beginning Algebra prerequisite. This course will not replace a failing grade in Beginning Algebra. Not Applicable to Associate Degree.

**15C Intermediate Algebra and Geometry Refresher****3 hours lab, 1 unit  
Pass/No Pass**

This course is intended for those students who have completed the math placement with a level of M30 and wish to improve their placement level; students who have successfully completed Intermediate Algebra but need more review; or students who unsuccessfully attempted a transfer level math class and need review of Intermediate Algebra and Geometry skills. The course consists 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 an Intermediate Algebra prerequisite. This course will not replace a failing grade in Intermediate Algebra. Not Applicable to Associate Degree.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**15D Geometry Refresher****3 hours lab, 1 unit  
Pass/No Pass**

This course is intended for those students who have completed a high school geometry course or for those students who have completed Intermediate Algebra and Geometry and need to review geometric principles prior to taking Math for Elementary Teachers or Trigonometry. The course consists of personalized computer assisted instruction to refresh those concepts identified as needed for each student. (FT) Not Applicable to Associate Degree.

**15E Trigonometry Refresher****3 hours lab, 1 unit  
Pass/No Pass**

This course is intended for those students who have completed the math placement 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. The course consists of personalized computer assisted instruction to refresh those concepts identified as needed for each student. (FT) Not applicable to the Associate Degree.

**15F College Algebra Refresher****3 hours lab, 1 unit  
Pass/No Pass**

This course is intended for those students who have completed the math placement and need to review their College Algebra skills prior to taking a Calculus sequence. The course consists 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 a College Algebra prerequisite. Students wishing to challenge Pre-calculus must also show competence in Trigonometry. (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**

*Limitation on Enrollment:* This course is not open to students with previous credit for Math 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.

**44 Supervised Tutoring in Math****1 – 162 hours other, 0 units  
No Grade/0 Units**

This no grade, no credit course is used as an attendance tracking mechanism for students receiving tutoring in the Math Center. The course is designed to prepare students to succeed in the corequisite and subsequent subject matter courses. This course may be taken four times with a different corequisite subject matter course. College noncredit course.

**46 Elementary Algebra and Geometry***(Formerly Mathematics 95)***5 hours lecture, 5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

*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 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. It is intended for students preparing for higher-level geometry and algebra courses. (FT) Not Applicable to Associate Degree, basic skills.

## Associate Degree Courses

### 92 Applied Beginning and Intermediate Algebra

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Mathematics 265S or Mathematics 96 with a grade of "C" or better. This course emphasizes real world applications in the development of beginning and intermediate algebraic topics. Topics include a review of fractions, decimals and percents, as well as the development of linear, quadratic, rational, radical, exponential and logarithmic functions. This course is designed for those students whose major and transfer institution requires only statistics or math for liberal arts as the transfer level math course for the degree. (FT) AA/AS.

### 96 Intermediate Algebra and Geometry

**5 hours lecture, 5 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Mathematics 46 with a grade of "C" or better, or equivalent, or Milestone M30, or enrollment in Mathematics 96X (which pairs Mathematics 96 with support course Mathematics 15B).

Intermediate algebra and geometry is the second of a two-course 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, exponential and logarithmic functions, conic sections, sequences and series, and solid geometry. The course also includes application problems involving these topics. This course is intended for students preparing for transfer-level mathematics courses. (FT) AA/AS.

## 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 Milestone M40 or M50; or *Corequisite:* Students with Milestone M30 or above may enroll in Mathematics 104X (which pairs Mathematics 104 with support course Mathematics 15D).

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 or Mathematics 109, each with a grade of "C" or better or equivalent; or Milestone M40 or M50; or *Corequisite:* Students with Milestone M30 or above may enroll in Mathematics 116X (which pairs Mathematics 116 with support course Mathematics 15C).

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; modeling; and applications problems. Analytical reading and problem solving skills are required for success in this course. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 118 Math for the Liberal Arts Student

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 96 or Mathematics 92 or Mathematics 109 each with a grade of "C" or better, or equivalent, or Milestone M50 or M40. *Advisory:* English 101 with a grade of "C" or better, or equivalent.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

This course covers a selection of topics from logical reasoning, quantitative literacy, the history of mathematics, statistics, probability, number theory, problem-solving techniques, and applications of mathematics to the liberal arts curriculum. Emphasis is placed on the development of an understanding and life long appreciation for critical thinking and mathematical problem solving. This is a general education mathematics course designed for students majoring in the liberal arts. (FT) AA/AS; CSU.

**119 Elementary Statistics**

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 92 or Mathematics 96 or Mathematics 109, each with a grade of "C" or better, or equivalent; or Milestone M40 or M50; or  
*Corequisite:* Students with Milestone M30 or above may enroll in Mathematics 119X (which pairs Mathematics 119 with support course Mathematics 15A).

This course covers descriptive and inferential statistics. The descriptive portion analyzes data through graphs, measures of central tendency and dispersion. The inferential statistics portion covers statistical rules to compute basic probability, including binomial, normal, Chi-squares, and T-distributions. This course also covers estimation of population parameters, hypothesis testing, linear regression, correlation and ANOVA. Emphasis is placed on applications of technology, using software packages, for statistical analysis and interpretation of statistical values based on data from disciplines including business, social sciences, psychology, life science, health science and education. This course is intended for transfer students interested in statistical analysis. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID MATH 110.

**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. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID MATH 140.

**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. This course is intended for students majoring in business, natural science, social science and economics. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**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 an introduction to university-level calculus requiring a strong background in algebra and trigonometry. The topics of study include analytic geometry, limits, differentiation and integration of algebraic and transcendental

functions, and applications of derivatives and integrals. Emphasis is placed on calculus applications involving motion, optimization, graphing, and applications in the physical and life sciences. This course incorporates the use of technology. Analytical reading and problem solving are strongly emphasized in this course. This course is intended for students majoring in mathematics, computer science, physics, chemistry, engineering, or economics. AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID MATH 210.

### 150L Calculus I Laboratory

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 141 with a grade of "C" or better, or equivalent.

*Corequisite:* Mathematics 150.

This course is a workshop, project-oriented course dealing with exploration and development of the calculus topics introduced in Calculus and Analytic Geometry I. This course directly supports the calculus lectures by having hands-on, collaborative assignments where technology is strongly incorporated throughout all the in-class assignments. Students work individually and in small groups on explorations and applications thus extending the material presented in Mathematics 150. Topics including geometric, analytic and numeric applications of limits, derivatives and integrals as well as calculus applications found in the physical and life sciences. This course is intended for all students currently enrolled in Mathematics 150. (FT) AA/AS; CSU; UC.

### 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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 Milestone M50 or Mathematics 92 with a grade of "C" or better, or equivalent or Milestone M40.

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. This course includes content relevant to national and state curriculum standards for elementary school mathematics. It is designed for students preparing for credentials in elementary education. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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 or English 105, each 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

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

in problem solving and critical thinking. It studies the understanding and explanation of the basic mathematical concepts and the connections between them. Analytical reading and problem solving are required for success in this course. It is designed especially for students preparing for credentials in elementary education. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

## 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, each with a grade of "C" or better, or equivalent.

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.

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.

This course includes the algebra and geometry of 2 and 3 dimensional Euclidean vectors, the algebra and calculus of multivariable functions including composition of functions, limits, continuity, partial differentiation, gradients, higher order derivatives, the chain rule, constrained and unconstrained optimization including 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. This course is essential for most upper division courses in mathematics and forms part of the foundation for engineering and physics. The course is intended for the students interested and/or planning to major in mathematics, physics, astronomy, engineering, computer science, physical chemistry, operational research, or economics. (FT) AA/AS; CSU; UC; C-ID MATH 230.

## 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, eigenvectors, the rank and nullity of matrices and introduction to linear transformations.

This course is 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. This course covers first order and higher order ordinary differential 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 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 subjects. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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**

*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. AA/AS.

### 56 Administrative Medical Assisting I

**1 hour lecture, 1.5 hours lab, 1.5 units  
Grade Only**

*Prerequisite:* Medical Assisting 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 Medical Assisting 104 or Medical Assisting 66.

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) AA/AS.

### 64 Medical Ethics and Legal Issues for the Allied Health Professional

**1 hour lecture, 1 unit  
Grade Only**

*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) AA/AS.

**(FT)** = A field trip may be required for this course.  
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**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

## 68 Human Behavior for Allied Health Students

**3 hours lecture, 3 units  
Grade Only**

*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) AA/AS.

## 76 Principles of Infection Control and Sterile Technique

**1 hour lecture, 1.5 hours lab, 1.5 units  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Medical Assisting 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 handwashing 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) AA/AS.

## 78 Principles of Patient Care

**1 hour lecture, 3 hours lab, 2 units  
Grade Only**

*Prerequisite:* Medical Assisting 55 or Biology 160, each with a grade of "C" or better, or equivalent and Medical Assisting 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 Medical Assisting 112.

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 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) AA/AS.

## 82 Diagnostic Testing

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Medical Assisting 55 or Biology 160, each with a grade of "C" or better, or equivalent and Medical Assisting 110 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Medical Assisting 76 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) AA/AS.

### **84 Phlebotomy for Medical Assisting** **1.5 hours lecture, 1.5 hours lab, 2 units** **Grade Only**

*Prerequisite:* Medical Assisting 76 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 150.

This course prepares students to perform venipunctures and basic blood 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. AA/AS.

### **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.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Medical Assisting 205 or Medical Assisting 240 and Medical Assisting 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) AA/AS.

### **88 Electrocardiogram Application** **1.5 hours lab, 0.5 units** **Grade Only**

*Prerequisite:* Medical Assisting 76 and 55, or Biology 160, 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 220.

This course presents the Medical Assisting 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. (FT) AA/AS.

### **92 Minor Surgery** **1.5 hours lab, 0.5 units** **Grade Only**

*Prerequisite:* Medical Assisting 76 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 230.

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, instruments, materials and supplies used in aseptic and sterile procedures. 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.

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**94 Medication Administration****1.5 hours lab, .5 units  
Grade Only**

*Prerequisite:* Medical Assisting 110 and Medical Assisting 76, 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 250.

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 carry out 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.

**97 Directed Clinical Practice****216 – 243 hours other, 4.5 units  
Grade Only**

*Prerequisite:* Medical Assisting 110, 76, 78, and 82, 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 145 or 96.

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.

**110 Medical Terminology****3 hours lecture, 3 units  
Grade Only**

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. AA/AS; CSU.

**115 Pathophysiology****3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Medical Assisting 55, Medical Assisting 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 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.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Multimedia (MULT)****100 Introduction to Visual Communication****2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Multimedia 101. This course provides an overview of the design principles and digital tools required to

develop a professional level of communication, conceptualization, composition, and visual design skills. Emphasis is placed on modern design theory, standards, & processes, industry standard software, and career opportunities in digital design and multimedia. This course is intended for students interested in game development, graphic design, web design, 3D & 2D animation, video production, and app development. (FT) AA/AS; CSU.

**120 Introduction to Video Game Design**  
**3 hours lecture, 3 units**  
**Grade Only**

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. (FT) AA/AS; CSU.

**121 Intermediate Visual Communication**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 100 with a grade of "C" or better, or equivalent.  
 This course is designed to develop preliminary skills in the conceptual use of industry standard digital 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. (FT) AA/AS; CSU.

**122 Advanced Visual Communication**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* Multimedia 121 with a grade of "C" or better, or equivalent.  
 This is a project-based course designed to develop advanced skills in the use of media design software applications. Emphasis is placed on producing conceptual media elements and compositions 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 design or multimedia industry. (FT) AA/AS; CSU.

**123 Digital Video I**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 100 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. (FT) AA/AS; CSU.

**124 Digital Video II**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 123 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 design 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. AA/AS; CSU.

**137 3D Animation I: Introduction to 3D Modeling and Animation**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* 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 for use in digital interactive game environments. Emphasis is placed on optimized 3D design and visualization, 3D animated scenes, video game development and general multimedia. This course is intended for multimedia

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majors and anyone pursuing a career in video game development, 3D design and visualization, 3D animation, or general multimedia. (FT) AA/AS; CSU.

### **139 3D Animation II: Character Design & Development**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; 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. (FT) AA/AS; CSU.

### **141 3D Animation III: Intermediate 3D Animation**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Multimedia 139 with a grade of "C" or better, or equivalent.

This course is an intermediate study in special effects and character animation. Emphasis is placed on the use of advanced rigging systems, particle systems, physics engines, and lighting to create original animated scenes. This course is intended for multimedia majors and individuals pursuing careers in 3D animation, film and video game development. (FT) AA/AS; CSU.

### **143 3D Animation IV: Advanced 3D Animation**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Multimedia 141 with a grade of "C" or better, or equivalent.

This course is a hands-on study of 3D short film production. This course is designed for multimedia students and students seeking employment in the entertainment industry. (FT) AA/AS; CSU.

### **148 Business of Games**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Multimedia 133.

This course is a hands-on study of video game prototyping and production. Students design, develop, and produce a working prototype of an original interactive game concept. This course is designed for multimedia students and students seeking employment in the digital entertainment industry. (FT) AA/AS; CSU.

### **150 Beginning Unity Game Development**

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 100 and Multimedia 137, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Multimedia 112. This is a project-based course designed to develop skills in 2D and 3D game development and introductory gameplay programming. Emphasis is placed on developing interactive environments and games. This course is intended for students interested in the conceptualization, design, and development of 2D & 3D games and applications. (FT) AA/AS; CSU.

### **152 Intermediate Unity Game Development**

**2 hours lecture, 3 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Multimedia 150 and Multimedia 139, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Multimedia 114. This is a project-based intermediate Unity course designed to develop skills in game design and gameplay programming. Emphasis is placed on developing interactive games incorporating C#, sound, video and digital assets at the intermediate level. This course is intended for students interested in creating interactive 2D & 3D games. (FT) AA/AS; CSU.

### **154 Advanced Unity Game Development**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Advisory:* Multimedia 152 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Multimedia 116. This is a project-based course using Unity for creating online and stand-alone games. Emphasis is placed on the game development processes, including design, story and character development, physics audio, optimization, and deployment.

This course is designed for students interested in advanced game development. (FT) AA/AS; CSU.

**160 Beginning Unreal Engine**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

*Advisory:* Multimedia 121 and Multimedia 137, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Multimedia 130. This course is a guided digital studio approach to developing skills in the use of industry standard game engine software for use in digital interactive game environments. Emphasis is placed on game design and development, optimized 3D design and visualization, interactive 3D scenes and levels, and general multimedia. This course is intended for multimedia majors and anyone pursuing a career in video game development or general multimedia. (FT) AA/AS; CSU.

**162 Intermediate Unreal Engine**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

*Advisory:* Multimedia 160 and Multimedia 139, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Multimedia 131. This course is a guided digital studio approach to 3D character & game level design and production. This course combines exercises and individual and group projects to develop necessary skills and techniques in video game production. The course is intended for students who are preparing for more advanced study in 3D modeling, animation, and game design. (FT) AA/AS; CSU.

**164 Advanced Unreal Engine**  
**2 hours lecture, 3 hours lab, 3 units**  
**Grade Only**

*Advisory:* Multimedia 162 and Multimedia 139, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Multimedia 132. This class engages the student of Video Game Development in an exploration of interactive environments using methodologies and concepts drawn from both inside and outside the traditional realms of interactive game design. It provides an opportunity for students to engage an audience by channeling their conceptual ideas into interactive digital environments via technologies incorporating programming, sound, compositing,

virtual reality, interactivity, and three-dimensional modeling & animation. Emphases include an in-depth examination of contemporary examples of interactive gaming and a cross-sectioned exposure to the art, design, and programming involved in the creation of interactive games. This course serves as a preparatory environment for students to design and create a fully functional interactive game. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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**

This course is designed to develop aural and analytical musical skills. Emphasis is placed on conceptual, contextual, and stylistic elements of music from various periods and cultures, and encompassing a range of genres and styles. 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; C-ID MUS 100.

**103 History of Rock Music**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

This course surveys the origins and development of rock and roll music from the early 1950s to the present including the pre-1950s roots of rock music. The course focuses on the evolution of different styles within the genre as well as the social, political, economic and cultural contexts of rock music. Additionally, basic musical concepts such as pitch,

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rhythm and form are introduced and applied to the music under consideration. This course is intended for all students interested in music. (FT) AA/AS; CSU; UC.

**109 World Music**

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

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. This course is intended for students majoring in music or anyone interested in music and culture. (FT) AA/AS; CSU; UC.

**110 Music for Elementary School Teachers**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

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**

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

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 and twenty-first centuries, current trends, and outstanding performers and composers. This course is intended for all students interested in the history of Jazz. (FT) AA/AS; CSU; UC.

**116A Piano Class I**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 115A.

This course explores the process of making music at the piano. The focus of the course is to provide a musical experience for students to continue a life-long pursuit of self-expression. This course also emphasizes developing fundamental techniques

needed to play the piano. The concept of music theory is also included. Students learn piano techniques and applicable music theory by playing music on the piano through simple solo and ensemble pieces. This course is designed for all students interested in learning to play the piano. (FT) AA/AS; CSU; UC.

**116B Piano Class 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 course further explores the process of making music at the piano as the second semester of piano studies. Students learn piano techniques and applicable music theory by playing music on the piano with additional sight-reading and intermediate piano solo and ensemble music. The course is designed for all students who are interested in further expanding piano studies. (FT) AA/AS; CSU; UC.

**117 Music in the United States**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

This course introduces students to the history and style of various genres of music from the United States covering pre-colonial times to the present including Native American, Native Hawaiian, religious, martial, classical, folk, blues, ragtime, American popular song, jazz, country, rock, and rap. Analytical, aural, historical, and socio-cultural tools will be used to interpret music in the USA in the broadest perspective relating music to race, identity, gender, and popular culture technology. This course is for students majoring in music or for those who have an interest in music. (FT) AA/AS; CSU; UC.

**118 Asian Music**

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

This course introduces various traditional Asian musics including India, the Middle East, East Asia, Southeast Asia, Central Asia, and Oceania. Areas of

emphasis will be on learning about types of musical instruments, ensembles, musical styles, relevant history & geography, cultural contexts, and functions of music in traditional societies. This course is intended for music majors or anyone interested in music. (FT) AA/AS; CSU; UC.

**119 Music in the Americas, Africa & Europe**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent or Milestone R50 and W50.

This course introduces various traditional musics of the Americas, Sub-Saharan Africa, and Western Europe. Areas of emphasis will be on learning about types of musical instruments, ensembles, musical styles, relevant history & geography, cultural contexts, functions of music in traditional societies, and cultural retention and syncretism in order to understand how the music and culture of these areas of the world are related. This course is intended for music majors or any student interested in music. (FT) AA/AS; CSU; UC.

**120 Voice Class I**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent or Milestone R50 and W50.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 120A.

This course is an opportunity to explore your singing voice. To become a more expressive singer, a variety of songs are used for developing the range, volume, and tone color of your solo voice. A goal of the course is to provide a musical experience that inspires students to continue singing as a source of self-expression and growth. (FT) AA/AS; CSU; UC.

**121 Voice Class II**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 120 with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 120B.

This intermediate voice class 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.

**123A Recital Hour I**  
**1.5 hours lab, 0.5 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent, or Milestone R50 and W50.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 123.

Recital Hour offers a weekly series of live musical concerts in a variety of popular, folk, classical, and world musics for a beginning level audience. Concerts feature well-known international performers, music faculty, and music student performers. This course is designed for anyone interested in music. AA/AS; CSU; UC.

**123B Recital Hour II**  
**1.5 hours lab, 0.5 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 123A with a grade of “C” or better, or equivalent.

Recital Hour offers a weekly series of live musical concerts in a variety of popular, folk, classical, and world musics for an intermediate level audience. Concerts feature well-known international performers, music faculty, and music student performers. This course is designed for anyone interested in music. AA/AS; CSU; UC.

**123C Recital Hour III**  
**1.5 hours lab, 0.5 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 123B with a grade of “C” or better, or equivalent.

Recital Hour offers a weekly series of live musical concerts in a variety of popular, folk, classical, and world musics for an intermediate-advanced level audience. Concerts feature well-known international performers, music faculty, and music student

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performers. This course is designed for anyone interested in music. AA/AS; CSU; UC.

**123D Recital Hour IV**

**1.5 hours lab, 0.5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 123C with a grade of "C" or better, or equivalent.

Recital Hour offers a weekly series of live musical concerts in a variety of popular, folk, classical, and world musics for an advanced level audience. Concerts feature well-known international performers, music faculty, and music student performers. This course is designed for anyone interested in music. AA/AS; CSU; UC.

**125 Music, the Arts, and Society**

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course examines selected musical traditions of the world through critical listening to music, cultural awareness, and political and ethical issues as related to culture and music. Basic musical concepts are introduced to assist students in describing and communicating the experience of listening to music. Students explore how music is an activity with social, political, and artistic functions. These analytical tools help students define their own identity through musical and cultural practices. In addition, this course examines how music is used, how meaning is created, and how music helps to define community. This course is intended for all students interested in music and culture. (FT) AA/AS; CSU; UC.

**135A Guitar Class I**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

This is a beginning course designed for students who want to study basic guitar technique and music theory. Students will learn how to read music notation, perform simple solo guitar pieces, basic guitar chords and apply finger style guitar techniques. A goal of this course is to provide the student with a lifelong ability to make guitar music and acquire the skills necessary to reflect upon their process of learning. (FT) AA/AS; CSU; UC.

**135B Guitar Class II**

**1.5 hours lecture, 1.5 hours lab, 2 units  
Grade Only**

*Prerequisite:* Music 135A with a grade of "C" or better, or equivalent.

This is an intermediate course designed for students who want to further their studies of guitar techniques and music theory. Students will learn how to read music notation in all positions of the guitar, perform intermediate solo guitar pieces, basic guitar chords in all twelve keys and apply more advanced finger style guitar techniques. A goal of this course is to provide the student with a lifelong ability to make guitar music and acquire the skills necessary to reflect upon their process of learning. (FT) AA/AS; CSU; UC.

**150A Basic Musicianship**

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48, and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

This course is the study and practice of musical literacy. Emphasis is placed on the development of perceptions in sight and sound as related to the symbols of rhythmic, melodic, and harmonic notation. Topics include skill development in notating notes, intervals, scales, key signatures, rhythms, and chords. Students also identify terms used to indicate navigation, tempo, and dynamics. This course is designed for music majors and musicians. (FT) AA/AS; CSU; UC; C-ID MUS 110.

**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 a study of music, including structural, historical and stylistic analysis of music of Western classical music, World music, jazz, and popular music. The class will discuss the cultural, social and technical significance of the musical literature, examining rhythms, intervals, chords, cadences, melodies, phrases, notes and scales. Students will develop four-part writing skills using diatonic triads and seventh chords, and learn how to read and compose with figured bass, lead sheet chord symbols and standard musical notation. The history of notation and practice will be discussed as students develop skills in notation software and handwritten notation.



This course is intended for music majors. (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 series continues in its study of diatonic music including the structural, historical and stylistic analysis of music of Western classical music, World music, jazz, and popular music. The class will discuss the cultural, social and technical significance of the musical literature, examining how melody, structure, harmony, and chord progressions, have an impact on the listener. The course will include analysis of Baroque and Classical pieces of music and an examination of large-scale events and form. The course will also include identifying, creating, and composing with the modes of the major scale. Students will continue to develop four-part writing skills using triads and seventh chords, non-harmonic tones, suspensions, retardations, figured bass, 6/4 chords, modulations and tonicizations. The history of notation and practice will be discussed as students develop skills in notation software and handwritten notation. This course is intended for music majors. (FT) AA/AS; CSU; UC; C-ID MUS 130.

### 174A Individualized Study I

**0.5 hours lecture, 1.5 hours lab, 1 unit**

**Grade Only**

*Prerequisite:* Music 150A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition. This course is not open to students with previous credit for Music 276A.

This course is a study in developing technical skills beyond an entry level to perform and present repertoire for a specific instrument or voice. This course is designed for music majors whose technical skills are evident but not yet adequate to begin addressing the needs of artistic self-expression. Students are expected to obtain fifteen one-hour private lessons on their instrument to meet the course objectives. Entrance is by audition. (FT) AA/AS; CSU; UC.

### 174B Individualized Study II

**0.5 hours lecture, 1.5 hours lab, 1 units**

**Grade Only**

*Prerequisite:* Music 174A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition. This course is not open to students with previous credit for Music 276B.

This course is a study in developing technical skills beyond a beginning level to perform and present repertoire for a specific instrument or voice. This course is designed for music majors whose technical skills are evident but not yet adequate to begin addressing the needs of artistic self-expression. Students are expected to obtain fifteen one-hour private lessons on their instrument to meet the course objectives. (FT) AA/AS; CSU; UC.

### 174C Individualized Study III

**0.5 hours lecture, 1.5 hours lab, 1 unit**

**Grade Only**

*Prerequisite:* Music 174B with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition. This course is not open to students with previous credit for Music 276C.

This course is a study in developing technical skills at the intermediate level to perform and present repertoire for a specific instrument or voice. This course is designed for music majors whose technical skills are evident but not yet adequate to begin addressing the needs of artistic self-expression. Students are expected to obtain fifteen one-hour private lessons on their instrument to meet the course objectives. (FT) AA/AS; CSU; UC.

### 174D Individualized Study IV

**0.5 hours lecture, 1.5 hours lab, 1 units**

**Grade Only**

*Prerequisite:* Music 174C with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition. This course is not open to students with previous credit for Music 276D.

This course is a study of performing and presenting repertoire using appropriate techniques for a

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**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

specific instrument or voice. Students are expected to obtain fifteen one-hour private lessons on their instrument to meet the course objectives. This course is designed for music majors whose technical skills are beyond the intermediate level but not yet adequate to begin addressing the needs of artistic self-expression. (FT) AA/AS; CSU; UC.

**190 Electronic Music Studio**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Completion of or concurrent enrollment in Music 150A with a grade of “C” or better, or equivalent.

This course is a study of simple electronic and acoustic theory as it applies to sequencing Musical Instrument Digital Interface (MIDI), hard disk recording and other computer music applications. Students design and create projects using microphones, recorders, mixing boards, synthesizers, and samplers. This course is designed for all students interested in making electronic music in a recording studio. (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 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent, or Milestone R50 and W50.

*Advisory:* 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. Emphasis is placed on the various applications of advanced recording, microphone use, and mixing, such as editing, effects processing, music concrete composition, and other techniques for music composition. This course is intended for advanced music students who work with recording equipment. (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 47A or English 48 and English 49, each with a grade of “C” or better, or equivalent or

Milestone R50 and W50; 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. Emphasis in this course is on acquisition of computer skills to access and manipulate musical data via MIDI (musical instrument digital interface), hard disk audio files and other digital formats. These skills allow students to digitally sample sounds, control synthesizers and samplers, access and alter audio files, 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.

**203 Large Console Audio Recording**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Prerequisite:* Music 190 with a grade of “C” or better, or equivalent.

*Advisory:* English 47A or English 48, and English 49, each with a grade of “C” or better, or equivalent or Milestone R50 and W50; Music 201 with a grade of “C” or better, or equivalent.

This course is a hands-on study of the concepts and operating principles of large console audio recording (professional broadcast mixing board) in a high quality studio environment. Topics include audio signal flow in a large console, operating levels, microphone techniques in stereo and mono, room acoustics, equalization, reverbs, delays, compression/limiting, differences between “live” and multi-track recording, mixing techniques, mastering, differences between analog and digital recording and processing, and preparation of compact audio discs (CDs). This course is intended for all students interested in the electronic music studio. (FT) AA/AS; CSU.

**205A Projects in Electronic Music I**

**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.

This course provides instruction in music technology applications. Students will do projects that develop skills in the areas of audio engineering techniques, electronic music, and electroacoustic music composition and arrangement. Students will also create a portfolio of new music recordings and/or productions in an electronic music

studio or home studio using music technology equipment, applications, and techniques. Topics include electronic music studio technical skills; pre-production preparation; the recording and production process; mastering and mixing; and self and peer assessment. This course is intended for students majoring in audio production and engineering, those developing their own home studio, or anyone seeking employment in the field of electronic music. (FT) AA/AS; CSU.

### 205B Projects in Electronic Music II

**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 150A with a grade of "C" or better, or equivalent.

This course is a continuation of instruction in music technology applications. Students will do projects that further refine their skills in the areas of audio engineering techniques, electronic music, and electroacoustic music composition and arrangement. Students will also expand on a portfolio of new music recordings and/or productions in an electronic music studio or home studio using music technology equipment, applications, and techniques. Topics include advanced electronic music studio technical skills; pre-production preparation; the recording and production process in a variety of contexts; mastering and mixing; portfolio development; and self and peer assessment. This course is intended for students majoring in audio production and engineering, those developing their own home studio, or anyone seeking employment in the field of electronic music. (FT) AA/AS; CSU.

### 206A Projects in Composition I

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Music 150A with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in Music 190 with a grade of "C" or better, or equivalent. This course is designed for all composers, beat-makers, and music majors who want to learn composition or who are actively composing music. In this course students receive instruction in composition, music technology, and performance. Students create a portfolio of music in any style

or genre. The method of composition can be either score-based in musical notation or through electronic music production. Students create new music, present their work to colleagues, reflect and respond to one another, discuss musical processes, craft, techniques, and approaches. The focus is on developing a daily compositional practice, discovering your own musical voice, and creating a lifelong musical compositional practice. (FT) AA/AS; CSU.

### 206B Projects in Composition II

**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Music 150A with a grade of "C" or better, or equivalent.

*Advisory:* Completion of or concurrent enrollment in: Music 190 with a grade of "C" or better, or equivalent. This course is designed for all composers, beat-makers, and music majors who want to expand their compositional skills or who are actively composing music. In this course students receive continued instruction in composition, music technology, and performance. Students create, expand and refine their portfolio of music in any style or genre. The method of composition can be either with score-based in musical notation or through electronic music production. Students create new music, present their work to colleagues, reflect and respond to one another, discuss musical processes, craft, techniques, and approaches. The focus is on developing a daily compositional practice, discovering your own musical voice, and creating a lifelong musical compositional practice. (FT) AA/AS; CSU.

### 209A Electronic Music Studio Internship I

**3 hours lab, 1 unit**  
**Grade Only**

*Prerequisite:* Music 190 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 209.

*Limitation on Enrollment:* Tryout or Audition.

**(FT)** = A field trip may be required for this course.  
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**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

This course is designed to provide advanced music students with the opportunity to develop skills through assisting beginning and intermediate level music students in the Electronic Music Studio (EMS) lab. Emphasis is placed on assisting students with security, scheduling and safety procedures. This course is designed for advanced EMS music students. (FT) AA/AS; CSU.

**209B Electronic Music Studio Internship II**  
**3 hours lab, 1 unit**  
**Grade Only**

*Prerequisite:* Music 209A with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition.

This course is designed to provide advanced music students with the opportunity to develop skills through assisting beginning and intermediate level music students in the Electronic Music Studio (EMS) lab. Emphasis is placed on assisting students with proper protocol, skills and knowledge learned in the electronic music studio courses. This course is designed for advanced EMS music students. (FT) AA/AS; CSU.

**209C Electronic Music Studio Internship III**  
**3 hours lab, 1 unit**  
**Grade Only**

*Prerequisite:* Music 209B with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition.

This course is designed to provide advanced music students with the opportunity to develop skills through assisting beginning and intermediate level music students in the Electronic Music Studio (EMS) lab. Emphasis is placed on troubleshooting and resolving technical problems. This course is designed for advanced EMS music students. (FT) AA/AS; CSU.

**209D Electronic Music Studio Internship IV**  
**3 hours lab, 1 unit**  
**Grade Only**

*Prerequisite:* Music 209C with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition.

This course is designed to provide advanced music students with the opportunity to develop skills through assisting beginning and intermediate level music students in the Electronic Music Studio (EMS) lab. Emphasis is placed on the elements necessary for effective professional work in a recording studio. This course is designed for skilled advanced EMS music students. (FT) AA/AS; CSU.

**216A Piano Class III**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 116B with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 215A and Music 215B, or Music 216.

This course further explores the process of making music at the piano as the third semester of piano studies. Emphasis is placed on piano technique and music theory including music notation reading, scales, chords, harmonization, and performance of intermediate level piano literature and four-part scores. This course is designed for all students who are interested in intensive piano studies. (FT) AA/AS; CSU; UC.

**230A Jazz Improvisation I**  
**3 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* Music 150A with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 153.

This course provides the opportunity to develop skills in basic Jazz improvisation. Students learn to read and interpret basic Jazz rhythms and notation, determine chord/scale relationships, and play standard motifs and rhythms so as to create their own improvised solos within a combo setting. This is an interactive course open to all students who can read music, understand basic chord structures, and have performance skills beyond an entry level on their instruments. (FT) AA/AS; CSU.

**230B Jazz Improvisation II**  
**3 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 230A with a grade of “C” or better, or equivalent.

This course provides the opportunity to develop skills in intermediate Jazz improvisation. Students learn to read and interpret Jazz rhythms and notation, determine chord/scale relationships, and play standard motifs and rhythms so as to create their own improvised solos within a combo setting. This is an interactive course open to all students who can read music, understand chord structures, and have performance skills beyond an entry level on their instruments. AA/AS; CSU.

**230C Jazz Improvisation III****3 hours lab, 1 unit****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 230B with a grade of "C" or better, or equivalent.

This course provides the opportunity to develop skills in intermediate/advanced Jazz improvisation. Students learn to read and interpret Jazz rhythms and notation, determine chord/scale relationships, and play standard motifs and rhythms so as to create their own improvised solos within a combo setting. This is an interactive course open to all students who can read music, understand chord structures, and have performance skills beyond an entry level on their instruments. (FT) AA/AS; CSU.

**230D Jazz Improvisation IV****3 hours lab, 1 unit****Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 230C with a grade of "C" or better, or equivalent.

This course provides the opportunity to develop skills in advanced Jazz improvisation. Students learn to read and interpret Jazz rhythms and notation, determine chord/scale relationships, and play standard motifs and rhythms so as to create their own improvised solos within a combo setting. This is an interactive course open to all students who can read music, understand chord structures, and have performance skills beyond an entry level on their instruments. (FT) AA/AS; CSU.

**240 Voice Class III****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.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 240A.

This advanced voice class 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 Voice Class IV****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.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 240B. This advanced voice class 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.

**251A World Music Ensemble I****1.5 hours lecture, 1.5 hours lab, 2 units****Grade Only**

World Music Ensemble I is a performance ensemble that exposes students to a variety of world music traditions, including those found in Uganda (East Africa), Ghana (West Africa), Zaire (Central Africa), Brazil (South America), and the Middle East. Students will learn basic drumming techniques on a variety of percussion instruments, and learn to sing traditional vocal pieces in a foreign language. Repertoire will be learned through oral tradition and alternative notation. No prior experience needed and no audition required. This course is open to all students. This course is for students majoring in music or for those who have an interest in music. (FT) AA/AS; CSU; UC.

**251B World Music Ensemble II****1.5 hours lecture, 1.5 hours lab, 2 units****Grade Only**

*Prerequisite:* Music 251A with a grade of "C" or better, or equivalent.

World Music Ensemble II is a performance ensemble that exposes students to a variety of world music traditions, including those found in Uganda (East Africa), Ghana (West Africa), Zaire (Central Africa), and Brazil (South America). Students will learn

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

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**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

intermediate drumming techniques on a variety of percussion instruments, and learn to sing traditional vocal pieces in foreign languages. Repertoire will be learned through oral tradition and alternative notation. No audition is required. This course is for students that wish to participate in an ensemble group. This course is for students majoring in music or for those who have an interest in music. (FT) AA/AS; CSU; UC.

**251C World Music Ensemble III**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Grade Only**

*Prerequisite:* Music 251B with a grade of "C" or better, or equivalent.  
 World Music Ensemble III is a performance ensemble that exposes students to a variety of world music traditions, including those found in Uganda (East Africa), Ghana (West Africa), Zaire (Central Africa), and Brazil (South America). Students will learn intermediate-advanced drumming techniques on a variety of percussion instruments, and learn to sing traditional vocal pieces in foreign languages. Repertoire will be learned through oral tradition and alternative notation. No audition is required. This course is for students majoring in music or for those who have an interest in music. (FT) AA/AS; CSU; UC.

**251D World Music Ensemble IV**  
**1.5 hours lecture, 1.5 hours lab, 2 units**  
**Grade Only**

*Prerequisite:* Music 251C with a grade of "C" or better, or equivalent.  
 World Music Ensemble IV is a performance ensemble that exposes students to a variety of world music traditions, including those found in Uganda (East Africa), Ghana (West Africa), Zaire (Central Africa), and Brazil (South America). Students will learn advanced drumming techniques on a variety of percussion instruments, and learn to sing several traditional vocal pieces in multiple foreign languages. Repertoire will be learned through oral tradition and alternative notation. No audition is required. This course is for students majoring in music or for those who have an interest in music. (FT) AA/AS; CSU; UC.

**252A Jazz Big Band I**  
**3 - 9 hours lab, 1-3 units**  
**Letter Grade or Pass/No Pass Option**

*Limitation on Enrollment:* Tryout or Audition. This course is not open to students with previous credit for Music 252.

This ensemble is open to any student experienced in music interested in performing Jazz big band repertoire at the beginning level. Instrumentation includes saxophones, trumpets, trombones, piano, guitar, bass, and drums. This ensemble gives public concerts and focuses on developing skills in reading music, improvisation, and ensemble performance in a variety of Jazz styles. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**252B Jazz Big Band II**  
**3 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 252A with a grade of "C" or better, or equivalent.  
*Limitation on Enrollment:* Tryout or audition.  
 This ensemble is open to any student experienced in music interested in performing Jazz big band repertoire at the intermediate level. Instrumentation includes saxophones, trumpets, trombones, piano, guitar, bass, and drums. This ensemble gives public concerts and focuses on developing skills in reading music, improvisation, and ensemble performance in a variety of Jazz styles. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**252C Jazz Big Band III**  
**3 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 252B with a grade of "C" or better, or equivalent.  
*Limitation on Enrollment:* Tryout or Audition.  
 This ensemble is open to any student experienced in music interested in performing Jazz big band repertoire at the intermediate-advanced level. Instrumentation includes saxophones, trumpets, trombones, piano, guitar, bass, and drums. This ensemble gives public concerts and focuses on developing skills in reading music, improvisation, and ensemble performance in a variety of Jazz styles. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**252D Jazz Big Band IV**  
**3 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 252C with a grade of "C" or better, or equivalent.  
*Limitation on Enrollment:* Tryout or Audition.  
 This ensemble is open to any student experienced in music interested in performing Jazz big band repertoire at the advanced level. Instrumentation includes saxophones, trumpets, trombones, piano,

guitar, bass, and drums. This ensemble gives public concerts and focuses on developing skills in reading music, improvisation, and ensemble performance in a variety of Jazz styles. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

### 253A Jazz Ensemble 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.

This course is a study of jazz ensemble music performance at the beginning level. Students are seated in ensemble according to their technical ability in preparation for performance. This course is designed for music majors and anyone interested in playing with a jazz ensemble. (FT) AA/AS; CSU; UC; C-ID MUS 180.

### 253B Jazz Ensemble 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.

This course is a study of jazz ensemble music performance at the intermediate level. Students are seated in ensemble groups according to their technical ability in preparation for performance. This course is designed for music majors and anyone interested in playing with a jazz ensemble. (FT) AA/AS; CSU; UC; C-ID MUS 180.

### 253C Jazz Ensemble 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.

This course is a study of jazz 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 is designed for music majors and anyone interested in playing with an ensemble. (FT) AA/AS; CSU; UC; C-ID MUS 180.

### 253D Jazz Ensemble IV

**3–9 hours lab, 1–3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Music 253C with a grade of “C” or better, or equivalent.

This course is a study of jazz 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 is designed for music majors and anyone interested in playing with a jazz ensemble. (FT) AA/AS; CSU; UC; C-ID MUS 180.

### 257A Guitar Ensemble I

**3 hours lab, 1 unit  
Grade Only**

*Limitation on Enrollment:* Tryout or Audition. This course is not open to students with previous credit for Music 255 or Music 256A.

This course is a beginning-intermediate guitar ensemble for the study and performance of selected guitar ensemble works. Students practice and perform a wide variety of works from different historical areas, and develop their skills in reading music, guitar technique and interpretation. Attendance at rehearsals and performances is required. This course is designed for students majoring music who want to advance their ensemble skills by participating in an ensemble group. (FT) AA/AS; CSU; UC.

### 257B Guitar Ensemble II

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Music 257A with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 256B. This course is an intermediate guitar ensemble for the study and performance of selected guitar ensemble works. Students practice and perform a wide variety of works from different historical areas, and develop their skills in reading music, guitar technique and interpretation. Attendance at rehearsals and performances is required. This course is designed for music majors wanting to advance their skills in ensemble groups. (FT) AA/AS; CSU; UC.

### 257C Guitar Ensemble III

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Music 257B with a grade of “C” or better, or equivalent.

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 256C. This course is an intermediate guitar ensemble for the study and performance of selected guitar ensemble works. Students practice and perform a wide variety of works from different historical areas, and develop their skills in reading music, guitar technique and interpretation. Attendance at rehearsals and performances is required. This course is designed for students majoring music who want to advance their ensemble skills by participating in an ensemble group. (FT) AA/AS; CSU; UC.

**257D Guitar Ensemble IV**

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Music 257C with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Music 256D. This course is an advanced guitar ensemble for the study and performance of selected guitar ensemble works. Students practice and perform a wide variety of works from different historical areas, and develop their skills in reading music, guitar technique and interpretation. Attendance at rehearsals and performances is required. This course is designed for students majoring music who want to advance their ensemble skills by participating in an ensemble group. (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 the third in a four semester sequence. It includes a detailed study of compositional techniques and structure in the music of the 18th and 19th centuries. The emphasis is on further development of analysis and writing skills using chromatic harmonies including secondary dominants, secondary leading tone chords, chromatic thirds, modulations, expanded tonicization, modal borrowing, modal mixture, altered predominants and altered dominant chords. The course includes analysis and writing of two-part tonal counterpoint and the analysis of Sonata form, 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; C-ID MUS 140.

**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 the fourth of a four semester sequence. It includes a detailed structural analysis and study of compositional techniques in the music of the 19th, 20th and 21st centuries. The emphasis is on the study and composition of music using the new compositional techniques that emerged in the music of the late 19th and early 20th centuries including non-functional harmony, polytonality, atonality, serial techniques and jazz. The course includes analysis of music by Wagner, Debussy, Bartok, 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; C-ID MUS 150.

**259A Choir I**

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Music 120 and Music 150A, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition. This course is not open to students with previous credit for Music 212, Music 212A, Music 210A or Music 211A. Choir I is a mixed voice choral ensemble that prepares and performs a wide variety of choral works. Students develop a high level of artistic choral singing through directed rehearsal, and perform at public concerts, choir festivals, and/or on choir tours. Enrollment is by audition. While prospective members are expected to have some previous choral and vocal experience, all students are encouraged to audition. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

**259B Choir II**

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Music 259A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition. This course is not open to students with previous credit for Music 212, Music 212B, Music 210B or Music 211B.



Choir II is a mixed voice choral ensemble that prepares and performs a wide variety of choral works. Students develop a high level of artistic choral singing through directed rehearsal, and perform at public concerts, choir festivals, and/or on choir tours. Enrollment is by audition. Prospective members are expected to have choral and vocal experience beyond Vocal Ensemble I. Attendance at rehearsals and performances is required. Enrollment is by audition. Members are expected to have some music reading skills as well as choral and vocal experience. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

### 259C Choir III

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Music 259B with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition. This course is not open to students with previous credit for Music 212, Music 212C, Music 210C or Music 211C. Choir III is a mixed voice choral ensemble that prepares and performs a wide variety of choral works. Students develop a high level of artistic choral singing through directed rehearsal, and perform at public concerts, choir festivals, and/or on choir tours. Enrollment is by audition. Prospective members are expected to have choral and vocal experience beyond Vocal Ensemble II. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

### 259D Choir IV

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Music 259C with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Tryout or Audition. This course is not open to students with previous credit for Music 212, Music 212D, Music 210D or Music 211D. Choir IV is a mixed voice choral ensemble that prepares and performs a wide variety of choral works. Students develop a high level of artistic choral singing through directed rehearsal, and perform at public concerts, choir festivals, and/or on choir tours. Enrollment is by audition. Prospective members are expected to have choral and vocal experience beyond Vocal Ensemble III. Attendance at rehearsals and performances is required. (FT) AA/AS; CSU; UC.

### 268A Beginning Ear Training 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.

*Corequisite:* Completion of or concurrent enrollment in Music 158A with a grade of "C" or better, or equivalent.

The course is designed to facilitate perception, performance and identification of melodic, harmonic and rhythmic patterns in music. This course consists of sight singing scales, melodies, and rhythms, notating melodies, harmonies, and rhythms, and identifying chords and intervals. The emphasis is on the development of basic skills in sight singing and dictation: the sight singing and notating of short diatonic melodies containing seconds, thirds, fourths, fifths and octaves, the identification of major, minor, augmented and diminished triads in root position, harmonic dictation of primary triads in major keys, and rhythmic dictation with duple, triple and quadruple 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 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 the second of a four-course sequence in ear training. Emphasis is placed on continued development of skill in sight singing major and minor 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 root position and inversions and in major and minor keys; rhythmic dictation with duple, triple, and quadruple subdivisions of the beat in simple and compound meters; notation of two-part and four-part dictation; and identification of errors in melodic phrases. This course is designed for the student pursuing music as a major or for the student

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

interested in enhancing technical knowledge and skills. (FT) AA/AS; CSU; UC; C-ID MUS 135.

**269A Advanced Ear Training 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 the third semester of a four semester series. Emphasis is on continued development of skills in sight singing melodies which contain all intervals; melodic dictation of longer phrases which contain modulations; 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 simple and compound meters; and identification of all triads in all inversions and seventh chords in root position. This course is designed for the student pursuing a music major or the student interested in enhancing technical knowledge and skills. (FT) AA/AS; CSU; UC.

**269B Advanced Ear Training 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 the fourth semester of a four semester series. Emphasis is on continued development of skills in sight singing melodies which contain all intervals, larger leaps, modality, and non-diatonic tones; melodic dictation of longer phrases which contain modulations, modality, and non-diatonic tone; harmonic identification of all diatonic seventh chords and harmonic dictation of chorale phrases which modulate, and contain secondary dominants, secondary leading tone chords, augmented sixth and neapolitan sixth chords; rhythmic dictation with quarter, eighth, and sixteenth note value, ties, and rests in simple and compound meters; and identification of all triads and seventh chords in all inversions; two-part dictation and error detection. 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.

**274A Applied Music I**

**3 hours lab, 1 unit**

**Grade Only**

*Prerequisite:* Music 150A with a grade of "C" or better, or equivalent.

*Corequisite:* Music 123A, Music 123B, Music 123C, or Music 123D.

*Corequisite:* Completion of or concurrent enrollment in Music 268A, Music 268B, Music 269A or Music 269B, each with a grade of "C" or better, or equivalent, and Music 158A, Music 158B, Music 258A, Music 258B, Music 251A, Music 251B, Music 251C, Music 251D, Music 252A, Music 252B, Music 252C, Music 252D, Music 253A, Music 253B, Music 253C, Music 253D, Music 257A, Music 257B, Music 257C, Music 257D, Music 259A, Music 259B, Music 259C or Music 259D, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for MUSI 275A. Tryout or Audition.

This course is an applied study of performing and presenting repertoire beyond a basic level of artistic self-expression for a specific instrument or voice. Emphasis is placed on the development of specific skills needed for artistry. This course is designed for music majors. (FT) AA/AS; CSU; UC.

**274B Applied Music II**

**3 hours lab, 1 unit**

**Grade Only**

*Prerequisite:* Music 274A with a grade of "C" or better, or equivalent.

*Corequisite:* Music 123A, Music 123B, Music 123C, or Music 123D.

*Corequisite:* Completion of or concurrent enrollment in Music 116A, Music 116B, or Music 216A, each with a grade of "C" or better, or equivalent and Music 268A, Music 268B, Music 269A or Music 269B, each with a grade of "C" or better, or equivalent and Music 158A, Music 158B, Music 258A, Music 258B, Music 251A, Music 251B, Music 251C, Music 251D, Music 252A, Music 252B, Music 252C, Music 252D, Music 253A, Music 253B, Music 253C, Music 253D, Music 257A, Music 257B, Music 257C, Music 257D, Music 259A, Music 259B, Music 259C or Music 259D, 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 275B.

This course is an applied study of performing and presenting repertoire beyond a beginning level of artistic self-expression for a specific instrument or voice. Emphasis is placed on the further development of specific skills needed for artistry. This course is designed for music majors. (FT) AA/AS; CSU; UC; C-ID MUS 160.

**274C Applied Music III****3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Music 274B with a grade of "C" or better, or equivalent.

*Corequisite:* Music 123A, Music 123B, Music 123C or Music 123D.

*Corequisite:* Completion of or concurrent enrollment in Music 116B or Music 216A, each with a grade of "C" or better, or equivalent and Music 268A or Music 268B or Music 269A or Music 269B, each with a grade of "C" or better, or equivalent, and Music 158A or Music 158B, Music 258A, Music 258B, Music 251A, Music 251B, Music 251C, Music 251D, Music 252A, Music 252B, Music 252C, Music 252D, Music 253A, Music 253B, Music 253C, Music 253D, Music 257A, Music 257B, Music 257C, Music 257D, Music 259A, Music 259B, Music 259C or Music 259D, 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 275C.

This course is an applied study of performing and presenting repertoire at the intermediate level of artistic self-expression for a specific instrument or voice. Emphasis is placed on refining specific skills needed for artistry. This course is designed for music majors. (FT) AA/AS; CSU; UC; C-ID MUS 160.

**274D Applied Music IV****3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Music 274C with a grade of "C" or better, or equivalent.

*Corequisite:* Music 123A, Music 123B, Music 123C or Music 123D.

*Corequisite:* Completion of or concurrent enrollment in Music 216A and Music 268A, Music 268B or Music 269A, each with a grade of "C" or better, or equivalent or Music 269B and Music 158A, each with a grade of "C" or better, or equivalent or Music 158B, Music 258A, Music 258B, Music 251A, Music 251B, Music 251C, Music 251D, Music 252A, Music 252B, Music 252C, Music 252D, Music 253A, Music 253B, Music 253C, Music 253D, Music 257A, Music 257B, Music 257C, Music 257D, Music 259A, Music 259B, Music 259C or Music 259D, 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 275D.

This course is a study in developing technical skills at the advanced level to perform and present repertoire for a specific instrument or voice. This course is designed for music majors whose technical

skills are evident but not yet adequate to begin addressing the needs of artistic self-expression. Students are expected to obtain fifteen one-hour private lessons on their instrument to meet the course objectives. AA/AS; CSU; UC.

**290 Independent Study****3 - 9 hours other, 1-3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment. This course affords students the opportunity to pursue special interests in music. Projects may include extended research on music subjects addressed in scheduled music classes as well as topics outside the music curriculum. The culmination of the course may include a written paper, presentation or performance. An Independent Study has to be arranged with, approved and monitored by a member of the music faculty. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

**Neurodiagnostic Technology (NDTE)****101 Basic Electroencephalography****3 hours lecture, 6 hours lab, 5 units****Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course covers the fundamentals of electroencephalography (EEG). The application

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**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

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**Milestone** formerly referred to as Skill Level

of electrodes, basic waveforms, artifacts and introduction to the EEG machine are covered. The course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

### 121 Neurodiagnostic Lab Practice

**1.5 hours lab, 0.5 units  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is an application of basic technical skills to successfully record routine electroencephalographic (EEG) and Evoked Potential (EP) procedures according to published American Clinical Neurophysiology Society's (ACNS) guidelines. This course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

### 131 Advanced Electroencephalography

**3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 101 and Health Information Technology 130, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course builds upon knowledge and skill acquired in basic electroencephalography (EEG) and is an introduction to the abnormal EEG, maturational changes, and the basic electronic principles upon which successful electroencephalographic techniques are based. The course is designed for students enrolled in the Neurodiagnostic Technology program. (FT) AA/AS; CSU.

### 133 Introduction to Neuroanatomy and Neurophysiology

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Medical Assisting 55, Biology 160 or Biology 230, and Biology 235, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is an introduction to the anatomy and physiology of the central and peripheral nervous systems. Related symptoms and pathologies are presented. This course is designed for students

enrolled in the Neurodiagnostic Technology program. (FT) AA/AS; CSU.

### 135 EEG Record Review

**2.5 hours lecture, 2.5 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Neurodiagnostic Technology 131 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is a practice in electroencephalograph (EEG) record review of normal adult and pediatric patients, and progresses to EEG record review of neurological patients. Technical description of normal EEG patterns lays the foundation for the remainder of the course. Emphasis is placed on abnormal EEG patterns, their classification and their correlation to clinical disorders. This course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

### 140 Directed Clinical Practice I

**6 hours other, 2 units  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 101 and Medical Assisting 78, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is the beginning clinical experience of electroencephalographic (EEG) testing on patients at an affiliated neurodiagnostic laboratory. The clinical experience provides students a supervised application of previously-learned techniques and skills. These include application of electrodes, performance of EEG testing on clinical patients, medical recordkeeping and clinical history reporting in a timely manner. The focus is on safe, legal and professional behavior. This course also fosters the development of communication skills and interpersonal relationships required for the healthcare field. Supervision of the students is provided by a neurodiagnostic technologist and/or physician of the affiliating institution and is coordinated by the college faculty. This course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

**150 Directed Clinical Practice II****6 hours other, 2 units  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 131 and Neurodiagnostic Technology 140, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is the second clinical experience in electroencephalographic (EEG) testing at an affiliated healthcare facility. The clinical experience provides students a supervised application of previously learned techniques and skills. The course builds on skills attained in the first clinical experience course including performance of EEG testing on clinical patients, medical record keeping and clinical history taking in a timely manner. The focus is on safe, legal and professional behavior. This course also fosters the development of communication skills and interpersonal relationships required for the healthcare field. Supervision of the students is provided by a neurodiagnostic technologist and/or physician of the affiliating institution and is coordinated by the college faculty. This course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

**201 Evoked Potentials****3 hours lecture, 3 hours lab, 4 units  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 101 and Neurodiagnostic Technology 133, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course includes terminology, concepts and techniques of evoked potential (EP) recording with testing modalities of visual, auditory and somatosensory systems are presented. An overview of EP instrumentation and technical concepts is included. Analysis of the clinical correlations of evoked potential testing and waveform analysis correlating to common neurological diseases is emphasized. This course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

**203 Neurologic Disorders****3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 131 and Neurodiagnostic Technology 133, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

Clinical and electroneurodiagnostic correlations to various physical conditions and disease states which are commonly dealt with in neurodiagnostic technology are covered in this course. The relationship of technologists to various medical specialties (including neurology, neurosurgery, pathology, radiology, internal medicine, and psychiatry) is emphasized. This course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

**206 Introduction to Transcranial Doppler****1 hour lecture, 1 unit  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 133 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is an introduction to transcranial Doppler (TCD) procedures and recording techniques. The basic set-up for TCD as well as changes that may be seen and heard during TCD are covered. The course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

**209 Introduction to Nerve Conduction Velocity****1 hour lecture, 1 unit  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is an introduction to nerve conduction velocity (NCV) testing procedures and recording techniques. The basic set-up for NCV and the most common changes seen during NCV are covered. The course is designed for students enrolled in the

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**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

## 220 Polysomnography Basics

**1 hour lecture, 1 unit  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is an introduction to the pathology of a variety of sleep-related disorders. The basic set-up for a polysomnogram and treatment modalities is covered. The course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

## 223 Introduction to Intraoperative Monitoring

**1.75 hours lecture, .75 hours lab, 2 units  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 201 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is an introduction to intraoperative neurophysiologic monitoring (IONM) recording strategies. Analysis of signal changes during an operation are correlated with anesthetic agents, metabolic effects, and/or the effects of surgical trauma. IONM scenarios are demonstrated and practiced in the classroom laboratory. This course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

## 226 Microcomputer Applications in Neurodiagnostics

**1.75 hours lecture, .75 hours lab, 2 units  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 131 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course covers specialized computer applications in neurodiagnostic technology. Testing modalities of electroencephalography (EEG), evoked potentials (EP), epilepsy monitoring and automated diagnostic techniques are presented. Opportunities for hands-on use of digital equipment are integrated into the classroom and during field trips. This course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

## 250 Directed Clinical Practice III

**9 hours other, 3 units  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 150 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is the third clinical experience in electroencephalographic (EEG) testing at an affiliated healthcare facility. The clinical experience provides students a supervised application of previously learned techniques and skills at an intermediate level. The course builds on skills attained in the second clinical experience course including performance of EEG testing on clinical patients, medical record keeping and clinical history taking in a timely manner. The focus is on safe, legal and professional behavior. This course also fosters the development of communication skills and interpersonal relationships required for the healthcare field. Supervision of the students is provided by a neurodiagnostic technologist and/or physician staff of the affiliating institution and is coordinated by the college faculty. This course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

## 260 Directed Clinical Practice IV

**9 hours other, 3 units  
Grade Only**

*Prerequisite:* Neurodiagnostic Technology 201 and Neurodiagnostic Technology 250, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is the fourth clinical experience in the Neurodiagnostic Technology Program and takes place at an affiliated healthcare facility. The emphasis for this course is on evoked potential (EP), advanced skills in electroencephalographic (EEG) recording and analysis, and more specialized diagnostic testing procedures (as available). The specialized areas may include intraoperative neurophysiologic monitoring (IONM), neonatal testing, long-term epilepsy monitoring, pediatric tests, transcranial doppler (TCD) studies, nerve conduction (NCV) studies and others. The clinical experience provides students a supervised application of previously learned techniques and skills at an advanced level and progressing toward entry level. The focus is on safe, legal and professional behavior. This course also fosters the development of communication

skills and interpersonal relationships required for the healthcare field. Supervision of the students is provided by a neurodiagnostic technologist and/or physician of the affiliating institution and is coordinated by the college faculty. This course is designed for students enrolled in the Neurodiagnostic Technology Program. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Nutrition (NUTR)

### 150 Nutrition

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

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. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID NUTR 110.

**Note:** Students interested in earning a Dietetic Service Supervisor Certificate of Achievement must take NUTR 150 at San Diego Mesa College.

### 153 Cultural Foods

**3 hours lecture, 3 units  
Grade Only**

*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. 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, Biology 107, Chemistry 100 and Chemistry 100L, each with a grade of “C” or better, or equivalent.

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 160 Foods for Healthy Lifestyles

**3 hours lecture, 3 units  
Grade Only**

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**

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.

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****60–300 hours other, 1–4 units  
Grade Only**

A program of on-the-job learning experiences for students employed in a job related to their major. 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 (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 370.

**Oceanography (OCEA)****101 The Oceans****3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101, and Mathematics 38, each with a grade of "C" or better, or equivalent or Milestone M30.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Science 120.

This course is a study of the major features and processes of the world's oceans. Topics include the origin and history of ocean basins; atmospheric and ocean circulation; and the dynamics of waves, tides, and coastlines. Students explore the oceans as a resource for people and analyze and evaluate human impacts on marine environments. This course is intended for all students interested in the world's oceans. (FT) AA/AS; CSU; UC.

**Personal Growth (PERG)****110 Introduction to College****1.5 hours lecture, 1.5 units  
Letter Grade or Pass/No Pass Option**

This course introduces the knowledge and skills necessary to survive and thrive during the first year in college. Students examine higher education structures, the opportunities and resources available, and the requirements to successfully complete a certificate, degree and transfer. Emphasis is placed on the transition to college learning and college life, self-reflection and self-advocacy, goal setting, academic policies, major selection and educational planning. Students develop and apply critical analysis skills, information literacy, and successful attitudes and behaviors in joining a college community. This course is intended for first time and re-entry college students. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**120 College Success and Lifelong Learning****3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*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 discovering self-motivation, accepting personal responsibility, mastering self-management, employing interdependence, gaining self-awareness, goal setting, decision-making strategies, critical and creative thinking, personal health topics, interpersonal communication, developing emotional intelligence, 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 personal and professional self-development and to the discovery of many new options for improving all aspects of their lives. This course is intended for new college students or those seeking to develop their academic and lifelong learning skills. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 130 Career – Life Planning

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

This course is designed for students interested in self-exploration, career transitions, and career-life planning in order to achieve success in a diverse society. Various assessments are utilized through a systematic approach to career development by examining values, interests, skills, and personality types. Other topics include life roles, personal self-management, decision making, and goal setting throughout the lifespan. This course is intended for students who are considering a career change or are undecided about their future career field or college major. (FT) AA/AS; CSU.

### 140 Life Skills and Personal Adjustment

**1–3 hours lecture, 1–3 units**

**Letter Grade or Pass/No Pass Option**

In this course students develop their emotional, social, educational, and professional life skills. It 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. This course is intended for students beginning college or anyone seeking to balance 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 (44), Experimental Topics (265),***

***Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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, each with a grade of “C” or better, or equivalent.

This course explores the relationship of communications and critical thinking with a focus on good reasoning and impediments to its mastery. It emphasizes the development of skills in logical analysis 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**

*Advisory:* English 101 with a grade of “C” or better, or equivalent; Mathematics 96 with a grade of “C” or better, or equivalent or Milestone 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; C-ID PHIL 210.

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

## 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, each with a grade of "C" or better, or equivalent.

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; C-ID PHIL 100.

## 102B Introduction To Philosophy: Values

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 English 105 with a grade of "C" or better, or equivalent.

This course provides an introductory study of the aims, methods, types and problems of philosophy focusing on values and their place in an individual's daily life. Materials for this survey 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. This course is for anyone interested in the origin and justification of values and their application to everyday life. (FT) AA/AS; CSU; UC; C-ID PHIL 120.

## 103 Historical Introduction To Philosophy

3 hours lecture, 3 units

Letter Grade or Pass/No Pass Option

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

This course is an introduction to the issues and problems exemplified in the process of meaningful activity in Western philosophy from the pre-Socratics to the present. Students in this course survey the major philosophers in their historical contexts. Materials may be drawn from classical and contemporary thinkers. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in History and Humanities, and

anyone interested in the history of philosophy. (FT) AA/AS; CSU; UC.

## 104A History Of Western Philosophy: Ancient to Medieval

3 hours lecture, 3 units

Letter Grade or Pass/No Pass Option

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity related to the history of western philosophy from the pre-Socratics to the close of the Medieval age. Students in this course survey representative theories and philosophical reflections related to the history of early western philosophy. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in History and Humanities, and anyone interested in the history of western philosophy. (FT) AA/AS; CSU; UC.

## 104B History of Western Philosophy: Modern to Contemporary

3 hours lecture, 3 units

Letter Grade or Pass/No Pass Option

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity related to the history of western philosophy from the Modern period through the 20th Century. Students in this course survey representative theories and philosophical reflections related to the history of philosophy from the Modern to Contemporary periods. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in History and Humanities, and anyone interested in the history of western philosophy. (FT) AA/AS; CSU; UC.

## 105 Contemporary Philosophy

3 hours lecture, 3 units

Letter Grade or Pass/No Pass Option

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

This course explores the issues and problems associated with philosophy in the 20th and 21st centuries. Emphasis is placed on the representative thinkers of the modern and post-modern eras. Students are encouraged to engage in independent

research, analysis and formulation. This course is designed for students interested in contemporary society and current events. (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, each with a grade of "C" or better, or equivalent.

This course explores issues in the philosophical study of Asian philosophy, including questions relating to the nature of the universe, the status and meaning of humankind, and the qualities characterizing the good life. 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 or English 105, each 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, each with a grade of "C" or better, or equivalent.

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity relating to the topics of human nature and human societal configurations. Students in this course survey representative theories and philosophical reflections related to the notions of human nature and human societal configurations such as the nature of society, the state, and government, with an emphasis on experiential elements of meaningful human existence, and

notions of ideal society. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in behavioral, social or political science, and anyone interested in philosophy of human nature. (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, each with a grade of "C" or better, or equivalent.

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity related to social philosophy. Students in this course survey representative theories and philosophical reflections related to the notions of social ethics and concepts in social philosophy such as types of government, the issues of sovereignty, natural law and natural rights, the philosophy of law, and issues of justice. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in pre-law, and/or political, behavioral or social sciences, and anyone interested in social philosophy. (FT) AA/AS; CSU; UC.

### 110 Philosophy of Religion

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

This course explores issues associated with the philosophical understanding of religious phenomena and belief. It analyzes philosophical arguments relating to religious beliefs and includes discussions of Western as well as non-Western belief systems. 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, each with a grade of "C" or better, or equivalent.

(FT) = A field trip may be required for this course.  
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Milestone formerly referred to as Skill Level

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity related to philosophy in literature. Students in this course survey representative theories and philosophical reflections related to the philosophical issues and themes in selected classical and/or contemporary literature such as the nature of reality, the notion of the self, the issue of choice and determinism, the problem of good and evil, the characteristics of the good life. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in literature or in the Behavioral and/or Social Sciences, and anyone interested in philosophy in literature. (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, each with a grade of "C" or better, or equivalent.

This is an introductory 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, each with a grade of "C" or better, or equivalent.

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity related to philosophy of women. Students in this course survey representative theories and philosophical reflections related to philosophy of women such as concepts of womanhood and feminism as they have found expression in mythic, classic, medieval and major modern philosophical traditions. Students are encouraged to engage in independent research, analysis and formulation. The course is intended for students pursuing women's studies and/or political, behavioral or social sciences, and anyone interested in philosophy of women. (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 or English 105, each with a grade of "C" or better, or equivalent.

This 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 is intended for students pursuing gender studies or 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.

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.

### 131 Environmental Ethics

**3 hours lecture, 3 units**

**Grade Only**

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent; Philosophy 100 with a grade of "C" or better, or equivalent.

This course allows students to gain an understanding of the field of moral philosophy as it pertains to environmental issues. Ethical theories are analyzed through application to issues such as: population growth, future generations, biodiversity, animal rights, pollution, energy use and consumption. This course is intended for students interested in Sustainability, Environmental Science, Philosophy, Biology, Sociology, Geology, Ecology, and Peace Studies. (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, each with a grade of "C" or better, or equivalent.

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. This course is designed for students who want to hone their writing and critical thinking skills in Philosophy. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Phlebotomy (PHLB)

### 70 Phlebotomy

1.5 hours lecture, 3 hours lab, 2.5 units  
Grade Only

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Phlebotomy 50. This course provides basic and advanced training in capillary puncture and venipuncture through didactic and clinical instruction as required by the State of California, Department of Health Services-Laboratory Field Services. The basic 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 advanced 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 capillary puncture and venipuncture. Students apply knowledge of theory to the clinical setting. This course is intended for students in the Phlebotomy Training Program. (FT) Not applicable to the Associate Degree.

### 80 Phlebotomy Directed Clinical Practice

72 - hours other, 1.5 units  
Grade Only

*Prerequisite:* Phlebotomy 70 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 Phlebotomy 60. This course is an unpaid clinical experience designed for students to gain additional experience in phlebotomy. Students complete 50-100 venipunctures, 10-25 capillary punctures and observe 2 arterial punctures at an appropriate clinical site. Students apply knowledge of theory

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
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Milestone formerly referred to as Skill Level

to the clinical setting. This course is intended for students in the Phlebotomy Training Program. (FT) Not applicable to the Associate Degree.

## 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.

This course is an introductory survey of the fundamental concepts of astronomy, geology, chemistry and physics. Emphasis is placed on the interrelationships among these disciplines and the ways in which the physical sciences affect modern life. This course is intended for students with a general interest in the physical sciences. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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.

This course introduces students to the physical science laboratory and is designed to demonstrate the fundamental concepts of astronomy, geology, chemistry, physics and/or the earth sciences. Emphasis is placed on scientific method and collaborative learning. This course is designed for all students interested in the physical sciences. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 105 Physical Science for Elementary Education

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 48, English 49 and Mathematics 46, each with a grade of "C" or better, or equivalent or Milestone R50, W50 and M30.

This course is an introductory survey of fundamental concepts in physics and chemistry. Emphasis is placed on the ways in which physical science principles are relevant to societal issues, such as energy use and environmental sustainability. This course is especially designed for those interested in teaching science in a primary school setting in which

students must understand scientific methodologies and master content in the physical sciences. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 114 Weather and Climate

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

This course is an introduction to weather and climate. Emphasis is placed on the principles of solar radiation and energy transfer, atmospheric structure and composition, cloud development, precipitation, atmospheric pressure, and winds. Topics include the origin and development of storms, the greenhouse effect, and Earth's changing climate. The scientific method is illustrated as it relates to analyzing meteorologic problems. This course is appropriate for students with an interest in weather and climate. (FT) AA/AS; CSU; UC.

### 215 Introduction to Teaching Science

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50.

*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 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on***

page 316. Please refer to the class schedule and/or see the dean or department chair for availability.

## Physical Therapist Assistant (PHYR)

### 210 Introduction to Physical Therapy 2 hours lecture, 2 units Grade Only

*Limitation on Enrollment:* This course is not open to students with previous credit for Physical Therapist Assistant 110 or Physical Therapist Assistant 50. This course provides general information regarding the field of physical therapy to those persons who have been admitted into the program or who have an interest in the profession of physical therapy. The course focuses on the history, development, goals and current issues of the profession and the American Physical Therapy Association (APTA). General legal and ethical principles, as well as state laws, relating to the delivery of physical therapy services are examined. The relationship of physical therapy 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 are explored. This course fosters the development of communication skills, interpersonal relationships, collaboration, and professionalism required for the health care field. The need of the health care worker to develop a therapeutic presence which includes sensitivity to diversity and cultural competency are also presented. (FT) AA/AS; CSU.

### 215 Documentation Skills 1 hour lecture, 1 unit Grade Only

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course provides an introduction to basic abbreviations, medical terminology for physical therapy, and review of patients' medical and treatment documentation. Students will learn the formats used in both paper and electronic medical record documentation. Emphasis will be placed on accurate and timely documentation that is consistent with institutional, legal, and billing requirements. (FT) AA/AS; CSU.

### 220 Growth, Development, and Aging 3 hours lecture, 3 units Grade Only

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course will introduce physical therapist assistant (PTA) students to concepts and physical therapy principles applied to the development process from conception through aging. Topics will include normal and abnormal growth and development from conception, through adolescence, and adulthood. Emphasis will be placed on the developmental sequence, testing, and treatment principles in pediatrics, as well as aging changes that affect function in geriatric rehabilitation. Appropriate nutrition and wellness concepts across the lifespan will be considered. (FT) AA/AS; CSU.

### 225 Acute Care Techniques 2 hours lecture, 2 units Grade Only

*Corequisite:* Physical Therapist Assistant 225L. *Limitation on Enrollment:* Special Admission - must be admitted to program. This lecture course provides the future Physical Therapist Assistant (PTA) with an exposure to the duties that relate to the PTA scope of practice with an emphasis on the acute and post-acute care settings. These duties include the principles of patient care management, safety within the facility, vital signs, patient positioning, basics of transfer and gait training with assistive devices for general orthopedic problems, wheelchair safety, basic wound care management to include universal precautions and infection control, and appropriate selection and progression of interventions based on physical therapist's plan of care. The course also fosters the development of communication skills, interpersonal relationships, and professionalism required for the health care field. (FT) AA/AS; CSU.

### 225L Acute Care Techniques Lab 6 hours lab, 2 units Grade Only

*Corequisite:* Physical Therapist Assistant 225.

(FT) = A field trip may be required for this course.  
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CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This laboratory course provides the future Physical Therapist Assistant (PTA) with an exposure to the duties related to the PTA scope of practice with an emphasis on the acute and post-acute care settings. These duties include the principles of patient care management, safety within the facility, vital signs, patient positioning, basics of transfer and gait training with assistive devices for general orthopedic problems, wheelchair safety, basic wound care management to include universal precautions and infection control, and appropriate selection and progression of interventions based on physical therapist's plan of care. The course also fosters the development of communication skills, interpersonal relationships, and professionalism required for the health care field. (FT) AA/AS; CSU.

### **230 Introduction To Human Movement** **2 hours lecture, 3 hours lab, 3 units** **Grade Only**

*Advisory:* Biology 160 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 114 or Physical Therapist Assistant 54. This lecture and lab course introduces the student Physical Therapist Assistant to the relationship between physical laws and the biomechanical principles of joint motion. The concepts of normal posture and human locomotion are contrasted with obvious posture and gait deviations. An understanding of kinesiology is applied to major joints in the body utilizing basic exercise applications for patients/clients with common orthopedic and neurologic conditions. (FT) AA/AS; CSU.

### **240 Introduction to Pathology** **3 hours lecture, 3 units** **Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 122 or Physical Therapist Assistant 62. 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 with an emphasis

on identification of red flags that may occur with various pathologies and impact treatment decisions. (FT) AA/AS; CSU.

### **250 Introduction to Therapeutic Exercise** **1 hour lecture, 3 hours lab, 2 units** **Grade Only**

*Prerequisite:* Physical Therapist Assistant 230 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 63 or Physical Therapist Assistant 123. This lecture and lab course provides physical therapist assistant (PTA) students with the basic principles of therapeutic exercise and measurement techniques used in the field of physical therapy. Students will learn and practice the following skills: range of motion, goniometry, manual muscle testing, and proprioceptive neuromuscular facilitation. Basic upper and lower extremity exercises will be introduced. (FT) AA/AS; CSU.

### **260 Topics in Neurology and Rehabilitation** **2 hours lecture, 2 units** **Grade Only**

*Prerequisite:* Physical Therapist Assistant 225 and Physical Therapist Assistant 225L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Physical Therapist Assistant 260L.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 138 or Physical Therapist Assistant 78. This course provides physical therapist assistant (PTA) students with the principles of functional activities and rehabilitation procedures relating to the management of clients with neurological diagnoses. Topics include rehabilitation of cerebral vascular accidents, traumatic brain injuries, spinal cord injuries, other neurological conditions, cardiopulmonary conditions, amputations, lymphedema, and pediatric conditions. The focus is on the safe, legal, ethical and appropriate use of rehabilitation procedures including physiological and therapeutic effects of treatment. The course also fosters the development of communication skills, interpersonal relationships, and professionalism required for the health care field. (FT) AA/AS; CSU.



## 260L Topics in Neurology and Rehabilitation Lab

**6 hours lab, 2 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 225 and Physical Therapist Assistant 225L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Physical Therapist Assistant 260.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 78L or Physical Therapist Assistant 138L. This course for physical therapist assistant (PTA) students deals with the clinical application of functional activities and rehabilitation procedures relating to the management of clients with neurological diagnoses. Topics include rehabilitation of cerebral vascular accidents, traumatic brain injuries, spinal cord injuries, other neurological conditions, cardiopulmonary conditions, amputations, lymphedema, and pediatric conditions. The focus is on the safe, legal, ethical and appropriate use of rehabilitation procedures including physiological and therapeutic effects of treatment. The course also fosters the development of communication skills, interpersonal relationships, and professionalism required for the health care field. (FT) AA/AS; CSU.

## 263 Patient Management

**3 hours lab, 1 unit  
Grade Only**

*Advisory:* Physical Therapist Assistant 240, 250, and 260, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This laboratory course provides physical therapist assistant (PTA) students with an opportunity to apply knowledge and skills from previous courses to actual patient scenarios. Students will review patient evaluations including plans of care and design appropriate beginning, intermediate, and advanced treatment plans. Emphasis will be placed on developing critical thinking and communication skills needed in a patient care environment. (FT) AA/AS; CSU.

## 264 Therapeutic Modalities

**1.5 hours lecture, 1.5 units  
Grade Only**

*Corequisite:* Physical Therapist Assistant 264L.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This lecture course introduces the student Physical Therapist Assistant to the fundamental principles, physiological effects, and application techniques in the use of biophysical agents. Biophysical agents include soft tissue mobilization, thermotherapy, cryotherapy, compression therapy, hydrotherapy, ultrasound, electrotherapy, biofeedback, light therapy, and manual/mechanical traction procedures. Emphasis will be placed on indications, contraindications, and safe application of the above techniques, as well as assessment of technique effectiveness. The course also fosters development of patient communication and appropriate documentation of modality treatments. (FT) AA/AS; CSU.

## 264L Therapeutic Modalities Lab

**4.5 hours lab, 1.5 units  
Grade Only**

*Corequisite:* Physical Therapist Assistant 264.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This lab course introduces the student Physical Therapist Assistant to the fundamental principles, physiological effects, and application techniques in the use of biophysical agents. Biophysical agents include soft tissue mobilization, thermotherapy, cryotherapy, compression therapy, hydrotherapy, ultrasound, electrotherapy, biofeedback, light therapy, and manual/mechanical traction procedures. Emphasis will be placed on indications, contraindications, and safe application of the above techniques, as well as assessment of technique effectiveness within the laboratory setting. The course also fosters development of patient communication and appropriate documentation of modality treatments. (FT) AA/AS; CSU.

## 275 Orthopedic Exercise and Rehabilitation

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 250 with a grade of "C" or better, or equivalent.

*Corequisite:* Physical Therapist Assistant 275L.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to

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Milestone formerly referred to as Skill Level

students with previous credit for Physical Therapist Assistant 137 or 77.

This lecture course provides the physical therapist assistant student with a kinesiology based approach to the clinical applications used in the treatment and rehabilitation of the patient/client with orthopedic and related diagnoses. The focus is on safe, legal, ethical, and appropriate use of manual and therapeutic exercise interventions and screening assessment procedures within the physical therapist assistant scope of practice. The course fosters the development of critical thinking skills needed in the consideration of indications, precautions, contraindications, along with physiological and therapeutic effects of various techniques as applied to various orthopedic and related diagnoses. (FT) AA/AS; CSU.

### **275L Orthopedic Exercise and Rehabilitation-Lab**

**6 hours lab, 2 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 250 with a grade of "C" or better, or equivalent.

*Corequisite:* Physical Therapist Assistant 275.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 137L or 77L.

This lab course provides the physical therapist assistant student with a kinesiology based approach to the clinical applications used in the treatment and rehabilitation of the patient/client with orthopedic and related diagnoses. The focus is on safe, legal, ethical and appropriate use of manual and therapeutic exercise interventions and screening assessment procedures within the physical therapist assistant scope of practice. Students will demonstrate the critical thinking skills needed in the application and modification of physical therapy interventions including indications, precautions, contraindications, and physiological and therapeutic effects of various techniques as applied to various orthopedic and related diagnoses. In addition, this course fosters the development of communication skills, interpersonal relationships, and professionalism required in the health care field. (FT) AA/AS; CSU.

### **280 Organization of Physical Therapy**

**2 hours lecture, 2 units  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Physical Therapist Assistant 141 or 81.

This course provides physical therapist assistant (PTA) students with the fundamentals of ethics, values, and responsibilities in physical therapy as described by legal practice standards, including federal, state, and institutional regulations related to patient/client care and fiscal management. Topics include American Physical Therapy Association (APTA) guidelines for ethics and values, California Physical Therapy Practice Act and regulations, reporting requirements, insurance regulations, productivity, management, supervision, performance evaluations, professional liability insurance, career development, lifelong learning, and leadership skills. Students will assess their strengths and limitations as a PTA and their reactions to illness and disability with a diverse patient population. (FT) AA/AS; CSU.

### **291 Directed Clinical Practice I**

**9 hours other, 3 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 225, 225L, and 250, 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 142A, 70, or 292.

This course provides the Physical Therapist Assistant (PTA) student a moderate to maximum supervised application of previously learned techniques and skills in the rehabilitation of patients in one selected clinical facility affiliated with the college. The focus is on intermediate level application in the safe, legal, ethical and effective use of physical therapy interventions. Emphasis is placed on intermediate level skills of professional communication and interpersonal relationships necessary for the healthcare field. Students are placed in either an inpatient or outpatient facility. Supervision of the student is at the intermediate level progressing to advanced intermediate, and is provided by the staff of the affiliating institution and is coordinated by the college faculty. This course is the first of three Directed Clinical Practice courses in the PTA program. (FT) AA/AS; CSU.

**295 Directed Clinical Practice II****15 hours other, 5 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 291 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 80 or 294.

This course provides the Physical Therapist Assistant (PTA) student a minimum to moderate supervised application of previously learned techniques and skills in the rehabilitation of patients in one selected clinical facility affiliated with the college. The focus is on advanced intermediate level application in the safe, legal, ethical and effective use of physical therapy interventions. Emphasis is placed on advanced intermediate level skills of professional communication and interpersonal relationships necessary for the healthcare field. Students are placed in either an inpatient or outpatient facility. Supervision of the student is at the advanced intermediate level progressing to entry-level, and is provided by the staff of the affiliating institution and is coordinated by the college faculty. This course is the second of three Directed Clinical Practice courses in the PTA program. (FT) AA/AS; CSU.

**298 Directed Clinical Practice III****15 hours other, 5 units  
Grade Only**

*Prerequisite:* Physical Therapist Assistant 295 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 80 or 297.

This course provides the Physical Therapist Assistant (PTA) student a minimum to entry-level supervised application of previously learned techniques and skills in the rehabilitation of patients in one selected clinical facility affiliated with the college. The focus is on entry-level application in the safe, legal, ethical and effective use of physical therapy interventions. Emphasis is placed on entry-level skills of professional communication and interpersonal relationships necessary for the healthcare field. Students apply a higher level of critical thinking related to the implementation, modification and progression of physical therapy rehabilitation programs. Although under the supervision of a physical therapist, students are expected to apply their skills independently with minimal input from

the clinical instructor. Students are placed in either an inpatient or outpatient facility. Supervision of the student is at the minimal level progressing to entry-level, and is provided by the staff of the affiliating institution and is coordinated by the college faculty. This course is the final of three Directed Clinical Practice courses in the PTA program. (FT) AA/AS; CSU.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or (270). Detailed course descriptions are listed on page 316. 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**

*Prerequisite:* Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50.

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, and atomic and nuclear physics. Emphasis is on the conceptual aspects, including explanation of natural phenomena. Concepts are reinforced through laboratory work. (FT) AA/AS; CSU; UC.

**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.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

*Limitation on Enrollment:* This course is not open to students with previous credit for Physics 120A, Physics 124A, Physics 125A, Physics 181A or Physics 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID PHYS 105.

## 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, Physics 124B, Physics 125B, Physics 181B, Physics 195B or Physics 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, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID PHYS 110.

## 180A General Physics I

**4 hours lecture, 4 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 116 with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Mathematics 121 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 and Physics 125A or Physics 124A.

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 in order to make calculations and solve fundamental physics problems. This course is designed for students interested in biological sciences. (FT) AA/AS; CSU; UC.

## 180B General Physics II

**4 hours lecture, 4 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Physics 180A and Mathematics 121, each with a grade of "C" or better equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physics 120B and Physics 125B or credit or concurrent enrollment in PHYS 124B.

This course is an introductory survey of the concepts and principles of physics. Emphasis is placed on developing an understanding of the properties of electricity, magnetism, light and modern physics in order to make calculations and solve fundamental physics problems. This course is designed for students interested in biological sciences. (FT) AA/AS; CSU; UC.

## 181A General Physics Laboratory I

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in: Physics 180A with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physics 121A.

This laboratory course is a hands-on study of the properties of matter, mechanics, heat and sound through laboratory experiments. This course is designed for students interested in the biological sciences. (FT) AA/AS; CSU; UC.

## 181B General Physics Laboratory II

**3 hours lab, 1 unit**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Physics 180A with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Physics 180B with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Physics 121B.

This laboratory course is a hands-on study of the principles of electricity, magnetism, light and modern physics through laboratory experiments. This course is designed for students interested in the biological sciences. (FT) AA/AS; CSU; UC.

## 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.

*Advisory:* 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 previous credit for Physics 195A and Physics 196A.

This is the first of a three-semester calculus-based general physics sequence designed for scientists and engineers. Topics include linear kinematics, Newton’s Laws, energy, rotational kinematics, rigid-body rotation, momentum, fluid mechanics, gravity, oscillatory motion, and thermodynamics. This course is intended for students majoring in the physical sciences or engineering. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID PHYS 205.

### 196 Electricity and Magnetism

**4 hours lecture, 3 hours lab, 5 units  
Grade Only**

*Prerequisite:* Physics 195 and Mathematics 151, each with a grade of “C” or better, or equivalent.

*Advisory:* Mathematics 252 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 course of a three-semester calculus-based general physics sequence. Topics 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 (DC) and alternating current (AC) circuits is included. This course is intended for students majoring in the physical sciences or engineering. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID PHYS 210.

### 197 Waves, Optics and Modern Physics

**4 hours lecture, 3 hours lab, 5 units  
Letter Grade or Pass/No Pass Option**

*Prerequisite:* 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.

This is the third semester of a three semester calculus-based Physics 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. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID PHYS 215.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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 101 with a grade of “C” or better, or equivalent.

This course is an introduction to the field of political science. Emphasis is placed on the concepts and methodologies used in the study of political institutions, political participation, public opinion, and the international political system. Other topics include a survey of political theory and the history of American political ideology and culture. This course is intended for students majoring in Political Science and those interested in the field of political science. (FT) AA/AS; CSU; UC; C-ID POLS 150.

### 102 Introduction to American Government

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

This comprehensive survey course provides an in-depth study of American Government, including both the Federal government and the California government. The Federal and California

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**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

governments are studied from the perspective of constitutional frameworks and political institutions, processes, issues, and policies. Other topics include political participation; political parties and interest groups; social movements and minorities; civil liberties; and the role of political ideology, culture, and the mass media in shaping public opinion and policymaking. This course is intended for transfer students, political science majors, or students interested in American government. (FT) AA/AS; CSU; UC; C-ID POLS 110.

### 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.

*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; C-ID POLS 130.

### 121 American Political Development

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course provides an overview of American political development. Students engage in a historical analysis of the evolution of governmental institutions in the United States, and study how political ideas, political practices, and political actors (including ethnic groups, women, political parties, interest groups, and social movements) shape and are shaped by these institutional factors. This course is intended for transfer students, political science majors, or students interested in the American political system. AA/AS; CSU; UC.

### 123 Gender and 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.

This course explores central issues in the study of gender and politics. Topics include the impact of

gender on political representation, participation, law and the state, political violence, and the global economy. It draws on contemporary examples from the United States and around the world. This course is intended for women's studies majors, political science majors, transfer students, and students interested in these topics. AA/AS; CSU; UC.

### 124 Introduction to Political Theory: Power and Justice

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is an exploration of the relationship between power and justice in modern society. Topics include various accounts of the meaning of power and justice, how political institutions harness power, and the ways in which political power can both impede and advance justice. Materials include classic and contemporary texts, films, and literature. This course is intended for political science majors, transfer students, and students interested in these topics. AA/AS; CSU; UC.

### 140 Contemporary International 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.

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. This course is intended for students majoring in political science or anyone with an interest in world politics. (FT) AA/AS; CSU; UC; C-ID POLS 140.

### 201 Elementary Statistics for Political Science

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 92, or Mathematics 96, or Mathematics 109, each with a grade of "C" or better or equivalent; or Milestone M40 or M50; or

*Corequisite:* Students with Milestone M30 or above may enroll in LCOM 201X (which pairs Political Science 201 with support course Political Science 31).

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

This is an introductory course on statistical methods for political and social sciences. Emphasis is placed on basic data analysis techniques as well as elementary statistical and probability concepts. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis based on data from disciplines including business, social and behavioral sciences, life science, health science, and education. This course is designed for Political Science majors, other Social Sciences majors, and anyone interested in statistics. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID SOCI 125.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Psychology (PSYC)

### 31 Social and Behavioral Sciences Statistics Support

**1 hour lecture, 1 unit  
Grade Only**

*Corequisite:* Psychology 258.

*Limitation on Enrollment:* This course is not open to students with previous credit for Political Science 31. This course provides additional hands-on experience in basic mathematical and statistical concepts. Students review key terms and definitions and practice foundational skills. This course is intended for students who require additional support to succeed in transfer-level Social and Behavioral Science statistics course. (FT) Not applicable to the Associate Degree.

### 101 General 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.

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; C-ID PSY 110.

### 111 Psychological/Social Aspects of Aging, Death, and Dying

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

This course is a study of the psychological, physiological and social factors influencing behavior throughout the aging process, including the aspects of death and dying. This course is intended for students majoring in psychology and for all students interested in the psychology of aging. (FT) AA/AS; CSU; UC.

### 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.

This course explores human behavior in the context of a variety of interpersonal relationships including family, group, personal, and workplace. Both in-person and technology-aided interactions are discussed. Topics include the science of interpersonal relations, dynamics of verbal and nonverbal communication, listening, cultural differences, self-disclosure, trust, group process, and conflict resolution. This course is intended for students with an interest in psychology and interpersonal relations. (FT) AA/AS; CSU; UC.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**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.

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

**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.

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, and 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.

**133 Psychology of Women****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

This course is a study of the psychology of women, the nature of women’s lives, and the various roles that women play. Emphasis is placed on an historical, ethnic, and cross-cultural treatment of women in the United States and abroad. Topics include women’s sexuality, health, lifespan development, and socio-political status in the world today. This course is intended for psychology and women’s studies majors. (FT) AA/AS; CSU; UC.

**135 Marriage and Family 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.

This course is a study of the behaviors related to courtship, engagement, marriage, and family life. Emphasis is placed on the historical, cross-cultural, and social perspectives of families. Topics include interpersonal communication, economic

management, and sexuality as they relate to the family. This course is intended for psychology and child development majors as well as all students interested in the psychology of interpersonal communication. (FT) AA/AS; CSU; UC.

**137 Human Sexual Behavior****3 hours lecture, 3 units****Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

This course is a study of the psychological, social, and physiological dimensions of human sexual behavior. Emphasis is placed on the diversity of human sexual development and current research. This course is designed for psychology majors and all students interested in human sexual behavior and related issues. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org

**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.

This course is a survey of the fundamental personality theories. Emphasis is placed on the personal life experiences of each of the major personality theorists, their research and assessment methods, and 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.

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 counseling psychology. (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.

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; C-ID PSY 170.

**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. This course is a study of the basic principles and research in animal and human learning. Topics include scientific versus nonscientific approaches to behavior studies, operant and respondent conditioning, observational and cognitive learning, and motivation as related to self-control. This course is designed for students majoring in psychology or interested in the field. 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 a study of the psychological development of humans in all their sociocultural diversity from conception to death. Emphasis is placed on the major theoretical paradigms related to growth and change and the variety of factors that shape similarities and differences in life. This course is intended for students majoring in psychology. (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.

This course is a comprehensive survey of recognized patterns of abnormal behavior. Emphasis is placed on the theoretical models as they relate to assessment, diagnoses, etiology, treatment, and prognosis of recognized disorders. 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 and Psychology 258 or Mathematics 119 or Biology 200, each 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 use the American Psychological Association writing style for empirical report writing. This course is intended for psychology majors and majors with components of the research process. AA/AS; CSU; UC; C-ID PSY 200.

**258 Behavioral Science Statistics**  
**3 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Mathematics 92 or Mathematics 96, each with a grade of "C" or better or equivalent; or Milestone M40 or M50; or

(FT) = A field trip may be required for this course.  
 AA/AS = Associate Degree Applicable  
 CSU = California State University Applicable  
 UC = University of California Applicable  
 Milestone formerly referred to as Skill Level

*Corequisite:* Students with Milestone M30 or above may enroll in LCOM 258X (which pairs Psychology 258 with support course Psychology 31).

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

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. Topics include data collection; descriptive and inferential statistics; sampling distributions; measures of central tendency, dispersion, relative standing, and relationship; probability; prediction; hypothesis evaluation; and tests for treatment effects. This course is intended for students majoring in the behavioral/social sciences or those interested in applied statistics. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID SOCI 125.

**259 Behavioral Science Statistics Laboratory**  
**3 hours lab, 1 unit**  
**Letter Grade or Pass/No Pass Option**

*Corequisite:* Completion of or concurrent enrollment in Psychology 258 with a grade of “C” or better, or equivalent.

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; C-ID PSYC 258 + PSYC 259 = MATH 110.

**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.

This course is a study of the biological bases of behavioral and cognitive processes. Emphasis is placed on neuroanatomy and neurophysiology as a means for understanding how basic neurological processes impact perception, movement, consciousness, sexuality, hunger, emotions, and mental disorders. This course is designed for students majoring in Psychology and all students interested in physiological psychology. (FT) AA/AS; CSU; UC; C-ID PSY 150.

**276 Field Work in Psychological Services**  
**2 hours lecture, 48 - hours other, 3 units**  
**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of “C” or better, or equivalent.

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 situations. This course is intended for students who want to work with people in human care services. (FT) AA/AS; CSU.

**283 Introduction to Cognitive Psychology**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Psychology 101 with a grade of “C” or better, or equivalent.

This course is a study of the theory and research on cognitive processes. Emphasis is placed on perception, attention, learning, memory, language, thought, visual cognition, problem solving, and applications of cognitive psychology. This course is intended for students majoring in psychology and all students interested in cognitive processes. (FT) AA/AS; CSU; UC.

**401 Organizational Psychology for the Healthcare Professional**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Psychology 101 with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* Must be admitted to the Health Information Management program.

This course examines the methodology and content of Industrial and Organizational Psychology (I/O) Psychology. This is the branch of psychology that examines people in the workplace and all the factors that affect how people behave at work. The concepts include individual, group, and organizational issues that enhance the understanding of the world of healthcare. Research findings involved in the study of how people behave, think about, influence, and interact with each other at work, with an emphasis on factors that affect job performance are also discussed. This course is designed for health information management majors. (FT)

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Radiologic Technology (RADT)

### 50 Concepts in Imaging Technology

**2 hours lecture, 2 units  
Grade Only**

*Advisory:* Biology 160 with a grade of "C" or better, or equivalent.

This is an introductory course for students admitted into the Radiologic Technology. Topics include the diagnostic x-ray system, radiographic body positions and projections, x-ray production and units, radiation safety, basic exposure and image receptor techniques, introductory patient care, safety and healthcare communication. Emphasis is on strong mathematical, scientific and communication skills. AA/AS.

### 60 Venipuncture for Radiology

**1.5 hours lab, .5 units  
Grade Only**

*Advisory:* Biology 160 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course provides students with supervised training in venipuncture and meets the California Health and Safety Code requirements for venipuncture certificate. This course is for Radiologic Technology students and community Radiologic Technologists. AA/AS.

### 86 Fluoroscopy and Radiation Safety

**2.5 hours lecture, 2.5 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 240 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 Radiologic Technology 85.

This is an advanced course in fluoroscopy and radiation protection for students enrolled in the Radiologic Technology program. Topics include 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. (FT) AA/AS.

### 86L Fluoroscopy and Radiation Safety Laboratory

**1.5 hours lab, .5 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 86 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 Radiologic Technology 85L.

This course is for students enrolled in the Radiologic Technology program. Laboratory activities 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. (FT) AA/AS.

### 101 Basic Radiologic Technology

**2 hours lecture, 2 units  
Grade Only**

*Advisory:* English 101 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 Radiologic Technology 105.

This is an introductory course for students in the Radiologic Technology program. Topics include the role and function of the radiographer, professional organizations, medicolegal principles, state and federal regulations, radiographic terminology, basic

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

radiation production and radiation safety. (FT) AA/AS; CSU.

### 110 Recording Media

**2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 121 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

Topics in this course include various image receptors and mechanisms utilized to acquire, display, archive and retrieve digital images in computed radiography (CR) and digital radiography (DR) formats of diagnostic radiology. Principles of digital system quality assurance and maintenance are presented. This course is for students enrolled in the Radiologic Technology program. (FT) AA/AS; CSU.

### 121 Radiographic Exposure

**3 hours lecture, 3 units  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Radiologic Technology 120A or Radiologic Technology 121A. This is a course for students in the Radiologic Technology program. Topics include the selection of proper exposure factors and accessories to obtain optimal image quality while reducing patient dose. (FT) AA/AS; CSU.

### 121C Radiographic Exposure Laboratory

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 121 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 Radiologic Technology 120B, Radiologic Technology 121L, or Radiologic Technology 121B.

This is a laboratory course for students in the Radiologic Technology program. Topics include radiation safety, selection of exposure factors, image processing and evaluation of image quality. (FT) AA/AS; CSU.

### 131 Patient Care

**3 hours lecture, 3 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 190 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 Radiologic Technology 130.

This is an introductory level course for students enrolled in the Radiologic Technology program. Topics include integrated patient care within the radiology department, physical and psychological needs of the patient, patient privacy laws, patient safety and assessment, routine and emergency patient care procedures, body mechanics with patient transfer, infection control, venipuncture assisting, use of contrast media, common drug nomenclature and basic concepts of pharmacology. (FT) AA/AS; CSU.

### 190 Radiographic Positioning I

**1 hour lecture, 1 unit  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 131 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 Radiologic Technology 199.

This is an introductory level lecture course for students enrolled in the Radiologic Technology program. Topics include radiographic positioning and image critique of the chest, abdomen, pelvis and extremities. (FT) AA/AS; CSU.

### 190L Radiographic Positioning-I Laboratory

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 190 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 Radiologic Technology 199.

This is an introductory laboratory for students in the Radiologic Technology program. Topics include radiographic positioning and image critique of the chest, abdomen, pelvis and extremities. (FT) AA/AS; CSU.

## 192 Image Analysis for Radiologic Technology

**2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 256C and Radiologic Technology 110, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course is designed for students enrolled in the Radiologic Technology program. Topics include image analysis criteria for: chest and abdomen; upper extremity; shoulder; lower extremity; pelvis, hip and sacroiliac joints; cervical and thoracic vertebrae; sternum and ribs; lumbar, sacral and coccyx vertebrae; some cranium, facial bones and paranasal sinuses; and digestive system. (FT) AA/AS; CSU.

## 201 Radiographic Positioning II

**1 hour lecture, 1 unit  
Grade Only**

*Prerequisite:* Radiologic Technology 190 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 Radiologic Technology 200.

This is an intermediate course for students in the Radiologic Technology program. Course topics include radiographic positioning and image critique of the vertebral column, as well as shoulder girdle, bony thorax and some advanced and/or uncommon orthopedic views of extremities and pelvis. (FT) AA/AS; CSU.

## 201L Radiographic Positioning II Laboratory

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 201 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 Radiologic Technology 200.

This is an intermediate laboratory course for students in the Radiologic Technology program. Course topics include radiographic positioning and image critique of the vertebral column, as well as shoulder girdle, bony thorax and some advanced

and/or uncommon orthopedic views of extremities and pelvis. (FT) AA/AS; CSU.

## 210 Radiographic Positioning III

**1 hour lecture, 1 unit  
Grade Only**

*Prerequisite:* Radiologic Technology 201 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 Radiologic Technology 211.

This is an advanced course for students in the Radiologic Technology program. Course topics include radiographic positioning and image critique of cranial structures and contrast media examinations of the gastrointestinal, urinary, musculoskeletal, reproductive, vascular and central nervous systems. Mobile and trauma procedures are also discussed. (FT) AA/AS; CSU.

## 210L Radiographic Positioning III Lab

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 210 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 Radiologic Technology 211.

This is an advanced course for students in the Radiologic Technology program. Course topics include laboratory radiographic simulation and image critique of cranial structures and contrast media examinations of the gastrointestinal, urinary, musculoskeletal, reproductive, vascular and central nervous systems. Mobile and trauma procedures are also discussed. (FT) AA/AS; CSU.

## 221 Advanced Imaging Techniques

**2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 121 with a grade of "C" or better, or equivalent.

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Radiologic Technology 220.

This is an advanced level course for students in the Radiologic Technology program. Topics include radiographic digital imaging, quality control and quality assurance, as well as introductory concepts in advanced imaging modalities, including Computed Tomography (CT), Magnetic Resonance (MR), Cardiac Interventional (CI), Vascular Interventional (VI), Ultrasound (US), Nuclear Medicine (NM) and Dual Energy X-ray Absorptiometry (DEXA). (FT) AA/AS; CSU.

### **230 Radiologic Science**

**2 hours lecture, 2 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 121 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This is a course for students in the Radiologic Technology program. Topics include the theoretical principles in radiation physics, x-ray production, interaction of x-rays with matter and the function of x-ray equipment components. (FT) AA/AS; CSU.

### **231 Pathology for Imaging Sciences**

**32 - 36 hours lecture, 2 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 210 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This is an advanced course for students in the Radiologic Technology Program. Topics include: Pathologic Processes and Imaging Strategies for the Skeletal, Respiratory, Gastrointestinal, Hepatobiliary, Urinary, Reproductive, Circulatory, Nervous and Endocrine Systems. Contrast media selection and use for pathologic visualization is also discussed. This course is designed for students admitted into the Radiologic Technology program. (FT) AA/AS; CSU.

### **240 Radiation Biology**

**1 hour lecture, 1 unit  
Grade Only**

*Corequisite:* Radiologic Technology 230.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This course includes an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues and the body as a whole are presented. Factors affecting biological responses are also presented, including acute and chronic effects of radiation. This course is for students enrolled in the Radiologic Technology program. (FT) AA/AS; CSU.

### **241 Sectional Anatomy**

**1 hour lecture, 1 unit  
Grade Only**

*Corequisite:* Radiologic Technology 275.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This is an advanced course for students in the Radiologic Technology program. Topics include differentiation of head, neck, thorax, abdomen, pelvis and extremity anatomy demonstrated on sectional images from various imaging modalities. (FT) AA/AS; CSU.

### **242 Organization of Radiology**

**1 hour lecture, 1 unit  
Grade Only**

*Corequisite:* Radiologic Technology 257C.

*Limitation on Enrollment:* Special Admission - must be admitted to program.

This is an advanced level course for students in the Radiologic Technology program. Emphasis is placed on radiologic technologist responsibilities, compliance, imaging advancements and certifications. (FT) AA/AS; CSU.

### **256A Directed Clinical Practice I**

**15 hours other, 5 units  
Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 131, Radiologic Technology 190, and Radiologic Technology 190L, 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 Radiologic Technology 251A or Radiologic Technology 254A. This is a beginning level course for students in the Radiologic Technology program. This course provides students with supervised clinical training at a District clinical affiliate. Topics include basic patient and radiographic care, medical ethics and safety, and effective healthcare communication. Exam competency focuses on basic exposure principles

and radiographic procedures of the chest, thorax, abdomen, pelvis and extremities. Supervision is shared by the staff of the clinical education center and college faculty. (FT) AA/AS; CSU.

### 256B Directed Clinical Practice II

**22.5 hours other, 7.5 units  
Grade Only**

*Prerequisite:* Radiologic Technology 256A with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 121, Radiologic Technology 121C, Radiologic Technology 201, and Radiologic Technology 201L, 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 Radiologic Technology 251C, Radiologic Technology 251B, or Radiologic Technology 254B.

This is a course for students in the Radiologic Technology program. This course provides students with supervised clinical training at a District clinical affiliate. Topics include increased skills in patient and radiographic care, medical ethics and safety, and effective healthcare communication. Exam competency focuses on basic exposure principles and radiographic procedures of the spine and fluoroscopic procedures of the gastrointestinal, urinary and biliary systems. Supervision is shared by the staff of the clinical education center and college faculty. (FT) AA/AS; CSU.

### 256C Directed Clinical Practice III

**18 hours other, 6 units  
Grade Only**

*Prerequisite:* Radiologic Technology 256B with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 192 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 Radiologic Technology 252A or Radiologic Technology 254C. This is an intermediate course for students in the Radiologic Technology program. Course material provides students with supervised clinical training at a District clinical affiliate. Topics include the advancement of patient care and radiographic skills while employing appropriate medical ethics and safety and effective healthcare communication. Supervision is shared by the staff of the clinical

education center and college faculty. (FT) AA/AS; CSU.

### 257A Directed Clinical Practice IV

**22.5 hours other, 7.5 units  
Grade Only**

*Prerequisite:* Radiologic Technology 256C with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 210, Radiologic Technology 210L, Radiologic Technology 221, Radiologic Technology 230, and Radiologic Technology 231, 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 Radiologic Technology 252B or Radiologic Technology 255A. This is an advanced course for students in the Radiologic Technology program. This course provides students with supervised clinical training at a District clinical affiliate. Topics include the advancement of skills in patient care and radiographic skills while employing appropriate medical ethics, safety and effective healthcare communication. Exam competency focuses on radiographic procedures of cranio-facial structures and fluoroscopic examinations of the musculoskeletal, reproductive, vascular and central nervous systems. Supervision is shared by the staff of the clinical education center and college faculty. (FT) AA/AS; CSU.

### 257B Directed Clinical Practice V

**360 - hours other, 7.5 units  
Grade Only**

*Prerequisite:* Radiologic Technology 257A with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 86, Radiologic Technology 86L, Radiologic Technology 240, Radiologic Technology 241, and Radiologic Technology 275, 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 Radiologic Technology 253A or Radiologic Technology 255B.

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

This is an advanced course for students in the Radiologic Technology program. This course provides students with supervised clinical training at a District clinical affiliate. Topics include the advancement of skills in patient and radiographic care while employing appropriate medical ethics, safety and effective healthcare communication. Exam competency focuses on trauma, pediatric, operative and mobile radiographic procedures. Supervision is shared by the staff of the clinical education center and college faculty. (FT) AA/AS; CSU.

**257C Directed Clinical Practice VI**  
**18 hours other, 6 units**  
**Grade Only**

*Prerequisite:* Radiologic Technology 257B 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 Radiologic Technology 253B or Radiologic Technology 255C. This is an advanced course for students in the Radiologic Technology program. This course provides students with supervised clinical training at a District clinical affiliate. Topics include the advancement of skills in patient and radiographic care while employing appropriate medical ethics and safety, as well as effective healthcare communication. Supervision is shared by the staff of the clinical education center and college faculty. (FT) AA/AS; CSU.

**257D Directed Clinical Practice Computed Tomography**  
**18 hours other, 6 units**  
**Grade Only**

*Prerequisite:* Radiologic Technology 275 with a grade of "C" or better, or equivalent.  
*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is for clinical rotations in computed tomography in one of our affiliate hospitals. This course will introduce the student to the clinical environment in computed tomography. (FT) AA/AS; CSU.

**271 Digital Mammography**  
**2 hours lecture, 2 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 210 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 Radiologic Technology 248 or Radiologic Technology 249. This is an advanced course for the students in the Radiologic Technology program. Topics include basic principles of mammography and clinical application in diagnosing breast disease. Emphasis is placed on developing appropriate care and communication in mammography, image quality, and correct film and digital processing parameters. (FT) AA/AS; CSU.

**271L Digital Mammography Laboratory**  
**1.5 hours lab, .5 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 271 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 Radiologic Technology 249. This is a course for mammography students to have experience with Quality Assurance (QA) and Quality Control (QC) of mammography equipment. This course provides hands on training of breast tissue to the required views needed in the clinical setting. (FT) AA/AS; CSU.

**275 Computed Tomography Imaging**  
**2 hours lecture, 2 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Radiologic Technology 241 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 Radiologic Technology 246. This is a course for radiologic technology students to study the imaging modality of Computed Tomography (CT). The underlying physical principles, imaging method, instrumentation, imaging manipulation and clinical use of the modality in diagnostic imaging are explored. (FT) AA/AS; CSU.

**275L Computed Tomography Imaging Laboratory**  
**1.5 hours lab, .5 units**  
**Grade Only**

*Corequisite:* Radiologic Technology 275.  
*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open



to students with previous credit for Radiologic Technology 246.

This is a course for radiologic technology students to study the imaging modality of Computed Tomography (CT). The underlying physical principles, imaging method, instrumentation, imaging manipulation and clinical use of the modality in diagnostic imaging are explored. This course also provides CT experience with software, planning and implementation of scanning protocols along with quality control. (FT) AA/AS; CSU.

## Real Estate (REAL)

### 101 Real Estate Principles

**3 hours lecture, 3 units  
Grade Only**

This course is a study of the economics and transfer of land ownership. Emphasis is placed on the roles and responsibilities of the broker, the owner and the purchaser in the buying and selling of property. This course is designed for students majoring in real estate and anyone interested in the principles of real estate. This course applies toward the State's educational requirements for the real estate salesperson's license examination and as an elective for the broker's license exam. This course is intended for current or future real estate professionals. (FT) AA/AS; CSU.

### 105 Legal Aspects of Real Estate

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50.

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 real estate salesperson's license exam. This course is intended for current or future real estate professionals. (FT) AA/AS; CSU.

### 110 Principles of Real Estate Appraisal I

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50; Mathematics 38 with a grade of "C" or better, or equivalent or Milestone M30.

This course is a study of basic appraisal principles, market analysis, and highest and best use. Topics include 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 State's educational requirements for the broker's examination and the real estate appraiser trainee examination, and as an elective for the real estate salesperson's license exam. This course is intended for current or future real estate professionals. This course is intended for investors and current or future real estate professionals. (FT) AA/AS; CSU.

### 115 Real Estate Finance

**3 hours lecture, 3 units  
Grade Only**

*Advisory:* Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50.

This course is a study of real estate finance. Emphasis is placed on the types of real estate lenders, the sources of income for lending purposes, and buyer qualifications. This course is designed for students majoring in real estate and for anyone interested in real estate finance. This course applies toward the State's educational requirements for the broker's examination and as an elective for the real estate salesperson's license exam. This course is intended for current or future real estate professionals. (FT) AA/AS; CSU.

**(FT)** = A field trip may be required for this course.  
**AA/AS** = Associate Degree Applicable  
**CSU** = California State University Applicable  
**UC** = University of California Applicable  
**Milestone** formerly referred to as Skill Level

**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 both the broker's and the real estate salesperson's examination. This course is intended for current or future real estate professionals. (FT) AA/AS; CSU.

**125 Real Estate Economics****3 hours lecture, 3 units  
Grade Only**

*Advisory:* Mathematics 96 with a grade of "C" or better, or equivalent or Milestone M50. 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; and 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 real estate salesperson's license. This course is intended for current or future real estate professionals. (FT) AA/AS; CSU.

**130 Real Property Management****3 hours lecture, 3 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Milestone R50 and W50. This course is a practical approach to the principles and practices of managing income properties. Emphasis is placed on marketing, leasing, and maintenance of real property. This course applies toward the State's educational requirements for the broker's examination and as an elective for the real estate salesperson's license exam. This course is intended for current or future real estate professionals. (FT) AA/AS; CSU.

**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 Milestone R50.

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. This course is intended for all students interested in the Russian language and culture. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org

**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 or two years of high school Russian or equivalent.

This course is the second in the Russian language series. Emphasis is placed on developing language competency and an understanding of the Russian culture. In this interactive course, students listen, read, speak, and write beyond the novice level. 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. This course is intended for all students interested in the Russian language and culture. (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 with a grade of "C" or better, or equivalent or three years of high school Russian. 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. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. 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**

This course is an introductory study of the basic concepts, theoretical approaches, and methods of sociology. Topics include the scientific study of social interaction, structure, and organization; groups; socialization and the self; social stratification; culture and diversity; social change; and global dynamics. Topics and examples emphasize present-day America, including cross-cultural and multicultural analysis. This course is intended for students considering careers in counseling, teaching, social work, or nursing as well as anyone wishing to apply sociological ideas to everyday life. (FT) AA/AS; CSU; UC; C-ID SOCI 110.

### 110 Contemporary Social Problems

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.  
This course requires students to identify and analyze present day social problems in the United States, with emphasis on sociological factors involved, including cross-cultural and multicultural analysis. Students use scientific methods and criteria for evaluating proposals for social betterment. This course is useful for students pursuing careers in criminology, counseling, education, law, and medicine. (FT) AA/AS; CSU; UC; C-ID SOCI 115.

### 125 Sociology of the Family

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

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; C-ID SOCI 130.

### 150 Sociology of Latinos/Latinas

**3 hours lecture, 3 units**

**Grade Only**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is an in-depth sociological examination of Latino communities in the United States. Topics include family structure, gender roles, and sexuality; religion; economics; racism; social movements; U.S./Mexico border issues and immigration policy; and education. Emphasis is placed on social interactions, the politics of identity formation, and social processes impacting the status of U.S. Latinos. This course is intended for sociology majors or any student interested in the social sciences. (FT)AA/AS; CSU; UC.

### 201 Advanced Principles of Sociology

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is a study of the origins of sociological theory. Principal contributors are presented and examined in detail, with special attention to their model of human action, the nature of empirical fact, and implications for public policy. With an emphasis on critical analyses of science and the humanities, this course is designed to provide a standard theory

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

foundation for transfer students majoring in the arts, sciences, or social sciences. AA/AS; CSU; UC.

## 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; 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 supplemented with empirical examples. The course is useful for those considering careers in law, politics, business, teaching, or non-profit organizations dealing with human rights issues, political advocacy, or international affairs. (FT) AA/AS; CSU; UC.

***This discipline may offer specialized instruction in one or more of the following areas: Supervised Tutoring (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Spanish (SPAN)

## 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 Milestone W4.

*Limitation on Enrollment:* This course is not open to students with previous credit for or concurrent enrollment in Spanish 100.

This interactive course introduces students to the Spanish language and the cultures of the Spanish speaking world. Students use basic Spanish language structures and vocabulary to speak, listen, read, and write in cultural context at the novice level. This course is intended for all students interested in gaining proficiency in the Spanish language for academic purposes and/or personal enrichment. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org; C-ID SPAN 100.

## 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 Milestone W4.

*Limitation on Enrollment:* This course is not open to students with previous credit for or concurrent enrollment in Spanish 100.

This interactive course is the second in the Spanish language series. Students use increasingly complex Spanish language structures to speak, listen, read, and write in cultural context at the novice-high level. This course is intended for all students interested in gaining proficiency in the Spanish language for academic purposes and/or personal enrichment. (FT) AA/AS; CSU; UC; C-ID SPAN 110.

## 125 Spanish for Health Care Professionals I

**3 hours lecture, 3 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 101 with a grade of "C" or better, or equivalent or equivalent or two years of high school Spanish with a grade of 'C' or better, or equivalent.

This Spanish course develops comprehension and fluency and introduces medical terminology and content at the novice-high level through culturally and medically relevant materials. Students acquire the specialized vocabulary needed in medical professions, dramatize professional medical interactions, and develop the grammatical and cultural competency needed to succeed as health professionals. Culturally sensitive oral communication is emphasized and context-specific grammatical structures particular to the health profession introduced. This course is intended for students preparing to work in the medical and health fields. (FT) AA/AS; CSU.

## 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 interactive course is the third in the Spanish language series. Students use increasingly complex language structures and vocabulary to develop the functional competence required to communicate beyond survival needs and to discuss and express opinions on abstract topics related to the arts,

lifestyle, linguistics, and literature at the intermediate level. This course is intended for students majoring in Spanish and anyone interested in gaining proficiency in the Spanish language for academic purposes and/or personal enrichment. (FT) AA/AS; CSU; UC; C-ID SPAN 200.

## 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 previous credit for Spanish 200. This interactive course is the fourth in the Spanish language series. Emphasis is placed on the use of complex language structures and vocabulary to communicate beyond casual conversation and to express opinions and offer hypothetical possibilities related to abstract issues and plans, cultural norms and values, and interpersonal relationships. Students are encouraged to think critically by analyzing linguistic structures and making cross cultural comparisons related to the Spanish speaking world. This course is intended for students majoring in Spanish and anyone interested in gaining proficiency in the Spanish language for academic purposes and/or personal enrichment. (FT) AA/AS; CSU; UC; C-ID SPAN 210.

## 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 the prerequisite course are used as a basis upon which to build course emphasis in reading. In addition, 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**

*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; C-ID SPAN 220.

## 216 Spanish for Spanish Speakers II

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 215 with a grade of "C" or better, or equivalent.

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

*Limitation on Enrollment:* This course is not open to students with previous credit for Spanish 202, nor to Spanish speakers who have received the equivalent of a high school degree in a Spanish speaking country.

This course is the second of a two-course sequence in Spanish for Spanish Speakers. 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; C-ID SPAN 230.

**221 Hispanic Literature for Spanish Speakers**  
**5 hours lecture, 5 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 215 with a grade of "C" or better, or equivalent.

This course provides second year of study for Spanish speakers. It introduces Latin American and Peninsular literature. Students analyze literature and recognize the relationship of featured texts to cultural manifestations and the relevance to their own lives. They hone their written, oral, and aural skills learned in first year of Spanish for Spanish Speaker courses. The course emphasizes reading, writing, and analysis of fiction, drama, and poetry, and the use of current technologies to research class topics. Spanish 221 is conducted entirely in Spanish. (FT) AA/AS; CSU; UC.

**222 Hispanic Culture and Civilization for Spanish Speakers**  
**5 hours lecture, 5 units**  
**Letter Grade or Pass/No Pass Option**

*Prerequisite:* Spanish 216 with a grade of "C" or better, or equivalent.

This course provides a second year of study for Spanish Speakers. It introduces Latin American and Spanish culture and civilization building on skills acquired in first-year Spanish-speaker language courses. Students analyze and find relevance in historical and cultural phenomena

from the perspective of Spanish speakers and draw comparisons between the featured texts and media to their own lives. They hone previously-learned critical thinking, written, oral, and aural skills such as orthography, accentuation, and proper grammatical and sentence structures. Students also read, write, and analyze issues related to demography, sociology, and popular culture using technology and various media to research class topics. This course is taught entirely in Spanish. (FT) AA/AS; CSU; UC.

**SPECIAL EDUCATION**

(See Disability Support Programs and Services, page 395)

**SPEECH COMMUNICATIONS**

(See Communication Studies, page 367)

**Sustainability (SUST)**

**101 Introduction to Sustainability**  
**3 hours lecture, 3 units**  
**Grade Only**

*Advisory:* English 101 or English 105, each with a grade of "C" or better, or equivalent.

This course introduces students to an interdisciplinary examination of the theory and practices of sustainability. Sustainability can be defined as meeting the needs of the present generation without compromising the ability of future generations to meet their own needs. Topics include restoring ecological and environmental health, creating economic welfare, and ensuring social justice. This course is intended for students interested in sustainability, environmental ethics, and peace studies. (FT) AA/AS; CSU; UC.

**270 Sustainability Work Experience**  
**60–300 hours other, 1–4 units**  
**Grade Only**

*Corequisite:* Completion of or concurrent enrollment in Sustainability 101 with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* Must obtain a permission number from the instructor for enrollment. This course provides on-the-job learning experiences for students employed in a job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of workplace

sustainability learning objectives. One unit of credit may be earned for each 75 hours of paid employment or 60 hours of volunteer work. The combined maximum credit for all Work Experience courses from all subject areas may not exceed 16 units. This course is intended for students majoring in Sustainability or those interested in the sustainability field. (FT) AA/AS; CSU.

## Tagalog (TAGA)

### 101 First Course in Tagalog

**5 hours lecture, 5 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 Milestone R4 and W4.

This course is the first in a three course sequence of Tagalog. Emphasis is placed on the Tagalog language and culture through speaking, listening, reading, and writing at the novice level. Other topics include basic language structures, appropriate forms of address, and vocabulary for communication. This course is intended for all students interested in the Tagalog language. (FT) AA/AS; CSU; UC, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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.

This course is the second in a three course sequence in Tagalog. In this interactive course, students reinforce and add to the culture and language concepts studied in the first semester course through speaking, listening, reading, and writing at the low-intermediate level. This course is intended for all students interested in the Tagalog language. (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 intermediate course is the third in a three course sequence in Tagalog. In this interactive course, students increase mastery of the Tagalog language and Filipino culture through speaking, listening, reading, and writing at the intermediate level. More

complex language structures and vocabulary for communication are examined and explored. This course is intended for all students interested in the Tagalog language. (FT) AA/AS; CSU; UC.

## Vietnamese (VIET)

### 101 First Course in Vietnamese

**5 hours lecture, 5 units**

**Letter Grade or Pass/No Pass Option**

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, for UC Transfer Limitations see a Counselor or reference ASSIST.org.

### 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.

This is the second course in the Vietnamese language sequence. 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.

**(FT)** = A field trip may be required for this course.

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**Milestone** formerly referred to as Skill Level

**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.

This is an intermediate course and it 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 the literary and historical aspect of Vietnamese culture. (FT) AA/AS; CSU; UC.

**Veterinary Technology (VTAH)**

**100A Animal Care and Management**  
**4.5 hours lab, 1.5 units**  
**Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 100A.

This introductory course provides Animal Health Technology students with practical experience in the basic husbandry of many animal species. Students learn and practice “essential” and “recommended” tasks as required by the American Veterinary Medical Association and the California Veterinary Medical Board 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:* Veterinary Technology 100A 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 100B.

This course provides Animal Health Technology students with significant responsibility in the resident animal care and advanced techniques in the general husbandry of many animal species. Students learn and practice “essential” and “recommended” tasks as required by the American Veterinary Medical Association and the California Veterinary Medical Board 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 student teams assigned in a rotation schedule. Applicable veterinary medical and animal husbandry terminology is included. (FT) AA/AS; CSU.

**115 Veterinary Office Procedures**  
**2 hours lecture, 2 units**  
**Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 115.

This course is for students enrolled in the Animal Health Technology Program. This veterinary office procedures course is designed to introduce the Animal Health Technology student to the development and facilitation of client care, staff management, financial guidelines, patient management and record keeping in a veterinary setting. Topics include: client and staff communication, veterinary medical ethics, veterinary logs and legalities, computer usage, medical math and financial management, and purchasing and inventory management in relationship to a veterinary establishment. Resume writing and job interviewing skills are also covered. Appropriate veterinary terminology is included. (FT) AA/AS; CSU.

**125 Veterinary Clinical Pathology**  
**3 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Veterinary Technology 140 with a grade of “C” or better, or equivalent.

*Corequisite:* Veterinary Technology 125L.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 125.

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:* Veterinary Technology 140 with a grade of "C" or better, or equivalent.

*Corequisite:* Veterinary Technology 125.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 125L.

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, ear, vaginal, milk, 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:* Veterinary Technology 145 and Veterinary Technology 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 135.

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. Appropriate medical terminology is included. (FT) AA/AS; CSU.

### **140 Veterinary Microbiology and Immunology**

**2 hours lecture, 2 units  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 140.

This course covers the fundamentals of veterinary microbiology and immunology. This includes the taxonomy, structure, physiology, reproduction, growth, and diversity of micro-organisms of importance in the veterinary field. Also covered are the basic techniques for culturing, staining, identifying, and controlling the various micro-organisms found in this field. Appropriate veterinary terminology is included. This course is for students enrolled in the Animal Health Technology program. (FT) AA/AS; CSU.

### **145 Veterinary Anatomy and Physiology**

**3 hours lecture, 3 units  
Grade Only**

*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 or Animal Health Technology 145. This lecture course is designed to introduce the 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 veterinary medical terminology is included with each system. (FT) AA/AS; CSU.

**(FT)** = A field trip may be required for this course.  
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**Milestone** formerly referred to as Skill Level

### 145L Veterinary Anatomy and Physiology Lab

**3 hours lab, 1 unit  
Grade Only**

*Corequisite:* Veterinary Technology 145.

*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 or Animal Health Technology 145L. This veterinary anatomy and physiology laboratory course is designed to provide the Animal Health Technology student with the opportunity to investigate and study the principles of normal anatomy and physiology presented in the corresponding lecture course. 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 dissection is carried out by each student. (FT) AA/AS; CSU.

### 155 Fundamentals of Animal Health Technology

**3.5 hours lecture, 3.5 units  
Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 105 or Animal Health Technology 155. This is introductory lecture course is for the Animal Health Technology student. It 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, identification of species and breeds, animal restraint and handling techniques, physical examination techniques, sanitation and personal hygiene, medicating, zoonotic disease risk factors, basic animal nursing skills, instruments and equipment, and identification of domestic animal breeds. Appropriate veterinary terminology is included. (FT) AA/AS; CSU.

### 155L Fundamentals of Animal Health Technology Laboratory

**6 hours lab, 2 units  
Grade Only**

*Corequisite:* Veterinary Technology 155.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 105L or Animal Health Technology 155L. This introductory course is for students in the Animal Health Technology Program. It utilizes demonstrations, laboratory exercises, group activities, and lectures to illustrate the fundamentals of Animal Health Technology. Course work fulfills the student's need to learn and practice "essential" and "recommended" tasks from the American Veterinary Medical Association's Knowledge, Skills, and Abilities Task List. These tasks include animal restraint and handling skills, physical exam basics, medicating techniques, breed and species identification, basic animal nursing skills, surgical equipment and veterinary medical equipment identification, basic nutrition, sanitation/sterilization, and personal hygiene. Appropriate veterinary medical terminology is also included. (FT) AA/AS; CSU.

### 205 Diseases of Domestic Animals

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Veterinary Technology 145 with a grade of "C" or better, or equivalent.

*Corequisite:* Veterinary Technology 125.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 205.

This course provides Animal Health Technology students with an introduction to infectious, non-infectious, and zoonotic diseases and conditions of domestic animals. Material covered includes the etiology, pathogenesis, pathophysiology, and clinical signs of each disease. This course also details any disease/condition-specific nursing care, treatments or diagnostic test methods. Appropriate veterinary medical terminology is included. (FT) AA/AS; CSU.

### 215 Veterinary Radiography

**3 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Veterinary Technology 135 and Veterinary Technology 145, 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 215.

This course introduces the Animal Health Technician student to the use of radiography and role of

radiography and other imaging modalities in the veterinary medical fields. Topics include radiation, x-ray beam production, intensifying screens, cassettes, grid usage, latent and visible image formation, film processing, alternative imaging methods, and legal requirements. Protocols for commonly used radiographic studies and introductory radiographic film interpretation are included. Special emphasis is placed on radiation safety for the patient and all personnel. Also included is the proper use and maintenance of all veterinary radiographic and processing equipment. Appropriate imaging terminology is included. (FT) AA/AS; CSU.

### **215L Veterinary Radiography Laboratory** 3 hours lab, 1 unit Grade Only

*Prerequisite:* Veterinary Technology 145 with a grade of "C" or better, or equivalent.

*Corequisite:* Veterinary Technology 215.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 215L.

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 equipment. Also included is an introduction to digital dental exam, including handling and maintenance of the equipment. Procedures and protocols for radiation safety of patient, handler, and equipment are stressed. Appropriate veterinary imaging terminology is included. (FT) AA/AS; CSU.

### **225 Animal Nursing Techniques and Anesthesiology** 3 hours lecture, 3 units Grade Only

*Prerequisite:* Veterinary Technology 145 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 225.

This lecture course is designed to introduce the Animal Health Technology student to veterinary anesthesia, surgical and medical nursing techniques, dental hygiene, emergency first aid, and correct legal documentation. Emphasis is placed on the appropriate use of veterinary medical terminology to explain techniques of intravenous and inhalation anesthesia, surgical asepsis, instrument sterilization, patient monitoring, and pre operative, operative, post operative and after care nursing. Additional topics include fluid therapy, bandaging/splints/casts, and commonly performed medical procedures. Appropriate pharmacological agents are discussed throughout the course with emphasis on classification, dosage, method of action, method of administration, dispensing procedures and pharmacy management. (FT) AA/AS; CSU.

### **227 Veterinary Surgical and Nursing Procedures Lab** 3 hours lab, 1 unit Grade Only

*Prerequisite:* Veterinary Technology 145, Veterinary Technology 155 and Veterinary Technology 155L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Veterinary Technology 225 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 226A or Animal Health Technology 227. This surgical nursing and anesthesia laboratory course provides Animal Health Technology students with the opportunity to practice the principles and procedures of surgical nursing and anesthesia. Topics include surgical asepsis, instrument sterilization, patient monitoring, surgical and medical nursing, dental prophylaxis, emergency first aid, bandages, splints, casts, catheters, suturing patterns, collection and analysis of clinical pathology samples, blood transfusion therapy and

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Milestone formerly referred to as Skill Level

cardio-pulmonary resuscitation. Students calculate anesthetic doses, fluid drip rates, and post-operative medication doses and practice safe operation and proper maintenance of anesthetic machines, anesthetic-surgical monitoring equipment, crash carts, and laboratory equipment commonly used in the veterinary field. (FT) AA/AS; CSU.

### **229 Advanced Surgical Nursing Procedures Lab**

**3 hours lab, 1 unit  
Grade Only**

*Prerequisite:* Veterinary Technology 135, Veterinary Technology 225, and Veterinary Technology 227, 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 226B or Animal Health Technology 229. This lab course is designed to introduce the Animal Health Technology student to practical application of veterinary anesthesia, surgical and medical nursing techniques, dental hygiene, emergency first aid, and correct legal documentation. Techniques of intravenous and inhalation anesthesia, surgical asepsis, pre-operative, operative, post-operative, after care nursing and patient monitoring are performed by assisting the veterinarian. Instrument sterilization, fluid therapy, bandaging/splints/casts, and commonly performed medical treatments and procedures are practiced by each student. Appropriate pharmacological agents are discussed, and utilized including classification, dosage, method of action, method of administration, calculation, dispensing procedures and pharmacy management. Appropriate veterinary medical terminology is applied. (FT) AA/AS; CSU.

### **260 Laboratory Animal Medicine**

**2 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Veterinary Technology 225 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 250, Animal Health Technology 255 or Animal Health Technology 260. This lecture course is designed for the 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. (FT) AA/AS; CSU.

### **260L Laboratory Animals Medicine Laboratory**

**1.5 hours lab, 0.5 units  
Grade Only**

*Prerequisite:* Veterinary Technology 125L or Veterinary Technology 225, each with a grade of "C" or better, or equivalent.

*Corequisite:* Veterinary Technology 260.

*Limitation on Enrollment:* Special Admission - must be admitted to program. This course is not open to students with previous credit for Animal Health Technology 250, Animal Health Technology 255L or Animal Health Technology 260L.

This course is designed to provide the Animal Health Technology student with the opportunity to practice the procedures and techniques of safe and proper animal restraint, anesthesia, injection techniques, and sample collection. 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. Appropriate veterinary and research terminology is included. (FT) AA/AS; CSU.

### **270 Veterinary Work Experience**

**60 - 300 hours other, 1-4 units  
Grade Only**

*Prerequisite:* Veterinary Technology 115, Veterinary Technology 125, and Veterinary Technology 125L, each with a grade of "C" or better, or equivalent.

*Corequisite:* Completion of or concurrent enrollment in Veterinary Technology 135, Veterinary Technology 225, and Veterinary Technology 227, 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 270.

This course is for Animal Health Technology (AHT) students to acquire on-the-job training within a veterinary facility. All AHT students must complete a minimum of 240 hours (4 units) of on-the-job training in an approved veterinary facility in order to graduate. This work experience course of supervised internship work or employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the field of veterinary medicine. Credit may be accrued at the rate of 1 to 8 units per semester for a total of 16 units. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. The combined maximum credit for all work experience course work 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 (44), Experimental Topics (265), Independent Study (290), Individualized Instruction (296), Service Learning (277), or Work Experience (270). Detailed course descriptions are listed on page 316. Please refer to the class schedule and/or see the dean or department chair for availability.***

## Web Development (WEBD)

### 127 Creating User-Centered Content

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Advisory:* Completion of or concurrent enrollment in Computer Business Technology 114, Multimedia 100, and Multimedia 121, each with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Multimedia 127. This course teaches strategies and processes for developing websites and multimedia projects that are user-centered and meet industry standards of usability. User-centered content is 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, well-designed navigation, and effective design. Students create a user-centered project. This course is designed for students pursuing a career in multimedia, web development, business or communication. (FT) AA/AS; CSU.

### 152 Beginning Web Development: HyperText Markup Language (HTML) and Cascading Style Sheets (CSS)

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Computer Business Technology 101 and Computer Business Technology 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 Web Development 162.

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. (FT) AA/AS; CSU.

### 164 Javascript Fundamentals for Web Development

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Web Development 152 and Web Development 168, each with a grade of “C” or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Web Development 170.

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. (FT) AA/AS; CSU.

### 166 PHP: an Introduction

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Computer Business Technology 101, 114, and Web Development 152, each with a grade of “C” or better, or equivalent.

(FT) = A field trip may be required for this course.  
AA/AS = Associate Degree Applicable  
CSU = California State University Applicable  
UC = University of California Applicable  
Milestone formerly referred to as Skill Level

*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 fundamentals of PHP: Hypertext Preprocessor (PHP) coding. Students create dynamic-driven webpages in accordance with current professional standards. This course is designed for all students and professionals who wish to acquire skills in dynamic website creation and development. (FT) AA/AS; CSU.

### **167 Using Web Databases**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Advisory:* Computer Business Technology 101, Computer Business Technology 114, and Web Development 152, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Web Development 153.

This course provides a hands-on introduction to relational databases in a Web environment. Emphasis is placed on hand-coding Structured Query Language (SQL), specifically MySQL. Students master an open source database editor, XAMPP, to create and work with a database. Basic PHP: Hypertext Preprocessor (PHP) is used to bind data on a Web page. This course is designed for students studying web design and professionals updating their skills. (FT) AA/AS; CSU.

### **168 Intermediate HTML (HyperText Markup Language) and CSS (Cascading Style Sheets) for Web Design**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Computer Business Technology 101, Computer Business Technology 114, and Web Development 152, 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 that builds on the foundational level HyperText Markup Language (HTML) and Cascading Style Sheets (CSS) skills. Students write intermediate level HTML5 and CSS2 and CSS3 techniques for creating complex and functional websites that meet accessibility requirements. Topics include coding with standards based HTML, intermediate and advanced CSS positioning, navigation, designing for mobile devices

using responsive design, and integrating audio and video using HTML5 conventions. This course is intended for students majoring in web development or updating professional skills. (FT) AA/AS; CSU.

### **169 Website Development Using Open Source Content Management Systems**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* Computer Business Technology 101, Computer Business Technology 114, Multimedia 100, Web Development 127, and Web Development 152, 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 development using open source Content Management Systems (CMS). Emphasis is placed on creating, customizing, securing and maintaining the content, data and design of the Website using Content Management Systems. Open source CMS tools such as WordPress, Joomla, and Drupal are used. This course is intended for students studying web design and professionals updating their skills. (FT) AA/AS; CSU.

### **171 Advanced JavaScript for Web Development**

**2 hours lecture, 3 hours lab, 3 units  
Grade Only**

*Prerequisite:* Web Development 164 with a grade of "C" or better, or equivalent.

This course is an advanced study of Javascript and its frameworks for Web development. Students use JavaScript frameworks and libraries to create web applications. Frameworks including React and Angular are covered. Exploration into full stack environments with front end technologies is included in the course. This course is designed for students and professionals who wish to extend and advance their front end development skills in JavaScript. AA/AS; CSU; UC.

### **173 E-Commerce Website Creation**

**2.5 hours lecture, 1.5 hours lab, 3 units  
Grade Only**

*Advisory:* Computer Business Technology 101, Computer Business Technology 114, Web Development 152, and Web Development 166, each with a grade of "C" or better, or equivalent. This course provides students with the knowledge and skills required to create professional

e-commerce websites. Students analyze clients' needs to develop appropriate e-commerce solutions and incorporate them into secure websites using either custom databases or content management systems (CMS). Students implement best practices as they design the visual interface, develop databases using My Structured Query Language (MySQL) and Hypertext Preprocessor (PHP), create catalogs, set up shopping carts, including order, payment, and fulfillment processes. Security implementation adheres to current industry standards. This course is designed for students studying web design and professionals updating their skills. (FT) AA/AS; CSU.

### **191 Professional Practices in Web Design** 2.5 hours lecture, 1.5 hours lab, 3 units Grade Only

*Advisory:* Web Development 166, 168, and 169, 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 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. (FT) AA/AS; CSU.

## **Women's Studies (WMNS)**

### **101 Introduction to Gender and Women's Studies**

**3 hours lecture, 3 units  
Letter Grade or Pass/No Pass Option**

*Advisory:* English 101 with a grade of "C" or better, or equivalent.

This course is an interdisciplinary introduction to Gender and Women's studies. This course helps students learn the appropriate tools of analysis and scholarship, address gender issues in education and the workforce, and women's role in the formation and transformation of family structures. Students also focus on the intersections of race/ethnicity and gender in the shaping of these and other institutions over time. This course is useful for students considering careers in business, the social sciences, teaching, counseling, and nursing and for students

interested in further studies in Gender and Women's Studies. (FT) AA/AS; CSU; UC.

## **Work Experience (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.

**(FT)** = A field trip may be required for this course.

**AA/AS** = Associate Degree Applicable

**CSU** = California State University Applicable

**UC** = University of California Applicable

**Milestone** formerly referred to as Skill Level

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

### **270 Occupational Work Experience**

**60–300 hours other, 1–4 units  
Grade Only**

*Limitation on Enrollment:* Must obtain a permission number from Work Experience Coordinator for enrollment.

This course provides on-the-job learning experiences for students employed in a job or internship related to an occupational major. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. One unit of credit may be earned for each 75 hours of paid employment or 60 hours of volunteer work. This course may be taken up to four times. However, the combined maximum credit for all Work Experience courses from all subject areas may not exceed 16 units. This course is intended for students majoring or interested in an occupational field of study. AA/AS; CSU.

### **272 General Work Experience**

**60 - 225 hours other, 1-3 units  
Grade Only**

*Limitation on Enrollment:* Must obtain a permission number 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 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.



# San Diego Mesa College Faculty & Administrators



**ABAJIAN, Mark E.**

Economics  
B. A., M.A., San Diego State  
University

**ABBIATE, Gina M.**

Math  
B. A., University of California,  
San Diego  
M.A., San Diego State University

**ABE, Valerie**

Architecture  
B. S., California State  
Polytechnic University,  
Pomona

**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

**ALATORRE, Amber**

Counselor  
B.A., San Diego State University  
M.A., 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

**ALFONSI, Marie**

English

**ALLRED, Christie**

English/ESL  
B.A., M.A., San Diego State  
University

**ARGUELLES, Isaac**

Counselor/DSPS  
B.A., M.A., San Diego State  
University

**ARNOLD, Rebecca S.**

Economics  
B.S., University of Arkansas,  
Fayetteville  
M.A., San Diego State University

**ASWELL, Amy**

Interior Design  
B.A., Humboldt State University  
M. Int. Arch., University of  
Oregon

**BALDERAS, Christine**

Physical Therapist Assistant  
B.S., San Diego State University  
M.P.T., Chapman University  
D.P.T., University of St.  
Augustine

**BARHOUM, Sim**

English  
B.A., San Diego State University  
M.A., San Diego 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

**BARTON, Blythe**

Exercise Science, Dance  
B.F.A., Chapman University  
M.F.A., Florida State University

**BAUTISTA, Manny**

Exercise Science  
A.A., South Plains Community  
College  
B.S., California Polytechnic State  
University  
M.S., Kansas State University

**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  
D.Env., University of California,  
Los Angeles

**BERNAL, Juan U.**

Mathematics  
B.S., University of California,  
Merced  
M.S., University of California  
San Diego

**BERRIEN, Markus**

Counselor, EOPS  
B.A., University of California,  
San Diego  
M.S., 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

**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

**BREWER, Michael L.**

Biology  
B.S., California State University  
Northridge  
M.S., California State University  
Northridge  
Ph.D., University of Nevada, Las  
Vegas

**BRIGGS, Shane**

Mathematics  
A.A., San Diego Mesa College  
B.S., University of California, San  
Diego  
M.A., 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, Danene**  
Dean, Business and Technology  
B.A., California State University,  
Fullerton  
M.A., Virginia Tech  
Ph.D., University of San Diego

**BROWN, Michael**  
Mathematics  
B.A., Westmont College  
M. A., University of California,  
San Diego

**BROWNE, Henry D.**  
Exercise Science  
B.S., University of California, Los  
Angeles  
M.A., San Diego State University

**BRUCKMAN, Daniela**  
Biology  
B.S., University of California,  
Santa Cruz  
Ph.D., University of California,  
Irvine

**BUDZYNSKI, Donna**  
Chemistry  
B.S., M.S., Ph.D., University of  
Illinois

**BURGERT, Lisa**  
Collection Development and  
Open Educational Resources  
Librarian  
B.A., San Diego State University  
M.L.I. S., San Jose State  
University

**BURRELL, Sade**  
Counselor, EOPS  
A.A., Cuyamaca College  
B.A., San Diego State University  
MSW, University of Southern  
California

**CARMICHAEL, Jennifer**  
Biology  
B.S., Lock Haven University  
Ph.D., Ohio State University

**CARSON, Kristina O.**  
General Counseling, Career  
Counseling and Co-coordinator  
of Career Services  
B.A., San Diego State University  
M.A., University of San Diego

**CHAGNON, Jill**  
Radiologic Technology  
B.S., R.T., Northern Arizona  
University

**CHITCHAROEN, Tassanee**  
Cataloging Librarian and  
Technical Services Coordinator  
B.A., Rutgers University  
M.A., California State University,  
Chico  
M.L.I.S., San Jose State  
University

**CHOI, Katlin**  
Work-Base Learning  
B.A., University of California, Los  
Angeles  
M.A., California State University  
Dominguez Hills  
M.A., San Diego State University

**CHU, Elizabeth C.**  
Nutrition  
B.S., Oregon State University  
M.S., Boston University  
R.D., Harvard Medical Center  
(Peter Bent Brigham Hospital)

**CLARK, Kristan**  
Drama  
B.A., M.F.A., University of  
California, Davis

**CLOUD, Leslie**  
Computer Business Technology  
B.S., Arizona State University,  
Tempe  
M.B.A., National University,  
San Diego

**COLBY, Stephanie**  
Physical Sciences  
M.S., University of Wyoming

**COLLINS, Laura**  
Dental Assisting  
C.D.A., R.D.A., A.A., San Diego  
Mesa College  
B.V.E., San Diego State  
University

**COLLINS, Jarred T.**  
Math (ACP)  
B.S., St. Thomas Aquinas  
College  
M.S., Rhode Island College  
Ph.D., University of Rhode  
Island

**CONNELL, Paige**  
Biology  
B.S., Ph.D., University of  
Southern California

**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

**COX, Michael**  
History  
B.A., Ohio University  
M.A., University of Oklahoma  
Ph.D., University of California,  
Riverside

**CRAKES, Ailene**  
Dean, Student Success and Equity  
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**CROSBY, Christina**

Psychology

B.A., University of Missouri, St.  
Louis

M.A., Ph.D., New York University

**CURRAN, Todd**

Exercise Science

B.A., University of California,  
San DiegoM.S., California Polytechnic  
State University, San Luis  
Obispo**DAMOOSE, Alison D.**

Mathematics

B.S., University of California,  
BerkeleyM.A., University of California,  
San Diego**DAVIS, Jeaneal**

Veterinary Technology

A.S., Mt. San Antonio College

B.S., University of California,  
DavisDVM, Ross University, School of  
Medicine**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

**DEMEMO, Nicholas**

Counselor

B.A., California State University,  
Northridge

M.A., San Diego State University

**DERILO, Jennifer**

English

B.A., University of California,  
San Diego

M.F.A., Mills College

**DIAZ, Leticia**

A.S., Southwestern

B.A., University of California, Los  
AngelesM.A., University of Michigan,  
Ann Arbor**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

**DREAS-PENROD, Tracy**

Medical Assisting

B.A., University of California,  
San DiegoP.A., Western University of  
Health Sciences**DUCHOW, Donna**

English/ELAC

B.A., Sweet Briar College

M.A., San Diego State University

**DUCKLES, Ian**

Philosophy

B.A., M.A., University of  
California, BerkeleyPh.D., University of California,  
Irvine**DUPRAW, Christine M.**

Nutrition

B.A., San Diego State University

M.P.H., R.D., University of  
California, BerkeleyEd.D., University of Southern  
California**EBRAHIMI, Mohammad**Ph.D. Candidate, University of  
California, San Diego**EDMUNDSON, Ronn**

English

B.A., Bishop College, Dallas

M.A., Brown University

**ERLENBUSCH, Adam**

Counselor

B.A., Point Loma Nazarene  
UniversityM.A., Southern California  
Seminary**ESCAMILLA, Rosiangel**

English

B.A., University of California,  
San DiegoM.A., University of California,  
San Diego**ESKEW, Howard, Jr.**

Business and Accounting

B.A., Ohio Christian University

M.A., St. Leo University in  
Florida**ESTEP, Justin**

Psychology

B.A., M.A., San Diego State  
UniversityC. Phil, University of California  
at Riverside**EVANS, Erin**

Sociology

B.A., San Francisco State  
UniversityM.A., San Francisco State  
UniversityPh.D., University of California,  
Irvine**FAWCETT, Shawn**

Work-Based Learning

B.S., San Diego State University

M.S., National University

**FEGAN, James**

Exercise Science, Aquatics

B.A., M.A., California State  
University, Chico**FEORI, Meegan**

Fashion

B.A., University of California,  
San DiegoM.S., California State University,  
Fullerton

**FICKESS**, Margaret  
Professor/Program Director,  
Dental Assisting  
B.A., M.A., San Diego State  
University

**FIERRO**, David  
Director, College Technology  
Services  
A.A., San Diego Mesa College  
B.S., M.S., Ed.D., San Diego State  
University

**FITZGERALD**, Michael John  
Culinary Arts  
A.A., Mesa College  
Certificate from the American  
Hotel & Lodging Educational  
Institute

**FLORES**, Sean A.  
Electronic Resources Librarian  
and Periodicals Coordinator  
B.S., University of California  
Riverside  
M.L.I.S., San Jose State  
University

**FLOURNOY**, Donna  
Dance  
A.A., San Diego Mesa College  
B.A., University of California,  
Irvine  
M.A., Long Beach State

**FRANKIE**, Tasha  
Computer and Information  
Sciences  
B.S., CALTECH  
M.S., University of California,  
San Diego  
Ph.D., University of California,  
San Diego

**FREMLAND**, Robert J.  
Chemistry  
B.S., Fresno State University  
M.S., University of California,  
San Diego

**GALLARDO**, Sakeenah  
Communication Studies  
B.A., M.A., San Diego State  
University

**GAPPY**, James  
Computer and Information  
Sciences  
M.S., Wayne State University

**GAYTAN**, Jesus  
Counselor, E.O.P.S.  
B.A., U.C. Berkeley  
M.A., San Diego State University

**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

**GERACE**, Veronica  
Communication Studies  
Ed.D., Educational Leadership

**GERGENS**, Dwayne  
Chemistry  
B.S., California State University,  
Long Beach  
Ph.D., University of California,  
Irvine

**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

**GONZALEZ**, Guadalupe  
Counselor  
B.A., California State University,  
San Marcos  
M.A., San Diego State University

**GRAHAM**, Kelsey  
Exercise Science, Personal  
Training  
B.S., San Diego State University  
M.Ed., University of Texas

**GREENBERGS**, Helen  
Psychology  
B.A., Pomona College  
Ph.D., San Diego State  
University/University of  
California, San Diego

**GURGANUS**, Alison Steinberg  
Online Services and Instruction  
Librarian  
School of Learning Resources and  
Academic Support Chair  
B.F.A., University of North  
Carolina School of the Arts,  
Winston-Salem  
M.L.I.S. San Jose State  
University  
Ed.D. Pepperdine University

**GWIN**, Mary  
Philosophy  
B.A., University of Oklahoma  
M.A., Oklahoma State  
University  
Ph.D., University of Oklahoma

**HALCOTT**, Joseph  
American Sign Language  
B.A., Gallaudet College  
M.A., University of New Mexico

**HALE**, Terrence  
Counselor  
B.A., Point Loma Nazarene  
University  
M.A., Point Loma Nazarene  
University

**HAMANAKA-HOLDEN**, Miyoko  
Japanese  
B.A., B.A., M.A., San Diego State  
University

**HANDS**, Ashanti  
Vice President, Student Services  
B.A., University of California,  
San Diego  
M.A., Ed.D., San Diego State  
University

**HARRISON**, Michael P.  
Spanish  
B.A., Furman University  
M.A., University of Virginia  
Ph.D., University of California,  
Irvine

**HARTER, James**  
Mathematics  
B.A., M.A., San Diego State  
University

**HAZLETT, Kevin J.**  
Exercise Science  
B.A., Point Loma Nazarene  
College  
M.A., Azusa Pacific University

**HEDEKIN, Anne**  
Counselor  
B.A., University of California,  
San Diego  
M.A., University of San Diego

**HELSCHER, Edward M.**  
Exercise Science  
B.A., University of San Diego  
M.S.S., United States Sports  
Academy

**HENSLEY, Linda**  
Dean, School of Humanities  
B.A., California State University,  
Stanislaus  
M.A., California State University,  
Fulleton

**HERNANDEZ, Amanda Fusco**  
Chemistry  
B.S., State University of  
New York  
M.S., Ph.D., University of  
California, San Diego

**HERNANDEZ, Ramiro**  
Counselor  
B.A., University of California,  
Riverside  
M.A., University of Redlands

**HERRIN, Bridget**  
Associate Dean, Research &  
Planning  
B.A., The University of Southern  
Mississippi  
M.A., CUNY John Jay College of  
Criminal Justice  
Ed.D., San Diego State  
University

**HIGGINBOTHAM, Erika**  
Adapted Computer Technology  
Specialist, DSPS  
B.A., Western Michigan  
University  
M.S., San Diego State University

**HINTON, James**  
Assistant Professor, Physics  
B.S., University of California,  
Santa Cruz  
M.A., Ph.D., University of  
California, Berkeley

**HJORTH-GUSTIN, Paula**  
Chemistry  
B.A., University of California,  
San Diego  
M.A., San Diego State University  
Ed.D. Alliant International  
University

**HOFFMAN, Andrew J.**  
English  
B.A., University of California,  
Irvine  
M.A., Syracuse University

**HOLOWICKI, Alex**  
History  
B.A., Grand Valley State  
University  
M.A., Ph.D., University of Hawaii

**HORNER, Amanda**  
Business Administration  
B.S., California State Long Beach  
M.B.A., National University

**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.**  
Communication Studies  
B.A., M.A., San Diego State  
University

**HUYNH, Christina**  
Mathematics  
B.S., San Diego State University  
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

**JAGIELINSKI, Holly**  
Health Information Management  
B.S., Loma Linda University  
M.P.H., San Diego State  
University

**JOHNSON-SEATON, Janue**  
Professional Learning  
Coordinator, LOFT  
B.A., CSU Long Beach  
M.A., University of Phoenix  
Ph.D., Jackson State University

**JOHNSON, Leroy S.**  
Counselor  
B.S., M.S., Chaminade University

**JOHNSTON, Amanda**  
Program Director, Physical  
Therapist Assistant  
A.S., San Diego Mesa College  
B.S., San Diego State University  
M.Ed., Northern Arizona  
University

**KALAGARA, Sudhakar**  
Chemistry  
B.S., Andhra University  
M.S., RTM University  
Ph.D., University of Texas at El  
Paso

**KALCK, Christopher D.**  
Counselor  
B.A., California State University,  
San Marcos  
M.A., San Diego State University

**KALCHIK, Jason**

English

B.A., California State University,  
Long Beach  
M.A., California State University,  
Long Beach

**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

**KATUNGI, Candace**

Black Studies

B.A., University of California,  
San Diego  
M.A., Cornell University

**KAY, Ian J.**

Architecture

A.A., San Diego Mesa College  
B.A., M.A., University of  
California, Berkeley

**KEARNS, Jennifer Nichols**

Director of Communications

B.A., University of Southern  
California  
M.S., San Diego State University

**KELLER, Jesse**

Assistant Professor, Drama

B.A., University of California, Los  
Angeles  
M.F.A., University of Southern  
California

**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

**KIM, Gloria**

History

B.A., University of Washington  
M.A., Ph.D., University of  
California, San Diego

**KIM, Sarah**

Interior Design

B.S., Yonsei University, Korea  
M.F.A., San Diego State  
University

**KLING, Wendell M.**

Fine Arts (Sculpture)

B.A., M.F.A., University of  
California, San Diego

**KOHNENBERG, Terry**

Communication Studies

B.A., California State University,  
Long Beach  
M.A., San Diego State 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

**KUNIYUKI, Ken**

Mathematics

B.S., M.S., Stanford University  
M.A., University of California,  
San Diego

**KUSHKAKI, Mariam**

English

B.A., M.A., San Diego State  
University  
Ph.D., Arizona State University

**LACHER, Kimberly**

English

B.A., University of California,  
Santa Barbara  
M.A., San Diego State University

**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

**LANDEROS, Eduardo**

Business Studies

B.A., Monterrey Institute of  
Technology and Higher  
Learning, Monterrey, Mexico  
M.B.A., National University

**LAZEAR, Susan**

Fashion

B.S., University of Guelph  
M.S., San Diego State University

**LEAVITT, Dean**

Biology

B.S., Brigham Young University  
Ph.D., University of California,  
Davis/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

**LEE, Sam**Computer and Information  
Sciences

B.A., Beijing Normal University,  
Beijing, China  
M.S., Indiana University at  
Bloomington, IN  
M.A., Indiana University at  
Bloomington, IN

**LESSON, Brian**

Hospitality

A.S., State University of New  
York, Delhi  
B.S., State University of New  
York, Buffalo  
M.S., Roosevelt University

**LESTER**, Kim M.  
Exercise Science  
B.S., San Diego State University  
M.Ed., Azusa Pacific University

**LÓPEZ**, César  
Chicano Studies  
B.A., University of Southern  
California  
M.A., Ph.D., University of  
California, Berkeley

**LÓPEZ**, Leticia P.  
Program Manager/HSI  
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

**LUSTER**, Pamela T.  
President  
B.A., M.A., San Jose State  
University  
Ed.D., Fielding Graduate  
University

**MacNEILL**, Andrew  
Dean, School of Learning  
Resources and Academic Support  
B.A., California State University,  
Chico  
M.A., School for International  
Training, Brattleboro,  
Vermont  
Ed.D., San Diego State  
University

**MACIEL**, Tara  
Accounting  
B.S., University of San Diego  
M.S., 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

**MALINIS**, Bryan  
Communication Studies  
B.A., M.A., California State  
University, Long Beach

**MANASSE**, Mark  
Instructional Learning Assistance  
Coordinator  
B.A., University of California,  
Berkeley  
M.A., Monterey Institute of  
International Studies  
Ph.D., University of 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

**MATHIS**, Laura  
Counselor  
B.A., UC Berkeley  
M.S., San Diego State University

**MAXEY**, Larry  
Dean, Student Success and Equity  
B.A., San Diego State University  
M.A., Bellevue University

**MAYASA**, Thekima D.  
Black Studies  
B.A., Afro-American Studies;  
B.A., Economics, M.A., San  
Diego State University

**McLEOD**, Jonathan  
U.S. History  
B.A., M.A., University of  
California, Davis  
Ph.D., University of California,  
Los Angeles

**McDaniels**, Symone  
Learning Resources  
B.A., University of California,  
Berkeley  
M.A., San Diego State University

**MECKSTROTH**, Phyllis  
Mathematics  
B.A., M.A.T., San Diego State  
University

**MILLER**, Victoria  
Dean of Student Affairs  
B.A., University of California,  
San Diego  
M.A., University of San Diego

**MILLS**, Kimberly  
Radiologic Technology  
B.S., M.S., University of St.  
Francis Joliet, Illinois

**MILNER**, Adrienne  
Computer and Information  
Science  
B.S., University of California, San  
Diego  
M.S., University of Southern  
California

**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

**MOHSSENZADEH**, 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

**MONGELLUZZO, Ryan**

Anthropology

B.A., Boston University  
M.A., UC Riverside  
Ph.D., UC Riverside

**MOORE, Danica**

Chemistry

B.S., University of California, San  
Diego  
M.S., University of Oregon

**MORENO IKARI, Jill**

English

B.A., University of California,  
San Diego  
M.A., University of Southern  
California  
Ed.D., San Diego State  
University

**MOTALEB, Pegah**

English

B.A., California State University,  
Northridge  
M.A., California State University,  
San Marcos  
Ed.D., Joint Doctoral Program  
at University of California San  
Diego and California State  
University, San Marcos

**NAIMARK, Katherine**

Mathematics

B.S., Tel Aviv University, Israel  
Ph.D., Weizmann Institute of  
Science, Israel

**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

**NIEMAN, Rebecca**

Business

B.S., University of Minnesota,  
Minneapolis  
J.D., DePaul University College  
of Law

**O'CONNOR, Isabel**

Vice President of Instruction

B.A., University of Alicante  
B.A., Loyola Marymount  
University  
Ph.D., University of California,  
Los Angeles

**ODASSO, Dave**

Communication Studies

B.A., University of California,  
San Diego  
M.A., California State University  
Long Beach

**ONWUCHEKWA, Edeama**

Equity and Engagement Librarian

B.A, University of Nigeria  
M.A, University of Ghana  
MS CIS., California Miramar  
University  
Ph.D., University of South Africa

**ORNELAS, Uriel**

French

A.A., Ventura College  
B.A., San Francisco State  
University  
M.A., San Diego State University

**ORONA, Celia**

English/ELAC

B.A., University of California,  
San Diego  
M.A., M.A., Eastern Michigan  
University

**PACHECO, Miriam**

Counselor

B.A., San Diego State University  
M.S., San Diego State University

**PADILLA BARAJAS, Hannah L.**

Spanish

B.A., Macalester College  
M.A., University of California,  
Santa Barbara

**PALACIOS, Katie**

Instructional Designer

B.A., B.S., University of California  
San Diego  
M.A., San Diego State University

**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., Ed.D., San Diego  
State University

**PARVINI, Shahrokh**

Mathematics

B.S., M.S., Oklahoma State  
University, Stillwater  
Ed.D., Alliant University

**PENROD, Tracy**

Medical Assisting

B.S., PA-C

**PERIGO, Kimberley J.**

Communication Studies

B.A., M.A., Ed.D., San Diego  
State University

**PICKFORD, Robert E.**

English

B.A., M.A., San Diego State  
University

**PLAMBEK, Scott D.**

Communication Studies

B.A., California State University  
Channel Islands  
M.A., San Diego State University

**POGUE-CELY, Kirsten**

Counselor

B.A., Grinnel College in Iowa  
M.A., University of San Diego

**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**RATTNER, Mariette**

Business

B.A., California State University, Long Beach  
M.B.A., University of Southern California**RAY, Waverly**

Geography

B.A., Virginia Tech  
M.A., Texas State  
Ph.D., Texas State**RECALDE, Tina**

Dean, School of Health Sciences and Public Health

B.S., University of California, San Diego  
M.S., Middle Tennessee State University  
DPT, University of Southern California**RENDA, Connie**

Health Information Technology

B.S., Santa Clara University  
M.A., College of St. Scholastica Duluth, Minnesota  
M.A., San Diego State University**RESCH, Nathan P.**

Exercise Science

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**RICO, Cynthia**

Counselor

B.A., San Diego State University  
M.A., San Diego State University  
Ed.D., San Diego State University**RICKETTS, Sean**

Exercise Science

B.A., M.Ed., Cal Poly, San Luis Obispo  
M.A. Northern Iowa University**ROBINSON, N. Scott**

Music

B.A., Rutgers University  
M.A., Ph.D., Kent State University**RODRIGO, Ranmali**

English

B.A., University of California, Davis  
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**RODRIGUEZ, Patricia**

Counselor

B.A., San Diego State University  
M.S., National University**RODRIGUEZ, Raul**

Counselor

B.A., CSU San Bernardino  
M.S., CSU San Bernardino**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**ROMERO, Monica**

Associate Dean, Career Technical Education

B.A., San Diego State University  
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**RUSSELL, Rachel**

Digital Technology

B.A., George Washington University  
M.A., Arizona State University  
Ph.D., University of Southern California**SABALLETT, Alfonso**Computer Business Technology/  
MultimediaB.S., Loyola University, Chicago  
M.S., National University, San Diego**SAIDANE, Saloua**

Chemistry

B.S., M.S., Ph.D., University of Tunis, Tunisia

**SALINE-STYLES, Leslie A.**

American Sign Language

B.A., M.A., Gallaudet University

**SAMANIEGO, Lindsay**

Exercise Science

B.S., San Diego State University  
M.S., Azusa Pacific University**SANCHEZ, Robert J.**

Fine Art (Painting &amp; Drawing)

B.F.A., Memphis College of Art  
M.A., University of New Mexico, Albuquerque**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**SARDO, Jessica**

Chemistry

B.S., Fairfield University  
Ph.D., University of California, San Diego

**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

**SCHOUGAARD, Allan**  
Computer and Information  
Sciences  
M.S., University of Copenhagen  
M.A., San Diego State University  
M.B.A., National University

**SECOR, Kristian**  
Web Development  
B.S., Syracuse University  
M.S., Quinnipiac University  
Ed.D., Argosy 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

**SHAPIRO, Lisa**  
Business  
B.A., University of California,  
Berkeley  
M.S., Antioch University in New  
Hampshire

**SHARMA, S.K.**  
Ph.D., California Institute of  
Technology

**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

**SHIMAZAKI, Leslie**  
Dean, Arts and Languages and  
Acting Dean, School of Social &  
Behavioral Sciences/Multicultural  
Studies  
B.A., University of San Diego  
M.A., Alliant International  
University

**SHUMAKER, Ryan**  
Dean, Exercise Science, Health  
Education, Dance, and Athletics  
B.S., MBA, Southern Illinois,  
Carbondale  
Ed.D., San Diego State  
University

**SIEGEL, Steven**  
Physics  
B.S., Boise State University  
M.S., Idaho State University

**SIME, Jennifer**  
Anthropology  
B.A., University of California,  
Berkeley  
M.A., Ph.D., Columbia University

**SMILEY, Jordyn**  
Fashion  
B.S., California Polytechnic State  
University  
M.F.A., San Diego State  
University

**SMITH, Wendy**  
English  
B.A., University of California,  
San Diego  
M.A., San Diego State University

**SMULEVITZ, Cara**  
B.A., University of Illinois,  
Chicago  
M.A., School of Art Institute of  
Chicago  
Ph.D., University of Illinois,  
Chicago

**SNYDER, Jennifer**  
Physical Sciences  
Ph.D., Western Michigan State

**SOJOURNER, Raquel**  
Counselor  
B.A., University of California,  
Irvine  
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

**SPOON, Kelly**  
Mathematics  
B.A., University of California San  
Diego  
M.S., San Diego State University

**STARBUCK, Scott**  
English  
B.S., Western Oregon State  
College  
M.F.A., Eastern Washington  
University, Cheney

**STELLMACHER, Krista L.**  
Director of Resource  
Development  
B.A., University of California San  
Diego

**STOJIMIROVIC, Irena**  
Ph.D., University of  
Massachusetts (Amherst)

**STOLL, Dawn**  
DSPS, Counselor  
B.A., University of California,  
Santa Cruz  
M.S., San Diego State University

**SUAREZ, Scott**  
Anthropology  
B.A., College of William & Mary  
M.A., Ph.D., Stony Brook  
University

**SULLIVAN, Chris**  
English  
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  
Exercise Science, Soccer  
B.A., M.A., Gdansk University,  
Poland

**TEMPLE**, Michael V.  
Counselor  
A.A., Grossmont College  
B.A., University of Montana,  
Missoula  
M.A., San Diego State University

**TIFFANY**, Caitlin  
Assistant Professor, Biology  
B.S., University of California,  
Davis  
M.S., San Diego State University

**TOPHAM**, Susan  
Dean, Mathematics and Natural  
Sciences  
B.S., US International Univ.  
M.A., US International Univ.  
Ed.D., Brandman University

**TORRES**, Oscar  
Psychology  
B.S., M.A., Ph.D., University of  
Texas, El Paso

**TOTH**, Juan Carlos  
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

**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

**VILLALOBOS**, Jorge  
English/ELAC  
B.A., California State University,  
San Marcos  
M.A., California State University,  
San Marcos

**VOLATIER**, Christina Sanchez  
Sociology  
B.A., University of San Diego  
M.A., San Diego State University  
Ph.D., University of Miami

**WADE**, Lauren  
Accounting  
B.A., M.A., University of San  
Diego

**WALKER**, Tracey  
English/ELAC  
B.A., M.A., San Diego State  
University

**WATKINS JR., Gary**  
Exercise Science  
B.A., Chapman University  
M.A., American Military  
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

**WHITE**, Todd C.  
Biology  
B.S., University of California San  
Diego  
Ph.D., University of Arizona

**WHITFIELD**, Tonya  
Culinary Arts/Culinary  
Management  
A.A., Mesa College  
B.A., Colorado State University

**WILLIAMS**, Lisa  
Exercise Science, Basketball  
B.S., Eastern Illinois University  
M.S., Arizona State University

**WILLIAMS**, Melissa  
Counselor, DSPS  
B.S., M.S., San Diego State  
University

**WONG**, Robert  
Architecture  
B.S., M.S., Woodbury University

**YE**, George  
Drama  
B.A., Emporia State University  
M.A., University of North  
Carolina at Chapel Hill  
M.F.A., Florida Atlantic  
University

**ZABALETA**, Francisco S.  
Spanish  
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

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 Faculty  
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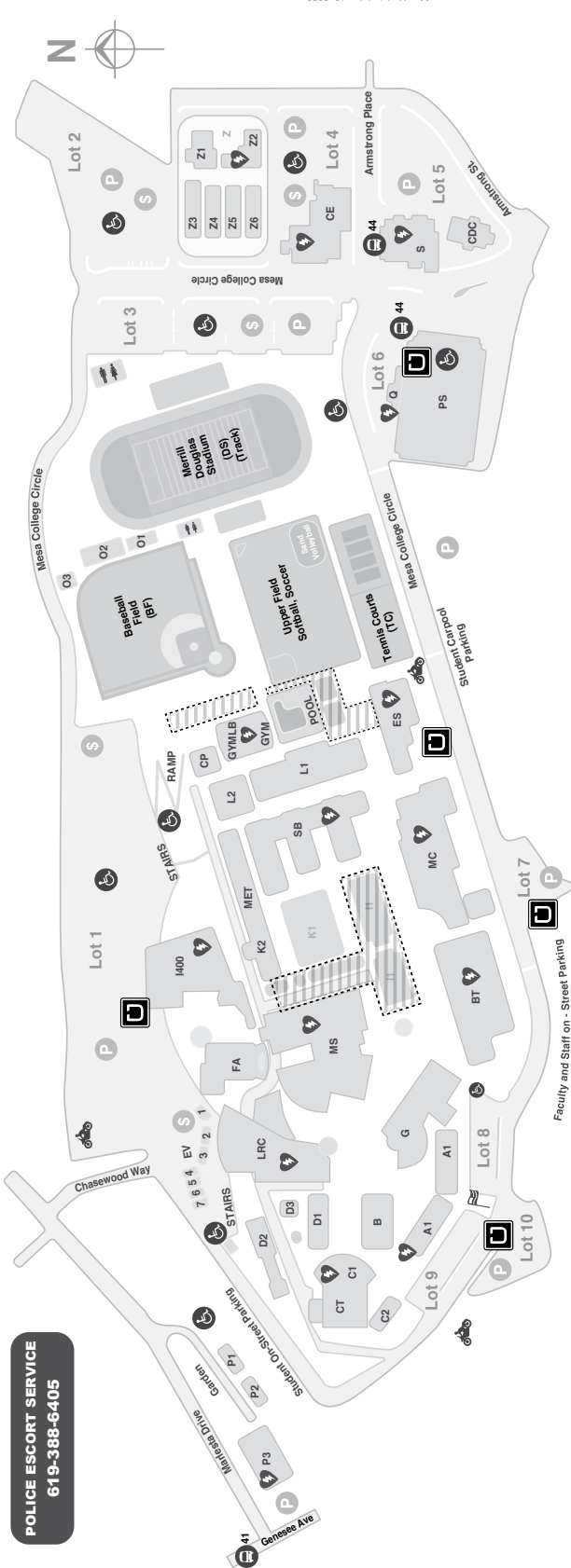
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# SAN DIEGO MESA COLLEGE

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- A1 President, V.P. Instruction
- A1 VP Administration Services (101-105)
- A1 Administrative Offices (106-117)
- B1 Classrooms B100
- BT Center for Business and Technology
- C1-CT Classrooms C200
- CDC Child Development Center
- CE Continuing Education Building
- CP Central Plant
- D1 VRC, NextUP, Honors and English D100
- D2 Classrooms D300
- D3 Merrill Douglas Stadium
- DS Exercise Science
- EV English Village
- G Humanities & Multicultural Studies
- GYM Main Gym
- IT Temporarily Offline

- FA Fine Arts
- I400 Student Services Center and Classrooms\*
- K1 Technology Office
- L1 Exercise Science L100
- LRC Learning Resource Center
- MET Met High School (K200)
- MC Mesa Commons\*
- MS Math and Science Complex
- P1 Classrooms P100
- P2 Storage P200
- P3 Animal Health Technology P300
- PS Parking Structure
- Q Mesa College Police Offices Q100
- S Allied Health Education S100, S200, S300
- SB Social and Behavioral Sciences Building
- Z Mesa College Design Center

- \* Student Services Center  
The Stand  
AWAZA Engagement Center  
CAIWORKS
- \* Administration Offices  
Inst. Effectiveness and Research  
Foundation/Resource Dev.  
Office of Communications
- \*Mesa Commons  
Cafeteria  
Campus Store  
Culinary Outlook
- Printing and Mail Services  
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College Technology Services
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