PROGRAMS AND COURSES

NURSING LAB, CCSF
(PHOTOGRAPH BY KATIE LOUX)

PROGRAMS AND COURSES

Institutional Learning Outcomes

Students who successfully complete their educational programs at CCSF will achieve all or an appropriate set of the following Institutional Learning Outcomes:

1. Critical Thinking and Information Competency
   - Apply quantitative reasoning to questions or problems
   - Locate, evaluate, and use information appropriately
   - Use critical or creative reasoning, including diverse perspectives
2. Communication
   - Communicate effectively
   - Demonstrate respectful interpersonal and intercultural communication
   - Recognize and interpret creative expression
3. Cultural, Social, and Environmental Awareness
   - Examine the history and values of diverse cultures
   - Evaluate the impact of civic, social, and/or environmental choices
   - Engage effectively with others in diverse social and/or cultural settings
4. Personal and Career Development
   - Assess one's strengths to evaluate areas for personal, academic, or career development
   - Make use of resources or opportunities for personal, academic, or career development
   - Maintain and improve one's health and safety and/or that of others
   - Use technology in pursuit of intellectual growth and/or career development

Degree and Certificate Curricula

City College of San Francisco offers degree, credit certificate, and noncredit certificate courses of study.

Degree Curricula

A degree curriculum requires completion of 60 or more semester units (normally two years of full-time work) in conformance with the requirements of a particular department of instruction. (Students who have not satisfied course prerequisites may need more than two years to complete a degree curriculum.) Students who satisfy these requirements receive the degree of Associate in Arts for Transfer (AA-T), Associate in Science for Transfer (AS-T), Associate in Arts (AA), or Associate in Science (AS). General requirements for these degrees are outlined in the Associate Degree Graduation Requirements section of this catalog; information on requirements for the degree majors is detailed in this Programs and Courses section.

Certificate Curricula — Credit

City College offers two types of credit certificates, Certificate of Achievement and Certificate of Accomplishment, which prepare students for entry-level employment or further study, add special knowledge and skills to existing occupational competence, or mark an accomplishment in a particular area.

A Certificate of Achievement is a sequence of courses usually consisting of 16 or more units of degree-applicable coursework that has been approved by the State Chancellor's Office. Students who successfully petition for a Certificate of Achievement will have the name of the certificate appear on their transcript.

A Certificate of Accomplishment is a sequence of courses consisting of fewer than 16 units of degree-applicable coursework. Students who successfully petition for a Certificate of Accomplishment will not have the name of the certificate appear on their transcript.

Credit that students earn in a certificate curriculum may also be used toward satisfaction of the requirements for graduation from the College with an Associate Degree.

Certificate Curricula — Noncredit

City College offers two types of noncredit certificates, Certificate of Completion and Certificate of Competency, which prepare students for entry-level employment or further study. A Certificate of Completion is a sequence of courses designed to prepare students to progress in a career path or to undertake degree-applicable or non-degree applicable credit courses. A Certificate of Competency is a sequence of courses preparing students to demonstrate achievement in a set of competencies that prepares the student to progress in a career path or to undertake degree-applicable or non-degree applicable credit courses. Some noncredit certificate programs meet required guidelines for student financial assistance.

Course Information

Course Identifiers

Courses are identified by a subject and a number (for example, MATH 97), a subject and a number/letter combination (for example, CS 110A), or by a subject and a letter (for example, ENGL L).

Units

The number or numbers in parentheses following the title of a course indicate its semester unit (s.u.) value. Note that the semester unit is not equal to a quarter unit (q.u.). (2 s.u. = 3 q.u.)

Method of Delivery

For credit courses, the total number of hours of lecture (lec), laboratory (lab), and/or work experience (work) are given.

Grading

Some courses may be taken on a pass/no pass or a letter grade basis. Others may be taken only on a pass/no pass basis. This is indicated by "P/NP available" and "P/NP only" respectively on the same line as the delivery pattern. In this symbolism "available" means the "P" (pass) or "NP" (no pass) grades are available for the course instead of the regular grades of "A" through "F" if the election to take the course for pass/no pass is made at registration or by the end of the first 30% of the term of offering for the course. If no notation occurs regarding pass/no pass, the course is a "letter grade only" course.

Prerequisites, Corequisites, and Advisories

Some courses may require students to have taken a course prior to enrollment (prerequisite), or may require courses to be taken simultaneously (corequisite). Others may have recommended, but not required, preparation (advisory). See the "Challenge of a Prerequisite or a Corequisite" section of the Academic Policies section of this Catalog for information about challenging prerequisites.

Repeatability

Some credit courses may be repeated even if a student has taken the course previously. Repeatability limits are typically expressed as a maximum number of units that a student can accumulate in the same

course (original enrollment plus any repetitions). In some cases, the repetition limit is expressed as a total number of enrollments (original enrollment plus any repetitions). When a department offers a series of courses on the same topic, and a repetition limit applies across the series of courses, the limit is expressed in terms of a combination of units across the set of courses (e.g., Repeat: ASAM 61-62-63 combined, maximum 15 units).

Field Trips

Some courses may require field trips; others have optional field trips. The instructor will specify details about any field trips in the course syllabus.

Transferability

A basic description of the course content generally concludes the course announcement. At the end of this description, the abbreviation CSU indicates that the course transfers for elective credit to any California State University, and the abbreviation UC indicates that the course is acceptable for elective credit at all campuses of the University of California. Courses designated as "UC upon review" are independent studies or variable topics courses which may earn UC elective credit, but which must be evaluated by the UC campus at the time the student is admitted for transfer before credit can be granted.

Course Offering Frequency

Unless otherwise noted, courses are generally offered in both Fall and Spring semesters.

Course History

If the course recently had a different CCSF course number or if an equivalent CCSF course exists, that information will be the last item in the announcement, for example "Formerly ENGL 5A" or "SPAN 2A-2B = SPAN 2." If the course has been taken under its former number and a grade of "C" or better or of P has been earned, the newly numbered course may not be taken because the two are really the same. In addition, if two courses are listed as equivalent, only one of the two may be taken.

C-ID Number

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by individual California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if the course description displays a C-ID number, for example COMM 110, students can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to ***www.assist.org*** to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit. Updated information on C-ID course approvals is available at ***http://www.c-id.net/course_compare.html***.

Schedule of Classes

Students should check the time schedules, published separately, for the times when courses are offered. The schedules also identify the locations at which the courses will be taught. The Time Schedule is available at the College Bookstore; the Office of Admissions and Records, MUB 188; and the Registration Center, MUB 130B. To see the Time Schedule online, visit: ***http://www.ccsf.edu/Schedule***

Administration of Justice and Fire Science

Office: Batmale 213
Phone Number: 239-3202
Web Site: *www.ccsf.edu/admnjust*

Announcement of Curricula

General Information

This Department offers curricula in two fields—Administration of Justice and Fire Science Technology. Each two-year curriculum is designed to prepare students for civil-service and related private sector employment and also satisfies College graduation requirements. The following is a description of the program.

Administration of Justice

Degree Curriculum

The curriculum in Administration of Justice is arranged to meet the needs of three groups of students: those who plan to seek employment with public and private agencies concerned with maintaining public safety, crime prevention, treatment, rehabilitation and research; those who are employed by a correctional or law-enforcement agency and desire to obtain training for promotion; and those who desire to obtain background in administration of justice in preparation for the study of policing, probation and parole, social welfare, law, and non-profit community corrections.

Admission. Enrollment is open to all interested students.

Course of Study. The two-year course of study includes instruction in the following: introduction to administration of justice, principles and procedures of the justice system, criminal identification, criminal law, organized crime and gangs, criminal investigation, physical evidence, narcotic investigation, probation and parole, juvenile procedures, and law enforcement field work. Beside instruction in administration of justice, the curriculum includes course work in general education so that students may satisfy the College graduation requirements in this area.

Credit for Preservice Training in Administration of Justice. Administration of Justice majors who have completed a minimum of 12 semester units at City College, and who have also completed a preservice administration of justice-training program certified by the Commission on Peace Officers Standards and Training of the Department of Justice of the State of California, may petition the Administration of Justice Department for six semester units to be applied toward completion of the curriculum in administration of justice. A transcript or other acceptable evidence of completion of the preservice training program must be submitted with the petition.

Approval of Instruction. The curriculum is offered in cooperation with local agencies concerned with the administration of justice and is reviewed annually by an advisory committee composed of persons active in the field of law enforcement. In-service courses within the curriculum are certified by the Commission on Peace Officers Standards and Training of the Department of Justice of the State of California. For more information about this agency, see the "Overview of the College" section of this Catalog.

Employment. Students who complete the curriculum satisfactorily may be qualified to take civil-service examinations for employment with federal, state, county, and city agencies in capacities such as the

following: investigator; forensic identification, highway patrol, correctional officer; juvenile counselor; police officer; or deputy sheriff. Graduates are also qualified for employment as private investigators and private security officers.

Administration of Justice Major (AS-T)

Associate in Science in Administration of Justice for Transfer. This course of study prepares students for transfer, particularly to CSU, to complete work for a bachelor's degree in criminal justice. Students will be able to describe the individual functions and components of the modern criminal justice system; use introductory concepts of legal research as it relates to discussing the content of statutory and case law; and explain the underlying cause of antisocial and criminal behavior. This program is appropriate for students considering law school or careers in law enforcement.

Learning Outcomes

Upon completion of this program, students will be able to:

- Relate the theory, techniques, and knowledge of law enforcement to criminal justice system processes.
- Evaluate the legal aspects of criminal investigations, constitutional law, and case law.
- Interpret the laws and procedures relied upon for the collection and use of evidence.
- Examine the ethical standards placed on law enforcement professionals in the American justice system

Students who wish to earn the Associate in Science in Administration of Justice for Transfer (AS-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AS-T in Administration of Justice

Course	Units
Required	
ADMJ 52 Concepts of Criminal Law	3.0
ADMJ 57 Introduction to Administration of Justice	3.0
Choose two (2) of the following	
ADMJ 51 Juvenile Procedures	3.0
ADMJ 53 Legal Aspects of Evidence	3.0
ADMJ 54 Principles and Procedures of the Justice System	3.0
ADMJ 62 Criminal Investigation	3.0
ADMJ 66 Forensic Evidence	3.0
Choose two (2) of the following	
PSYC 1 General Psychology	3.0
or SOC 1 Introduction to Sociology	3.0
or One of the following Statistics courses:	
ECON 5 Introductory Statistics for Economics, Business and Social Sciences	5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
MATH 80 Probability and Statistics	5.0
PSYC 5 Statistics for Behavioral Sciences	5.0
Total:	**18.0 – 20.0**

Administration of Justice Major (AS)

The Associates Degree in Administration of Justice provides a strong theoretical and practical foundation for a broad range of careers in criminal justice, such as police officer, deputy sheriff, coroner, inspector, corrections, parole, and district attorney investigators. Students must complete required and elective courses in Administration of Justice and satisfy the General Education requirements of the college.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the history, structure, and functions of the main components of the American criminal justice system.
- Analyze principles and applications of California and Constitutional law, particularly the requirements adhered to by law enforcement, courts, and corrections.
- Produce written communications that meet the professional standards of the criminal justice system.
- Analyze critical contemporary problems and issues within criminal justice, such as nationwide crime rates, prison population and buildup, the costs of incarceration, and individuals killed by police
- Implement investigative and forensic skills, techniques, and procedures in a variety of practical settings.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is 4 semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Administration of Justice

Course	Units
Required	
ADMJ 52 Concepts of Criminal Law	3.0
ADMJ 53 Legal Aspects of Evidence	3.0
ADMJ 54 Principles and Procedures of the Justice System	3.0
ADMJ 57 Introduction to Administration of Justice	3.0
ADMJ 62 Criminal Investigation	3.0
ADMJ 64 Progressive Policing in the 21st Century	3.0
ADMJ 68 Criminal Justice Report Writing	3.0
Choose 9 units from the following	
ADMJ 51 Juvenile Procedures	3.0
ADMJ 55 Administration of Justice and the LGBTQ+ Community	3.0
ADMJ 59 Organized Crime	3.0
ADMJ 63 Fingerprints	3.0
ADMJ 65 Criminal Justice, Drugs, Crime and the Law	3.0
ADMJ 66 Forensic Evidence	3.0
ADMJ 67 Terrorism and Counterterrorism	3.0
ADMJ 69 Crime Scene Documentation	3.0
ADMJ 70A Patrol Procedures	3.0
ADMJ 71 Student Campus Patrol Work Experience	1.0 – 3.0
ADMJ 80 Community Corrections	3.0
ADMJ 82 Criminal Justice Work Experience	1.0 – 3.0
ADMJ 83 Criminal Justice Career Preparation	3.0

ADMJ 85 P.C. 832 Arrest and Control Certification. 3.0
F SC 145 Introduction to Homeland Security 3.0
Total: 30.0

Certificate Curricula

The certificate program is designed to meet the needs of students who want to obtain entry-level positions and/or promotional positions within law enforcement agencies in the public sector and employment opportunities within the private security sector. It also provides students who are currently employed in law enforcement an opportunity to increase their knowledge in the field of Administration of Justice and enhance their skills and abilities as police officers, correctional officers, probation and/or parole officers, investigators and private security officers. This program also provides an opportunity for students returning to college after completing an Associate in Arts/Science or Baccalaureate degree in other fields to earn a certificate in Administration of Justice without completing the general education requirements for graduation from City College.

Administration of Justice Certificate

This Certificate of Achievement in Administration of Justice provides students with foundational, practical, and theoretical knowledge in the main components of the American criminal justice system, and prepares students for entry-level positions in a wide range of criminal justice occupations including law enforcement, courts, corrections, and private security.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the history, structure, and functions of the main components of the American criminal justice system.
- Analyze principles and applications of California and Constitutional law, particularly the requirements adhered to by law enforcement, courts, and corrections.
- Produce written communications that meet the professional standards of the criminal justice system.
- Analyze critical contemporary problems and issues within criminal justice nationwide crime rates; prison population and buildup; the costs of incarceration; and individuals killed by police
- Implement investigative and forensic skills, techniques, and procedures in a variety of practical settings.

This certificate is available for students who do not choose to complete the general education requirements for graduating with the AS degree in Administration of Justice.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Administration of Justice

Course . . . . . Units
Required
ADMJ 52 Concepts of Criminal Law 3.0
ADMJ 53 Legal Aspects of Evidence. 3.0
ADMJ 54 Principles and Procedures of the Justice System 3.0
ADMJ 57 Introduction to Administration of Justice 3.0
ADMJ 62 Criminal Investigation 3.0
ADMJ 64 Progressive Policing in the 21st Century 3.0
ADMJ 68 Criminal Justice Report Writing 3.0
Total: 21.0

Basic Police Officer Certificate

Principles, procedures, and techniques of law enforcement: criminal law, patrol and investigative procedures, report writing, use of force tactics, weapons use, community relations, vehicle operations, traffic enforcement, accident investigation, first aid, CPR, academic and physical skills training and assessment required by the State Commission on Peace Officer Standards and Training to meet the minimum standards for employment as a peace officer in California (1280 in-class hours).

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the legal and ethical principles and procedures associated with the duties of a police officer.
- Interpret and apply criminal law.
- Implement appropriate patrol and investigation procedures.
- Manage and write accurate law enforcement reports.
- Employ legally approved defensive policing tactics and appropriate levels of use of force

Admission Requirements. California P.O.S.T. (Commission on Peace Officer Standards and Training) reading and writing exam or employment by a P.O.S.T. approved agency; Department of Justice clearance; medical verification: clearance from a licensed physician to participate in intensive physical activity commensurate with a police academy.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Basic Police Officer

Course . . . . . Units
Required
ADMJ 101 Basic Police Academy. 38.5
ADMJ 72 Police Work Experience 8.0
Total: 46.5

Crime Scene Investigation Certificate

The 18-unit certificate in Crime Scene Investigation offers instruction in the areas of crime scene processing and documentation, evidence preservation, fingerprints, photography, report writing, and legal issues relating to physical evidence. The curriculum is designed to meet the needs of students desiring an entry-level, civilian position working crime scenes or handling evidence, or enhancing the credentials of police officers in order to join a sworn CSI unit. Students may earn the certificate as a stand-alone credential or as part of their Associate of Science degree in Administration of Justice.

Learning Outcomes

Upon completion of this program, students will be able to:

- Display foundational knowledge in the history and subdisciplines of forensic science, lab organization, and analytical techniques.
- Articulate a realistic perspective of the field of forensic science and operations of crime scene investigation.
- Apply knowledge of sequential fingerprint development techniques for porous and non-porous surfaces.
- Write clear, correct, detailed, and descriptive reports.
- Utilize appropriate methods to document, collect, and preserve evidence at a variety of crime scenes.
- Apply critical thinking, logic, and the scientific method to investigating crime scenes.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Crime Scene Investigation

Course	Units
First Semester:	
ADMJ 52 Concepts of Criminal Law	3.0
ADMJ 57 Introduction to Administration of Justice	3.0
ADMJ 68 Criminal Justice Report Writing	3.0
Second Semester:	
ADMJ 63 Fingerprints	3.0
ADMJ 66 Forensic Evidence	3.0
ADMJ 69 Crime Scene Documentation.	3.0
Total:	**18.0**

Criminal and Constitutional Law Certificate

This certificate addresses a citizen's criminal and civil rights under the United State Constitution. Students will learn about criminal statutes and protections provided by the Constitution. Students will review the court system, procedures from incident to final disposition in the criminal justice system, and principles of civil law with constitutional, federal, state and local emphasis. The concepts and skills covered in this certificate provide support for employment in fields such as detective and criminal investigators, fire investigators, forensic science technicians, administrative law judges or hearing officers, immigration and custom inspectors, lawyers, and government property inspectors and investigators.

Learning Outcomes

Upon completion of this program, students will be able to:

- Compare the relationship of the legislative and judicial branches of the government to the U.S. Constitution and the Penal Code of California
- Explain each step of the criminal justice process from arrest to trial
- Describe the various types of law
- Evaluate ways that individuals can effectively participate in politics at the national, state, county, and/or local levels
- Analyze the contemporary history and role of race and ethnicity in the American political system

Students must complete five (5) of the six (6) courses at City College of San Francisco.

The minimum time for completion of this certificate is four semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Criminal and Constitutional Law

Course	Units
Required courses:	
ADMJ 52 Concepts of Criminal Law	3.0
ADMJ 53 Legal Aspects of Evidence.	3.0
ADMJ 54 Principles and Procedures of the Justice System	3.0
POLS 1 American Government	3.0
POLS 12 Ethnic Politics in the United States	3.0
POLS 43 The Constitution and Individual Rights	3.0
Total:	**18.0**

Public Safety LGBTQ+ Awareness Certificate

The Public Safety LGBTQ+ Awareness Certificate of Achievement examines the structure of the American criminal justice system and its relationship with the LGBTQ+ community. It provides an increased understanding of the LGBTQ+ community, with an emphasis on communities of color, for new and incumbent public safety personnel by meeting the requirements of California Penal Code section 13519.41.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the history of the LGBTQ+ community and policing in the contexts of race and class.
- Explain the differences between sexual orientation and gender identity.
- Recognize and apply the laws and civil rights related to the LGBTQ+ community.
- Examine strategies for public safety agencies to build effective relationships and trust with the LGBTQ+ community.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Public Safety LGBTQ+ Awareness

Course	Units
Required	
ADMJ 54 Principles and Procedures of the Justice System	3.0
ADMJ 55 Administration of Justice and the LGBTQ+ Community	3.0
ADMJ 57 Introduction to Administration of Justice	3.0
LGBT 18 Transgender Lives, Culture and Art	3.0
ADMJ 64 Progressive Policing in the 21st Century	3.0
LGBT 50 LGBT Communities of Color in the U.S.	3.0
Total:	**18.0**

Fire Science Technology

General Information

The curriculum in Fire Science Technology is designed to provide training for three groups of students: those who plan to seek employment as members of city and county fire departments and other governmental agencies that involve fire prevention, fire investigation, fire suppression, and fire protection engineering; those who are employed in the fire service who want further technical training to prepare for promotion; and those who plan to seek private employment as safety instructors in industry, insurance adjusters, fire-protection technicians, fire equipment salespeople, and fire-equipment installers.

Admission. Enrollment is open to all interested students.

Accreditation. The curriculum in Fire Science Technology is accredited by the State Fire Marshal's Office of State Fire Training. For more information about this agency, see the "Overview of the College" section of this Catalog.

Course of Study. The California Community College Association of Fire Technology Directors recommends that six courses be offered as a basis for all fire technology programs in the State of California. These courses are: introduction to fire protection, fire prevention, fire protection equipment and systems, building construction for fire protection, fire behavior and combustion, principles of fire emergency services, safety and survival. These courses serve as the basis of the fire science technology program at City College of San Francisco along with a pre-hospital emergency care and wildland fire control courses. This curriculum

represents the base knowledge, the foundation, upon which a student can build, regardless of where he or she works in the fire protection field.

Fire Science Technology Major (AS)

Students completing the Fire Science Technology Major will be eligible for career positions such as Firefighter, Fire Prevention Specialists, Wildland Firefighter, Fire Investigator, Fire Engineer, Fire Hydraulics specialist, First Responder, Emergency Medical Technician, and Life Safety Directors in High Rise Buildings.

Learning Outcomes

Upon completion of this program, students will be able to:

- Articulate fire department organizational structure and operational levels.
- Compare fire suppression systems and fire prevention programs that protect the public in various types of building construction.
- Compare the effects of topography, aspect, and environmental factors on wildland fire behavior, suppression, and prevention.
- Define occupational safety and health concerns as they relate to emergency service organizations, including medical emergencies and activation of the 911 system

Students must complete at least 4 of the 7 required courses at CCSF.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Fire Science Technology

Course	Units
Required	
F SC 50 Introduction to Fire Science	3.0
F SC 52A Fire Protection Equipment & Systems	3.0
F SC 53 Building Construction for Fire Protection	3.0
F SC 55 Wildland Fire Control	3.0
F SC 57 Principles of Fire and Emergency Services: Safety and Survival	3.0
F SC 61A Introduction to Fire Prevention	3.0
F SC 64 Fire Behavior and Combustion	3.0
Choose one of the following options	
OPTION ONE	
EMT 100 Emergency Medical Technician	8.0
OPTION TWO	
F SC 17 Public Safety: Emergency Medical Response	3.0
and F SC 62 Rescue Practices	3.0
Choose 3 units from the following if not used above	
F SC 51A Fire Tactics and Strategy	3.0
F SC 62 Rescue Practices	3.0
F SC 63 Vehicle Extrication	0.5
F SC 65 Hazardous Materials First Responder Operations	3.0
F SC 107A Fire Training Work Experience	0.5
F SC 107B Fire Training Work Experience	2.5
F SC 111 Firefighter One Academy	13.0
F SC 145 Introduction to Homeland Security	3.0
F SC 150 Fire Service Career Preparation	2.0
LBCS 94D Labor Relations in America	1.0
Total:	**30.0 – 40.5**

Certificate Curricula

The certificate programs are designed to meet the needs of students who want to obtain entry-level positions in the fire protection field whether in the public or the private sector. These programs also provide an opportunity for students returning to college after completing a degree in other fields to earn a certificate in fire protection without completing the general education requirements for graduation from City College.

Basic Fire Academy (Accredited Local Academy) Certificate

Basic Fire Academy (Accredited Local Academy) is for entry level Firefighter positions with the San Francisco Fire Department. Training meets the standards of the National Fire Protection Association and California State Fire Marshal Office of State Fire Training, and the Firefighter (2019) curriculum. Emphasis is on Firefighter training, Wildland Firefighter training, and Hazardous Materials /Weapons of Mass Destruction WMD) training in areas such as fire service communications, fire-ground and rescue operations, preparedness and maintenance of fire service equipment and specialized apparatus, mitigation of hazardous materials incidents, recognition of potential WMD incidents, and assistance of scene preservation for law enforcement.

Learning Outcomes

Upon completion of this program, students will be able to:

- Execute job knowledge and performance specific to the firefighter profession.
- Recognize and execute decisions related to wildland fire incidents, including use of personal protective equipment, wildland fire tools and apparatus, wildland fire safety, and fire suppression operations
- Identify and define hazardous materials and associated risks present in a hazardous materials emergency,
- Assess patient status and apply the correct basic life support interventions to patients with a variety of emergency medical and traumatic conditions, in accordance with local and national EMT protocols.

Entry level Firefighters are required to have a current EMT certification; AHA BLS Healthcare Provider or Red Cross CPR for Professional Rescuer; Passing score on the Candidate Physical Agility Test (CPAT); Live Scan; valid California Driver's License.

The minimum time for completion of this certificate is four semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Basic Fire Academy (Accredited Local Academy)

Course	Units
Required	
F SC 108 Fire Service Work Experience	8.0
F SC 110 Basic Fire Academy	24.5
Total:	**32.5**

Company Officer Certificate

Company Officer is the first certification in the California Office of the State Fire Marshal (OSFM) Officer series. The Company Officer Certification utilizes NFPA 1021 Standard for Fire Officer Professional Qualifications (2020) and NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications (2020) to provide the qualifications for State Fire Training's Company Officer certification.

Learning Outcomes

Upon completion of this program, students will be able to:

- Evaluate member performance, supervise personnel, and integrate health and safety plans and safe procedures into daily activities in emergency and non-emergency environments.
- Describe general administrative functions and how the implementation of department policies and procedures convey the fire department's role, image, and mission to the public.
- Conduct fire inspections and fire investigations that identify hazards and violations as well as preserve crime scenes.
- Utilize the Incident Command System (ICS) to manage resources on single and multi-unit incidents such as wildland fires.
- Deliver a course of instruction on officer competencies and supervisory responsibilities from a prepared lesson plan utilizing instructional aids and evaluation methods.

The minimum time for completion of this certificate is 5 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester, and availability of classes offered each semester.

Courses Required for the Certificate of Achievement in Company Officer

Course	Units
Required	
F SC 75A Company Officer 2A: Human Relations Management	2.0
F SC 75B Company Officer 2B: General Administrative Functions	1.0
F SC 75C Company Officer 2C: Fire Inspections and Investigations	2.0
F SC 75D Company Officer 2D: All-Risk Command Operations	2.0
F SC 75E Company Officer 2E: Wildland Incident Operations	2.0
F SC 75F Instructor I State Fire Trng	2.0
Total:	**11.0**

Firefighter 1 Academy Certificate

Includes the principles, procedures, and techniques of firefighting and rescue. Technical and manipulative skills and concepts of fire control, fire behavior, tactics and strategy, and emergency management will be reviewed and put into practice during this course. The student will be trained according to the National Fire Protection Association, Standard 1001, and the California State Fire Marshal Office of State Fire Training Firefighter 1 and 2 that emphasize training in Firefighter 1 and 2, Wildland Firefighter, and Hazardous Materials First Responder Operations. Students completing this certificate program will be qualified to test for employment with agencies and departments hiring entry level firefighters.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the standards for Firefighter as established by the National Fire Protection Association and the California State Fire Marshal Office of State Fire Training
- Apply the standards for Wildland Firefighter as established by the National Fire Protection Association and the California State Fire Marshal Office of State Fire Training
- Apply the standards for Hazardous Materials First Responder Operations as established by the National Fire Protection Association and the California State Fire Marshal Office of State Fire Training

In addition to satisfying course prerequisites, students must have documented clearance from a licensed physician to participate in intensive physical activity required of the F SC 111 Firefighter One Academy Program. Minimum hiring requirements to be a Firefighter include a current Emergency Medical Technician (EMT) Certification, but EMT certification is not required to apply for the City College Fire Academy program.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Firefighter 1 Academy

Course	Units
Required Courses	
F SC 17 Public Safety: Emergency Medical Response	3.0
F SC 50 Introduction to Fire Science	3.0
F SC 55 Wildland Fire Control	3.0
F SC 62 Rescue Practices	3.0
PE 29A Beginning Firefighting and Public Safety Conditioning	2.0
F SC 111 Firefighter One Academy	13.0
Recommended Additional Coursework	
EMT 100 Emergency Medical Technician	8.0
Total:	**27.0**

Fire Protection Certificate

This program is designed to prepare students for employment or career advancement in fire protection jobs. It may be of particular interest to students with existing degrees looking to change careers. It is also available for persons who do not want to complete the general education requirements for graduation.

Learning Outcomes

Upon completion of this program, students will be able to:

- Evaluate fire suppression and fire prevention systems that protect the public in various types of building construction.
- Explain the effects of topography, aspect, and environmental factors on wildland fire behavior, suppression, and prevention operations.
- Describe fire department organizational structure and operational levels.
- Analyze occupational safety and health concerns as they relate to emergency services, including basic life support or advanced life support assistance in medical emergencies.

Students must complete 6 of the 8 core courses at City College of San Francisco.

The minimum time for completion of this certificate is two semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Fire Protection

Course	Units
Required	
F SC 50 Introduction to Fire Science	3.0
F SC 52A Fire Protection Equipment & Systems	3.0
F SC 53 Building Construction for Fire Protection	3.0
F SC 55 Wildland Fire Control	3.0

F SC 57 Principles of Fire and Emergency Services: Safety and Survival 3.0
F SC 61A Introduction to Fire Prevention 3.0
F SC 64 Fire Behavior and Combustion. 3.0

Choose one of the following courses
F SC 17 Public Safety: Emergency Medical Response 3.0
EMT 100 Emergency Medical Technician 8.0

Total: . . . . . 24.0 – 29.0

Homeland Security Certificate

The Homeland Security Certificate of Achievement is designed to give students an up-to-date overview of the issues in Homeland Security, with an emphasis on the role of first responders. Using an "all-hazards" perspective, this certificate will help prepare students for public or private sector employment in Homeland Security and related areas, such as transportation security officers, program analysts, intelligence researchers, criminal investigators, and border patrol agents.. Veterans with a background in homeland security related issues are encouraged to consider this program as a way to leverage military experience into civilian employment.

Learning Outcomes

Upon completion of this program, students will be able to:

- Compare and contrast the main issues and threats in homeland security
- Analyze law enforcement first responder roles in providing public safety from Homeland Security threats
- Analyze fire service first responder roles in providing public safety from Homeland Security threats
- Demonstrate first responder skills required to prevent and respond to Homeland Security threats

Students must complete each course with a grade of "C" or higher. Students must complete 5 of the 7 courses at City College of San Francisco. All courses must be taken within a three-year period.

The minimum time for completion of this certificate is 4 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Homeland Security

Course . . . . . Units

Required
F SC 145 Introduction to Homeland Security 3.0
ADMJ 57 Introduction to Administration of Justice 3.0
ADMJ 67 Terrorism and Counterterrorism 3.0
F SC 50 Introduction to Fire Science 3.0

Select one of the following courses
F SC 17 Public Safety: Emergency Medical Response 3.0
EMT 100 Emergency Medical Technician 8.0

Choose at least six (6) units from the following courses
ADMJ 66 Forensic Evidence 3.0
ADMJ 85 P.C. 832 Arrest and Control Certification. 3.0
F SC 61A Introduction to Fire Prevention 3.0
F SC 52A Fire Protection Equipment & Systems 3.0
F SC 75C Company Officer 2C: Fire Inspections and Investigations 2.0
F SC 106 Fire Safety Director 1.5

Total: . . . . . 21.0 – 26.0

Announcement of Courses

Administration of Justice

Credit, Degree Applicable Courses:

ADMJ 51. Juvenile Procedures (3)
Lec-52.5
This course examines juvenile procedure within the administration of justice system, analyzing societal responses to juvenile crime through historical records and crime trend data. Facets of juvenile law enforcement as well as prevention, rehabilitation, and detention will be covered, with emphasis on procedural change in justice policy. CSU
C-ID AJ 220
Offered Fall and Spring semesters

ADMJ 52. Concepts of Criminal Law (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Principles of California criminal law, including laws of arrest, search and seizure, application sections of the Constitution of the United States and relevant cases as they apply to and affect contemporary law. An understanding of the California Penal Code and other criminal statutes. UC/CSU
C-ID AJ 120
Offered Fall and Spring semesters

ADMJ 53. Legal Aspects of Evidence (3)
Lec-52.5
A study of the forms which evidence can take in court, and the evolution of procedural safeguards that govern the admissibility of evidence, thereby ensuring due process of law and fair justice for all litigants. CSU
C-ID AJ 124
ADMJ 53=L A 70
Offered Fall and Spring semesters

ADMJ 54. Principles and Procedures of the Justice System (3)
Lec-52.5
Comprehensive overview of the legal procedures and constitutional requirements followed by law enforcement, the courts and corrections in criminal cases. Every step of the criminal justice process from pre-arrest to appeal will be thoroughly reviewed and studied. Required for the ADMJ Major and Certificate of Achievement. CSU
C-ID AJ 122
Offered Fall and Spring semesters

ADMJ 55. Administration of Justice and the LGBTQ+ Community (3)
Lec-52.5, field trips P/NP available
An examination of the relationship and interactions between the American justice system and the LGBTQ+ community. This course meets the training requirements of section 13519.41PC for law enforcement officers and 9-1-1 dispatchers. CSU
Offered Summer semesters

ADMJ 57. Introduction to Administration of Justice (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A critical thinking exploration of historical and contemporary issues in criminal justice. Study and analysis of the core principles and components of the American criminal justice system (police, courts, and corrections), the evolution of criminal justice, criminal behavior

theory, crime categories, policing models, challenges in policing, and career opportunities. UC/CSU
C-ID AJ 110
Offered Fall and Spring semesters

ADMJ 59. Organized Crime (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Practical and theoretical investigation techniques involving organized crime to include the social and cultural characteristics of organized crime groups. Law enforcement responses to organized crime will be explored as a basis for understanding and mitigating organized crime groups. UC/CSU
Offered Fall and Spring semesters

ADMJ 62. Criminal Investigation (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
The organization, techniques, procedures, and ethical issues involved in criminal investigations conducted by sworn personnel. Topics include crime scene searches, interviews and interrogations, evidence, and the role of the investigator in court proceedings. CSU
C-ID AJ 140
Offered Fall and Spring semesters

ADMJ 63. Fingerprints (3)
Lec-52.5, field trips
Theory, practice, and critique of the science of fingerprints. Topics include pattern types, systems of classification, comparison/identification and ACE-V, latent print development, preservation of evidence, fingerprint databases, admissibility, court testimony and exhibits, and relevant case law. CSU
Offered Fall semesters

ADMJ 64. Progressive Policing in the 21st Century (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An examination of the evolution of policing as it relates to the current progressive policing era. Interrelationships and leadership role expectations among police and the public are studied. CSU
C-ID AJ 160
Offered on occasion

ADMJ 65. Criminal Justice, Drugs, Crime and the Law (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Provides a student with a comprehensive explanation of the history of psychoactive drug use; primarily in the United States and peripherally in the world. Students study a menu of psychoactive substances and explore the critical intersection between criminal organizations, crime, drug use, and the law. Students will analyze and evaluate public policy initiatives and laws targeting intervention, prevention strategies, and criminal justice community treatment programs. UC/CSU
Offered Fall semesters

ADMJ 66. Forensic Evidence (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
This course introduces students to forensic evidence and the crime lab. Topics include history and sub-disciplines of forensic science, structure of crime labs, types and characteristics of evidence, methods of laboratory analysis, requirements of courtroom admissibility, and expert testimony. CSU
C-ID AJ 150
Offered Spring and Summer semesters

ADMJ 67. Terrorism and Counterterrorism (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course introduces the issues of terrorism, terrorist tactics, terrorist ideology, and the terrorist threats to public safety as well as methods and techniques of countering terrorism and preparing for and dealing with its impacts. UC/CSU
Offered Spring semesters

ADMJ 68. Criminal Justice Report Writing (3)
Lec-52.5 P/NP available
Prereq: Completion of or concurrent enrollment in: ENGL 26
Develops students' abilities in note taking, interviewing, and information gathering to produce clear, objective, organized, and legally sufficient criminal justice reports. Topics include report writing rules, codes, and formatting. Strong emphasis on writing mechanics. CSU
Offered Fall and Spring semesters

ADMJ 69. Crime Scene Documentation (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ADMJ 68
Fundamental theories of physical evidence practically applied and the legal considerations involved in its recognition, collection, preservation and presentation in court. Topics include securing the scene and documenting evidence using photos, diagrams, and notes; collecting evidence; and maintaining the chain of custody and scene reconstruction. CSU
Offered Fall semesters

ADMJ 70A. Patrol Procedures (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course provides vocational application of the principles taught within the Administration of Justice curriculum. This course is designed to help prepare students for satisfactory completion of the placement requirements for service within the San Francisco City College Campus Police Department and/or other law enforcement agencies. CSU
Not required of Administration of Justice majors employed in law enforcement work.
Offered as needed

ADMJ 71. Student Campus Patrol Work Experience (1-3)
Work-60-180, field trips P/NP only
Prereq: Approval of Administration of Justice and Fire Science Department
Recommended Prep: ADMJ 52 and ADMJ 57 and ADMJ 70A
Repeat: Repeated up to 12.00 units
Field application of principles taught in previous courses in Administration of Justice. Individual experience and training in the Campus Police Department. This course is part of the City College of San Francisco Campus Police. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. Max credits per semester is 3 units. CSU
Offered as needed

ADMJ 72. Police Work Experience (8)
Work-600, field trips P/NP only
Prereq: ADMJ 101 and Approval of Administration of Justice Department
Repeat: Students can repeat once (total 2 enrollments)
Field application of principles taught in previous course in Administration of Justice 101. This course is used in conjunction with other law enforcement training such as the San Francisco Police Department. One unit of credit is earned for each 75 hours of paid work. CSU
Offered year round for SFPD only

ADMJ 80. Community Corrections (3)
Lec-52.5, field trips
Recommended Prep: ADMJ 57
Overview and examination of the development, purpose, goals and role of community based corrections; including it's various components of evidence based practices, probation, parole, diversion, restorative justice, and intermediate sanctions and emerging alternatives to incarceration. Critical policies, issues, and legal trends will be explored along with supervision of special populations including management of juvenile offenders. CSU
Offered Fall semesters

ADMJ 82. Criminal Justice Work Experience (1-3)
Work-60-225 P/NP available
Prereq: ADMJ 57 and Approval of Administration of Justice Department
Recommended Prep: ADMJ 51 or ADMJ 52 or ADMJ 54 or ADMJ 62 or ADMJ 64 or ADMJ 83
Repeat: Students can repeat three times (total 4 enrollments)
Practice working in a local criminal justice agency under the supervision of employees currently working in the field. Development of professional practices; application of principles; exposure to methods and problems. Weekly activities to evaluate and review progress. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU
Offered Fall and Spring semesters

ADMJ 83. Criminal Justice Career Preparation (3)
Lec-52.5, field trips P/NP only
This course will prepare students to take the entry level Q2 Police Officer examination for the San Francisco Police Department and entry level positions in law enforcement agencies. Emphasis will be placed on test taking strategies for written, oral, and physical agility components, preparation, skill development for all test areas, and developing a career plan. CSU
Offered as needed

ADMJ 85. P.C. 832 Arrest and Control Certification (3)
Lec-52.5, Lab-10 P/NP available
This course is mandated by State Commission on Peace Officer Standards and Training (POST) for all persons exercising Limited Peace Officer Powers as well as Institutional, Park Ranger and other Peace Officer positions. This course covers such topics as history of law enforcement, professionalism, ethics, community relations, the criminal justice system, presentation of evidence, criminal law, preliminary investigations, laws of arrest, use of force and search and seizure. CSU
A fee of $83.75 will be collected to pay for state mandated certification testing
Offered as needed

ADMJ 88. Law Enforcement and the Media (.5)
Lec-16 P/NP available
Prereq: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. NOTE: equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.
This course is designed to help police personnel understand the role of the Public Affairs/Public Information Office, the policies regarding news media contacts, and the interface between community policing and the media. CSU
Offered on occasion

ADMJ 89. Continuing Professional Training (1.5)
Lec-26, Lab-8 P/NP available
Prereq: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee. NOTE: equivalent training is not a guarantee that state regulatory or licensing agencies will also grant equivalency.
Repeat: As allowed by Title 5 provisions
This course is designed to provide police personnel with mandated training in legal updates, risk management, community policing, first aid and CPR, and arrest and control techniques. Successful completion of this course meets mandated bi-annual POST requirements for continuing professional training CSU
Students may petition to repeat this course to meet a legally mandated training requirement.
Offered year round for SFPD only

ADMJ 92. Instructor Development (2)
Lec-40 P/NP available
Prereq: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee NOTE: equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.
Repeat: As allowed by Title 5 provisions
This course is designed to train the student in teaching techniques which include: personal introductions, listening skills, mechanics of speech delivery, effective use of educational aids, topic development, adult learning concepts, ethics, participant behaviors, educational presentations, basic course instructional systems, and integrating the workbook into the basic course. CSU
Students may petition to repeat this course to meet a legally mandated training requirement.
Offered on occasion

ADMJ 100. Emergency Vehicle Operation (.5)
Lec-5, Lab-13 P/NP available
Prereq: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee NOTE: equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.
Repeat: As Needed
This course of Advanced Officer training is designed to instruct and reinforce the participant's knowledge in the lawful requirements of

operating an emergency vehicle during code three and pursuit conditions. CSU
Offered on occasion

ADMJ 101. Basic Police Academy (38.5)
Lec-360, Lab-952, field trips
Prereq: California P.O.S.T. (Commission on Peace Officer Standards and Training) reading and writing exam or employment by a P.O.S.T. approved agency; Department of Justice clearance; Medical verification: clearance from a licensed physician to participate in intensive physical activity commensurate with a police academy.
Recommended Prep: PE 29A and BOSS 5500 and (Readiness for college-level English or ESL 188)
Principles, procedures, and techniques of law enforcement; criminal law, patrol and investigative procedures, report writing, use of force tactics, weapons use, community relations, vehicle operations, traffic enforcement, accident investigation, first aid, CPR, academic and physical skills training and assessment required by the State Commission on Peace Officer Standards and Training to meet the minimum standards for employment as a peace officer in California (1280 in-class hours). CSU
Offered year round for SFPD only

ADMJ 109. Booking and Detention (.5)
Lec-9 P/NP only
Prereq: A California Peace Officer Standards and Training Basic Course certificate issued from an accredited regional police academy or equivalent as determined by the division Dean or their appointee NOTE: equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.
A San Francisco Police Academy course to develop knowledge and understanding of guidelines and procedures pursuant to booking and detention of prisoners at police holding facilities. CSU
Students may petition to repeat this course to meet a legally mandated training requirement.
Offered on occasion

Fire Science

Credit, Degree Applicable Courses:

F SC 17. Public Safety: Emergency Medical Response (3)
Lec-52.5
Basic knowledge and skills necessary to provide lifesaving interventions and assist higher level Emergency Medical Services (EMS) personnel at the scene and during transport and perform basic interventions with minimal equipment. Meets national EMS education standards for Emergency Medical Responder (EMR) level training. CSU
All sections will charge a material fee of $5.00.
Offered Fall and Spring semesters

F SC 50. Introduction to Fire Science (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introductory course to fire science that examines fire technology, department organizational structures, Incident Command System, fire protection systems and equipment, and provides an overview of careers in fire investigation, fire prevention, and fire suppression. The class meets the Fire Fighter I and II certification of the National Fire Protection Association's (NFPA?) Standard 1001. CSU
Offered Fall and Spring semesters

F SC 51A. Fire Tactics and Strategy (3)
Lec-52.5, field trips
Prereq: F SC 50
This elective in the Fire Science major is for students pursuing a career in the Fire Service to obtain a better understanding of situational awareness when responding to emergency incidents. This course also prepares those who hope to improve their firefighting skills and prepare for promotion. CSU
F SC 50 Introduction to Fire Science is a pre-requisite for F SC 51A.
Offered on occasion

F SC 52A. Fire Protection Equipment & Systems (3)
Lec-52.5, field trips
A study of automatic sprinkler systems, standpipe systems, fire detection devices and systems, manual fire suppression equipment, water supplies, extinguishing agents, pumps used in fire protection, smoke management systems and special extinguishing systems. CSU
Offered Fall semesters

F SC 53. Building Construction for Fire Protection (3)
Lec-52.5, field trips P/NP available
Prereq: F SC 50
Components of building construction that relate to fire safety; elements of construction and design of structures as key factors when inspecting buildings; preplanning fire operations and operating at fires; development and evolution of building and fire codes studied in relationship to past fires in residential, commercial and industrial occupancies. CSU
Offered Spring semesters

F SC 55. Wildland Fire Control (3)
Lec-52.5, field trips P/NP available
Prereq: F SC 50
The course will cover wildland fire behavior, fireline safety, fire prevention, fire extinguishment methods, strategy and tactics, Incident Command System, communications, use of fire apparatus, aircraft, bulldozers, and handcrews, and analysis of wildland fire incidents. The course is also a pre-requisite for F SC 111 Firefighter Academy. CSU
Offered Fall and Spring semesters

F SC 57. Principles of Fire and Emergency Services: Safety and Survival (3)
Lec-52.5, field trips P/NP available
Prereq: F SC 50
Recommended Prep: F SC 52A or F SC 53 or F SC 55 or F SC 61A or F SC 64
This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for emergency and non-emergency situations. The course curriculum will be guided by the National Fire Protection Association (NFPA) standards, such as National Fire Protection Association 1500, Fire Department Occupational Health and Safety Programs. CSU
Offered Spring semesters

F SC 61A. Introduction to Fire Prevention (3)
Lec-52.5 P/NP available
Prereq: F SC 50
Recommended Prep: F SC 52A or F SC 53 or F SC 64
This course provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire

protection systems, fire investigation, and fire and life-safety education. CSU
Offered Fall semesters

F SC 62. Rescue Practices (3)
Lec-52.5, field trips P/NP available
Technical rescue practices of the fire service-vehicle extrication, confined space, trench rescue, high & low angle rescue, building collapse scenarios, fire ground rescue operations, and aquatic response emergencies. Examines current tools and technologies, role of fire service heavy rescue, operational issues confronting basic level rescue providers. CSU
Offered Fall and Spring semesters

F SC 63. Vehicle Extrication (.5)
Lec-9.5, Lab-14.5, field trips P/NP only
Prereq: EMT 14 or F SC 17; Completion of or concurrent enrollment in: F SC 111 or other Firefighter One training (certification not required)
This course provides the knowledge and skills to prepare a Firefighter to extricate victim(s) from vehicles in a safe and effective manner in accordance with Authority Having Jurisdiction (AHJ) policies and procedures. CSU
Offered on occasion

F SC 64. Fire Behavior and Combustion (3)
Lec-52.5
Theory and fundamentals of how and why fires start, spread and are controlled. An in depth study of fire chemistry and physics, fire characteristic of materials, extinguishing agents and fire control techniques. CSU
Offered Fall semesters

F SC 65. Hazardous Materials First Responder Operations (2)
Lec-32, Lab-9, field trips P/NP available
Coreq: F SC 111
Recommended Prep: Readiness for college-level English or ESL 188
This course is designed to accomplish an understanding of the operational level component associated with hazardous materials. Fulfills the requirements by the National Fire Protection Association (NFPA) 472 and exceeds the requirements of Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120 standard for competent response to Hazardous Materials / Weapons of Mass Destruction incidents. CSU
Offered concurrent with Fire Academy

F SC 75A. Company Officer 2A: Human Relations Management (2)
Lec-35 P/NP available
Recommended Prep: F SC 50
How company officers in fire departments use human resources to accomplish assignments, to evaluate members on performance, to supervise personnel, and integrate health and safety plans, policies, and procedures into daily activities, and during emergency incidents. CSU
Partial certificate course requirement for new Company Officer, which replaces the former requirements for Fire Officer that expired 12/31/2016.
Offered on occasion

F SC 75B. Company Officer 2B: General Administrative Functions (1)
Lec-20, field trips P/NP available
Recommended Prep: F SC 50
General administration functions along with implementation of department polices and procedures. Addresses projecting the fire department's role, image, and mission to the public. CSU
Offered on occasion

F SC 75C. Company Officer 2C: Fire Inspections and Investigations (2)
Lec-40, field trips P/NP available
Recommended Prep: F SC 50
This course provides information on conducting inspections, identifying hazards and addressing violations consistent with fire service standards. The course also provides information for performing a fire investigation in order to determine the preliminary cause of the fire as well as procedures to follow for securing the incident scene and preserving evidence. CSU
Offered on occasion

F SC 75D. Company Officer 2D: All-Risk Command Operations (2)
Lec-35, field trips P/NP available
Recommended Prep: F SC 50
Approaching an emergency and observing scene, developing a strategy and assigning tactical resources to mitigate an emergency for single-family dwelling fires, multi-family dwelling fires, commercial fires, high rise fires, multi-casualty medical incidents and technical rescue incidents. CSU
Offered on occasion

F SC 75E. Company Officer 2E: Wildland Incident Operations (2)
Lec-35, field trips P/NP available
Recommended Prep: F SC 50
Reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources, completing all operations to suppress a Wildland fire, creating an incident action plan, and completing incident records and reports. CSU
Offered on occasion

F SC 75F. Instructor I - State Fire Trng (2)
Lec-35 P/NP available
Provides the skills and knowledge needed for entry level professional instructor to perform his or her duties, safely, effectively, and competently. Follows National Fire Protection Association 1041 Standard for Fire Service Instructor. Also, meets partial requirements for Instructor 1 and Company Officer, California State Fire Marshal Office, State Fire Training Meets minimum requirement for San Francisco Fire Department for Training Instructor at the Division of Training (DOT). CSU
Partial certificate course requirement for new Company Officer or certification for Instructor 1 to teach State Fire Training Level 1 courses. Also, meets requirement to teach at the San Francisco Fire Department Training Academy.
Offered on occasion

F SC 106. Fire Safety Director (1.5)
Lec-27 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Provides basic knowledge and skills in the preparation of facility emergency plans; fire prevention and protection; life safety systems; evacuation and relocation procedures; earthquake preparedness; management of various emergencies and coordinating with emergency responders. This course is for those falling under jurisdictions of the San Francisco Fire Department, California State Fire Marshal's Office, and Fire Protection Division of California Health and Safety Code. CSU
F SC 106=JRNY 106
Offered Fall and Spring semesters

F SC 107A. Fire Training Work Experience (.5)
Work-30 P/NP available
Prereq: F SC 17 or EMT 100; F SC 50; F SC 55; F SC 62; PE 29A; Approval of Administration of Justice/Fire Science Department
Off-campus work experience with the San Francisco or South San Francisco Fire department. Student job performance will be evaluated by an on-site supervisor for compliance to the National Fire Protection Association Standard 1001 physical skills. Meets requirements by California State Fire Training for Firefighter 1. One unit of credit is earned for each 60 hours of unpaid, or 75 hours of paid work. CSU
Formerly F SC 105A
Offered Fall and Spring semesters

F SC 107B. Fire Training Work Experience (2.5)
Work-150, field trips P/NP available
Prereq: F SC 107A; F SC 111 or a certificate of completion from a California regional Fire Academy; EMT 100 or state EMT certification; Approval of the Administration of Justice/Fire Science Department
Repeat: Repeated up to 7.50 Units
Off-campus work experience with the San Francisco Fire department as an unpaid intern. Student job performance will be evaluated by an on-site supervisor and the CCSF instructor. Meets requirements by California State Fire Training for Firefighter 1. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
Formerly F SC 105C
Offered Fall and Spring semesters

F SC 108. Fire Service Work Experience (8)
Work-60-600 P/NP available
Prereq: F SC 110
Repeat: Repeated up to 16.0 units
Field application of principles taught in Basic Fire Academy. This course is used with other fire service agency training such as in the San Francisco Fire Department. One unit of credit is earned for each 60 hours of unpaid work or 75 hours of paid work. CSU
Offered Fall and Spring semesters-per SFFD schedule

F SC 110. Basic Fire Academy (24.5)
Lec-257, Lab-535, field trips
Prereq: EMT 100; AHA BLS Healthcare Provider or Red Cross CPR for Professional Rescuer; Pass the Candidate Physical Agility Test (CPAT); Live Scan; Possession of a valid California Driver's License
Basic Fire Academy is for entry level Firefighter positions with San Francisco Fire Department. Training meets the standards of the National Fire Protection Association and California State Fire Marshal Office of State Fire Training, and the Firefighter (2019) curriculum. Emphasis is on Firefighter training, Wildland Firefighter training, and Hazardous Materials /Weapons of Mass Destruction training. CSU
Course is scheduled at San Francisco Fire Department training facilities, and is designed for the San Francisco Fire Department according to pre-requisites outlined in this course
Offered Fall and Spring semesters-per SFFD schedule

F SC 111. Firefighter One Academy (13)
Lec-157.5, Lab-215.25, field trips P/NP available
Prereq: F SC 17 or EMT 100; F SC 50; F SC 55; F SC 62; PE 29A
Coreq: F SC 107A; F SC 65
Recommended Prep: F SC 52A or F SC 53 or F SC 57 or F SC 61A or F SC 64
Students trained to latest State Fire Training Firefighter One standards, National Fire Protection Association standards for Firefighter One. F SC 111 focuses on structural firefighting, wildland firefighting, and hazardous materials and weapons of mass destruction. CSU
Additional student fees required for State Fire Training (SFT) written and skills testing, SFT Fire Service Training and Education Program (FSTEP) training courses that are part of the Fire Academy, and safety equipment and uniforms required for Fire Academy participation
Offered Fall and Spring semesters

F SC 115. Incident Command System 200 (.5)
Lec-6, Lab-10 P/NP available
Prereq: Completion of or concurrent enrollment in: FEMA ICS 100-b, available at the FEMA.gov website
This course is designed to enable personnel to operate efficiently during an incident or event within the Incident Command System (ICS). This course focuses on the management of single resources in initial and developing incidents. CSU
Offered on occasion

F SC 145. Introduction to Homeland Security (3)
Lec-52.5
This course introduces students to the fundamentals of Homeland Security. It examines the history and events leading up to the creation of the Department of Homeland Security. This class will examine the interoperation between local, state, federal and non-governmental organizations regarding mitigation, preparation, prevention, response and recovery in an all-hazards environment. CSU
F SC 145 = ADMJ 145
Offered Fall semesters

F SC 150. Fire Service Career Preparation (2)
Lec-35 P/NP available
Prereq: F SC 50
Fire Science 150 includes the principles, procedures, and best practices for obtaining a job in the fire service. Students develop strategies for success, career track planning, setting career goals, resume writing, test taking, and interview skills will be emphasized and put into practice during this course. CSU
Offered on occasion

African American Studies

Office: Science 222
Phone Number: (415) 239-3510
Web Site: *www.ccsf.edu/african*

Announcement of Curricula

Social Justice Studies: African American Studies Major (AA-T)

The African American Studies major is an interdisciplinary program that studies the history, arts and humanities, economy, culture, music, media, and politics of Black and African Americans in the United States. Using an interdisciplinary approach, African American Studies students actively engage in examining the realities of Black and African American experience in the United States. The Associate of Arts in Social Justice: African American Studies for Transfer Degree (AA-T SJS: African American Studies) prepares students for transfer with priority admissions and junior class status to a CSU campus program or major in Africana Studies, Race & Resistance Studies, or similar major for completion of a baccalaureate degree. Future careers include teaching, social work, law, community organizing, public health, non-profit

program management, diversity positions, as well as higher education or graduate school.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the diverse historical experiences of Black and African Americans in the United States.
- Analyze social, political, cultural, and economic issues and conditions related to diversity of Black and African American communities in the United States.
- Analyze the intersections of race, gender, class, ethnicity, and sexuality within the Black and African American experience.
- Apply appropriate research methodologies in examining the Black/African American Experience.

Students who wish to earn the AA-T SJS: African American Studies degree must complete 60 CSU-transferable units with at least a 2.0 grade point average. This must include units required for full completion of the IGETC or CSU GE Curriculum and the units for the major as specified below. Each course in the major must be completed with a "C" (or "P") or better. Courses that meet the major requirements may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters; completion time will vary depending on student preparation and number of units completed per semester.

Courses Required for the AA-T in Social Justice Studies: African American Studies

Course	Units
Required Courses	
AFAM 30 African American Consciousness	3.0
IDST 37 Introduction to Ethnic Studies	3.0
and one of the following courses	
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies	3.0
or WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified	3.0
Select three courses from at least two of the following discipline areas:	
Area 1: History and Government	
HIST 41A African American History From Ancestral West Africa to the Civil War	3.0
HIST 41B 20th Century African American History from the Reconstruction to 21st Century	3.0
Area 2: Arts and Humanities	
AFAM 40 The Black Experience in California	3.0
AFAM 55 From Funk to Hip Hop	3.0
HUM 48 African-American Music, Art and Literature	3.0
IDST 36 Poetry for the People	3.0
Area 3: Social Science	
AFAM 42 The Origins and History of Race Theory and Modern Racism	3.0
AFAM 60 African American Women in the U.S.	3.0
ECON 30 Economics of the African American Community	3.0
LGBT 50 LGBT Communities of Color in the U.S.	3.0
PSYC 23 Psychology of Race and Ethnic Relations	3.0
Area 4: Quantitative Reasoning and Research Methods	
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
Total:	**18.0 – 20.0**

Black/African American Studies Major (AA)

The African American Studies major is an interdisciplinary program that studies the history, arts and humanities, economy, culture, music, media, and politics of Black and African Americans in the United States. Using an interdisciplinary approach, African American Studies students actively engage in examining the realities of Black and African American experience in the United States. The degree in African American Studies provides a basis for students pursuing further education toward careers in non-profit program management, public sector, private sector, international development, community organizing, policy analysis, education, and journalism, among others.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the diverse historical experiences of Black and African Americans in the United States.
- Analyze social, political, cultural, and economic issues and conditions related to the diversity of Black and African American communities in the United States.
- Analyze the intersections of race, gender, class, ethnicity, and sexuality within the Black and African American experience.
- Apply appropriate research methodologies in examining the Black/African American experience.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is 4 semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major Black/African American Studies

Course	Units
Required	
AFAM 30 African American Consciousness	3.0
AFAM 40 The Black Experience in California	3.0
AFAM 42 The Origins and History of Race Theory and Modern Racism	3.0
IDST 37 Introduction to Ethnic Studies	3.0
Choose one of the following gender courses	
AFAM 60 African American Women in the U.S.	3.0
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies	3.0
LGBT 50 LGBT Communities of Color in the U.S.	3.0
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified	3.0
Choose one of the following history courses	
HIST 41A African American History From Ancestral West Africa to the Civil War	3.0
HIST 41B 20th Century African American History from the Reconstruction to 21st Century	3.0
Choose one of the following elective courses	
Choose a course listed above not previously selected or one of the following elective courses	3.0
or AFAM 55 From Funk to Hip Hop	3.0
ART 107 African-American Art History	3.0
ECON 30 Economics of the African American Community	3.0

MUS 23 History of Jazz: Musical Traditions of the African-American 3.0
PSYC 23 Psychology of Race and Ethnic Relations 3.0
IDST 36 Poetry for the People 3.0
Total: 21.0

Black/African American Studies Certificate

The Certificate of Achievement in African American Studies provides an introduction to the Black/African American experience in the United States. The certificate provides students with the theoretical and methodological tools to understand and analyze the complex experience of Black/African Americans in the United States. It is designed for students who wish to pursue a specialization in Africana/African American/Black studies and for professionals in the public, private, and nonprofit sector and/or who work with or wish to learn about Black/African American communities and experiences in the United States to further their career goals.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the diverse historical experiences of Black and African Americans in the United States.
- Analyze social, political, cultural, and economic issues and conditions related to the diversity of Black and African American communities in the United States.
- Explain the intersections of race, class, gender, and sexuality affecting Black/African American communities and experiences in the United States.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Black/African American Studies

Course . . . . . Units
Required
AFAM 30 African American Consciousness 3.0
AFAM 40 The Black Experience in California 3.0
AFAM 42 The Origins and History of Race Theory and Modern Racism 3.0

Choose 3 of the following courses
AFAM 55 From Funk to Hip Hop 3.0
AFAM 60 African American Women in the U.S. 3.0
ART 107 African-American Art History 3.0
ECON 30 Economics of the African American Community 3.0
HIST 41A African American History From Ancestral West Africa to the Civil War 3.0
HIST 41B 20th Century African American History from the Reconstruction to 21st Century 3.0
HUM 48 African-American Music, Art and Literature 3.0
IDST 36 Poetry for the People 3.0
IDST 37 Introduction to Ethnic Studies 3.0
LGBT 50 LGBT Communities of Color in the U.S. 3.0
PSYC 23 Psychology of Race and Ethnic Relations 3.0
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified 3.0
Total: 18.0

Announcement of Courses

Credit, Degree Applicable Courses:

AFAM 30. African American Consciousness (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
AFAM 30 is an Ethnic Studies course that focuses on W. E. B. Dubois' term "The Souls of Black Folk." Using frameworks of race and ethnicity, students will gain a critical understanding of the complex expressions of what African American people think, feel, and imagine in their conscious existence, historically and geographically. UC/CSU

AFAM 40. The Black Experience in California (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Review and comparative analysis of African heritage people and African Americans in California. The emphasis is on the African/African American heritage in the establishment, development, and evolution of California from the 1500s through the Gold Rush Era to the present, using Ethnic Studies methodologies. UC/CSU
Offered Spring semesters

AFAM 42. The Origins and History of Race Theory and Modern Racism (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Utilizes ethnic studies methodologies and critical race theory to explore the history of race theory and racism in the United States from early antecedents in antiquity through the emergence of modern race theory and racism in the 18th and 19th centuries to the present. Also includes the ways that race theory has shaped intellectual discourse and popular consciousness. UC/CSU

AFAM 55. From Funk to Hip Hop (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Explores African American culture as reflected through theories of race and ethnicity and the aesthetics and politics of Black popular music from the Black Awakening of the 1960s to Hip-hop. Provides an understanding of how Black music forms have impacted and represented African American social consciousness, struggles, resistance, and racial justice. UC/CSU

AFAM 60. African American Women in the U.S. (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Examines and analyzes African American women in the U.S. with particular emphasis on the struggle for rights as people of African descent. Frameworks of race and ethnicity are used to gain a critical understanding of the contributions, strategies for success, and political activism of African American women from 1619 to the present. UC/CSU
Offered Fall semesters

ART 107. African-American Art History (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
Heritage of West African civilizations prior to and during the slave trade, and of African-Americans from colonial to contemporary times.

All art will be discussed from both a critical and historical perspective with regard to formal visual elements of style and the societies, values and ideas that gave birth to African-American art. UC/CSU
Offered Spring semesters

DANC 129A. Beginning Jazz Dance (1)
Lab-35 P/NP available
Beginning jazz dance with emphasis on basic technique, terminology, dance combinations and basic rhythms of jazz dance. UC/CSU
Formerly DANC 130A

DANC 129B. Advanced Beginning Jazz Dance (1)
Lab-35 P/NP available
Prereq: DANC 129A
Advanced beginning jazz dance builds upon skills learned in beginning jazz dance technique with emphasis on refining technique, increasing vocabulary, movement through space, and combinations. UC/CSU

DANC 129C. Intermediate Jazz Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 129B
Intermediate Jazz builds upon skills learned in Advanced Beginning Jazz Dance with emphasis on refining technique, musicality, increasing vocabulary and movement through space and combinations. UC/CSU

DANC 129D. Advanced Jazz Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 129C
Advanced Jazz Dance builds upon skills learned in Intermediate Jazz Dance technique with emphasis on refining technique, rhythmic structure, increasing vocabulary, movement through space, improvisation, and combination. UC/CSU

DANC 133A. Beginning African-Haitian Dance (1)
Lab-35 P/NP available
Beginning African-Haitian dance will be examined through technical demonstration and practice. Emphasis will be placed on traditional movements, isolations, movement progressions, dance patterns, and musicality. Dance pioneers and their contribution to African-Haitian dance will be discussed. UC/CSU

DANC 133B. Advanced Beginning African Haitian (1)
Lab-35 P/NP available
Prereq: DANC 133A or demonstration of exit skills
Advanced beginning African Haitian Dance is a continuation of beginning African Haitian with an emphasis on building vocabulary on traditional movements and integrating isolations and movement progressions in connection to dance patterns and correct musicality. UC/CSU

DANC 133C. Intermediate African-Haitian Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 133B or demonstration of exit skills
Intermediate African Haitian dance builds on advanced beginning level skills. Through demonstration, practice, correction, and review, emphasis is placed on expansion into more intricate traditional movements, Dunham technique, dance patterns, styles, and musicality. Historical and cultural elements will be explored through lectures, films, research, and discussions. Creative expression will be encouraged through group choreographic activities and individual projects. UC/CSU

DANC 133D. Advanced African-Haitian Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 133C or demonstration of exit skills
Advanced African Haitian Dance is a continuation of intermediate African Haitian with an emphasis on building vocabulary on traditional movements and integrating isolations and movement progressions in connection to dance patterns and correct musicality. UC/CSU
Formerly DANC 132C

DANC 138A. Beginning Hip Hop Dance (1)
Lab-35 P/NP available
Beginning Hip Hop dance with emphasis on technique, vocabulary, dance combinations and basic rhythms of hip hop dance. UC/CSU
Formerly DANC 137A

DANC 138B. Advanced Beginning Hip Hop Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 138A or demonstration of exit skills
Beginning Hip Hop dance with emphasis on technique, vocabulary, dance combinations and basic rhythms of hip hop dance. UC/CSU

DANC 138C. Intermediate Hip Hop Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 138B or demonstration of exit skills
Intermediate Hip Hop dance builds upon skills learned in Advance Beginning Hip Hop with emphasis on increasing vocabulary, styles, and length of dance combinations with more complex rhythms. Using hip hop dance as a vehicle, students will be able to explore their own movement expression and choreography. UC/CSU
Formerly DANC 137B

DANC 138D. Advanced Hip Hop Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 138C or demonstration of exit skills
Advanced Hip Hop dance builds upon skills learned in Intermediate Hip Hop with emphasis on increasing vocabulary, styles, and length of dance combinations with more complex rhythms. Using hip hop dance as a vehicle, students will be able to explore their own movement expression and choreography in both group and solo settings. UC/CSU

ECON 30. Economics of the African American Community (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the principles of Black political economy. Topics will include: Black employment, employment discrimination, Black capitalism, the Black underclass, homelessness, and community economic development. The empirical link between race, class and income distribution will also be examined. UC/CSU
Offered on occasion

HIST 41A. African American History From Ancestral West Africa to the Civil War (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college level English or ESL 188
The political, social, artistic, and cultural history of people of African-American descent in the United States from their African beginnings

to the Civil War. Covering the development of African-American culture and heritage from ancestral West Africa. UC/CSU

HIST 41B. 20th Century African American History from the Reconstruction to 21st Century (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college level English or ESL 188
The political, social, artistic, and cultural history of the African American people in the United States from the Civil War to the 21st Century. HIST 41B covers from the Reconstruction to the present. UC/CSU

HUM 48. African-American Music, Art and Literature (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A study of significant works in African-American literature, philosophy, art, and music, including their roots in African cultures. UC/CSU
Offered on occasion

IDST 14. American Cultures in Literature and Film (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary survey of literary and cinematic works of fiction, drama, non-fiction and poetry that investigates unity in diversity in the shifting trajectories of American identities and interrelationships. Groups featured to assess their interactive contributions to American cultures include Native-, European-, African-, Latin-, Asian-Americans, and Pacific Islanders. UC/CSU
Offered on occasion

IDST 29. Islam: Identity & Culture (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary survey of Muslim identity and the origins, principles, and practices of Islam, comparing and contrasting them with those of other major religions. Focus on the historical development and current practices of Islam and its impact on philosophy, art, music, architecture, gender, media, popular culture, and politics. UC/CSU
Offered on occasion

IDST 37. Introduction to Ethnic Studies (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to concepts, theories, methodologies and social policy related to the history, culture, concerns, and conditions of the field of Ethnic Studies. Employs Critical Race Theory, Intersectionality, and Indigenous Methodologies to analyze and articulate cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, and patterns of interaction between various racial and ethnic groups. UC/CSU
C-ID SOCI 150
Crosslisted with ETHN 37

IDST 80A. Diversity and Social Justice: Racism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of race-based oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about racism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80C. Diversity and Social Justice: Sexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness raising analysis and evaluation of sexism on individual, institutional, and cultural levels in the United States. Expanding one's knowledge about sexism, increasing personal awareness of one's own sexism and assumptions, and the application of this knowledge and awareness for individual and social change are emphasized. CSU
Offered Fall semesters

IDST 80D. Diversity and Social Justice: Heterosexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of homophobia and heterosexism (discrimination based on perceived or real sexual orientation and identity) oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about heterosexism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80E. Diversity and Social Justice: Ableism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of ableism (disability-based oppression) on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about ableism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80F. Diversity and Social Justice: Class and Classism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of class oppression and classism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about class, class oppression and classism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

IDST 80G. Diversity and Social Justice: Transphobia (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of transphobia and gender oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about transphobia and gender diversity, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 81B. Diversity and Social Justice: Anti-Semitism/Anti-Arabism (1)
Lec-18 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of anti-Semitism and anti-Arabism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about anti-Semitism and anti-Arabism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

LGBT 50. LGBT Communities of Color in the U.S. (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the histories, power dynamics, intersectionalities, cultures, communities and resistance of LGBTQ+ Black, Latinx, Chicanx, Indigenous and API people in the U.S. UC/CSU
Formerly Lesbian/Gay/Bisexual/Transgender/Communities of Color in the U.S.
Offered Spring semesters

MUS 8A. Beginning Jazz & Other Popular Piano (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MUS 9A or demonstration of exit skills
Beginning study and exploration of jazz piano technique in myriad forms through the application of jazz theory, blues, Afro-Cuban, Brazilian and other popular styles. UC/CSU

MUS 8B. Intermediate Jazz & Other Popular Piano (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 8A
An intermediate study of basic jazz, blues, Afro-Cuban, Brazilian and other popular piano techniques. UC/CSU

MUS 21. Traditional African Music (3)
Lec-52.5, field trips P/NP available
An introduction to the many styles of African music with emphasis on the function of traditional music and how it is organized as an integral part of everyday activity. UC/CSU

MUS 23. History of Jazz: Musical Traditions of the African-American (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A course composed of lectures, discussions, assigned reading and listening designed to explore African-American musical heritage and its relationship to other folk expressions and to Western European Art Music. This heritage includes spirituals, work songs, blues, jazz, gospel and a broad range of popular music. UC/CSU

MUS 26. Music in American Culture (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A survey of the music of America's diverse populations such as Native American, Anglo-American, African American, Cajun, Creole, Hawaiian and other styles and genres such as country, Tex-Mex, Klezmer and polka. UC/CSU

MUS 41. African Drumming Ensemble (3)
Lec-52.5, field trips P/NP available
Repeat: Students can repeat three times (total 4 enrollments)
In African Drumming Ensemble students play traditional African music; the class is an in-depth examination of African drumming and performance of African music integral to everyday festivities and life in African society UC/CSU
The content of this course varies. Students may re-enroll without repeating subject matter.

PSYC 23. Psychology of Race and Ethnic Relations (3)
Lec-52.5 P/NP available
An exploration of the experiences, theories, and research concerning issues of race and ethnicity as they relate to individual and group behavior, emotion, and thinking, including attitudes, identity development, racism, privilege, coping strategies, and intersectional experiences. Psychohistorical analysis of the experiences of African Americans, Asian Americans, Latino(a) Americans, and Native Americans. UC/CSU

Aircraft Maintenance Technology

Office: Airport
Phone Number: (650) 821-0219
Web Site: *www.ccsf.edu/aeronaut*

Announcement of Curricula

General Information

City College of San Francisco offers two years of specialized training for students desiring preparation for employment as aircraft technicians maintaining powerplants, airframes, or avionics equipment.

Employment. Students who successfully complete the degree or certificate curricula are qualified for employment in various positions, including those in the following fields:

Powerplant Maintenance—Entry positions as accessory mechanic, general powerplant mechanic, maintenance-crew member, ramp service-crew member, and hangar-crew member. Positions to which graduates may advance after obtaining experience and further training include those of aircraft powerplant technician (licensed), supervisor, and inspector.

Airframe Maintenance—Entry positions as general aircraft-overhaul mechanic, accessory mechanic, electric-shop mechanic, general cabin-equipment mechanic, maintenance-crew member, ramp-service crew member, and hangar-crew member. Positions to which graduates may advance after obtaining experience and further training include those of airframe technician (licensed), supervisor and inspector.

Avionics Maintenance—Entry positions as avionics technician, radio/electric line mechanic. Positions to which graduates may advance after obtaining experience and further training include those of lead systems specialist, supervisor and inspector.

Federal Certification. The Aircraft Maintenance Technology programs are certified by the Federal Aviation Administration. For more information about this agency, see the "Overview of the College" section of this Catalog.

The Federal Aviation Administration permits those who hold the Associate of Science (or the Certificate of Achievement) in Aircraft Powerplant Maintenance Technology to take the examination for the F.A.A. Powerplant Certificate. The Federal Aviation Administration permits those who hold the Associate of Science (or Certificate of

Achievement) in Airframe Maintenance Technology to take the examination for the F.A.A. Airframe Certificate.

Degree Curriculum

The Degree Curriculum in Aircraft Maintenance Technology offers three majors: Aircraft Powerplant Maintenance Technology, Airframe-Maintenance Technology, and Avionics-Maintenance Technology. Students who complete all courses required for the major and satisfy general College graduation requirements will receive the Associate in Science Degree.

To enroll:

1. File with the Office of Admissions and Records an application for admission to City College.
2. Complete the assessment process to get an English/ESL and Math course placement, Orientation, Counseling

Communication and Computation Skills. Federal Aviation Administration (F.A.A.) regulations require that a student be able to read, speak, and understand English and perform basic computation. It is highly recommended that applicants, prior to enrolling in the Aircraft Maintenance Technology program,

1. complete ESL188 or ENGL 88 or 88B with a C or higher, or place in ENGL 88; and
2. complete MATH 30, or place in MATH 40.

Previous Aircraft Job-Related or Educational Experience. In limited cases, and with Aircraft Maintenance Technology Department approval, previous aircraft job-related experience and training may substitute for certain course requirements. Previous job-related experience and training must be documented according to F.A.A. regulations. This experience will not guarantee a waiver to any requirements in the Department, but will usually provide the student with a greater chance of success in both training and placement in the industry.

Special Regulations and Policies. The Aircraft Maintenance Technology Program is regulated by the Federal Aviation Administration. As a result, all students will be issued a "Department of Aircraft Maintenance Technology Student Handbook." Contained in the handbook are special regulations regarding attendance, performance levels, conditions of academic probation and dismissal from the program. Also included are notices concerning personal safety equipment, hand tools and supplies which the student will be responsible to purchase.

Transfer to San Jose State University. Although students in the Aircraft Maintenance Program generally enter industry upon graduation, for those students who may prefer to earn the Bachelor's degree, San Jose State University offers graduates this opportunity. Those students who intend to transfer should consult a counselor at City College of San Francisco.

Aircraft Powerplant Maintenance Technology Major (AS)

This major is for potential AMT technicians that are interested in receiving training in Aircraft Powerplant Maintenance. The Aircraft Powerplant Maintenance training received at the CCSF Aeronautics Department is certified by the FAA, CFR Part 147. Some of the subject areas that are covered in the Powerplant Maintenance Training include topics such as reciprocating engine overhaul, turbine theory and operation, systems such as fuel systems, lubrication systems, ignition and starting systems, troubleshooting and inspections as well as testing engines for proper operation. Students will learn the proper nomenclature of aircraft powerplant parts and components. Upon successfully completing and passing (with at least a 70% score) all required subject areas associated with the Powerplant Maintenance training as well as completing and passing the required general education courses, the student will then qualify to receive the Aircraft Powerplant Maintenance Technology major and qualify to take their Federal Aviation Administration exams. Once the graduating student passes all of the required FAA exams, they are qualified to work in the aviation industry as a FAA Certified Powerplant Technician.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe and analyze the various aircraft parts and components, and troubleshoot the related systems.
- Use shop safety practices related to aircraft maintenance.
- Perform inspections that will determine the airworthiness of aircraft systems and components.
- Demonstrate proper aircraft maintenance procedures as per specified authorized references.
- Apply the techniques utilized in overhauling an aircraft reciprocating engine.

Assuming students start this AA or AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Aircraft Powerplant Maintenance Technology

Course	Units
Required Courses:	
AIRC 101 Introduction to Aircraft Maintenance	8.0
AIRC 102 Basic Electricity and Electrical Circuits	8.0
AIRC 103 Powerplant Theory & Maintenance	8.0
AIRC 104 Propulsion Powerplant Systems	8.0
AIRC 105 Powerplant Systems and Components	8.0
Total:	**40.0**

Airframe Maintenance Technology Major (AS)

This major is for potential AMT technicians that are interested in receiving training in Airframe Maintenance. The Airframe Maintenance training received at the CCSF Aeronautics Department is certified by the FAA, CFR Part 147. Some of the subject areas that are covered in the Airframe Maintenance training include topics such as assembly and rigging, hydraulic and pneumatic power systems, cabin atmosphere control systems, communication and navigation systems, aircraft fuel systems, position and warning systems as well as fire protection systems. Students will learn the proper nomenclature of airframe parts and components. Upon successfully completing and passing (with at least a 70% score) all required subject areas (associated with the Airframe Maintenance Training) as well as passing the required General Education courses, the student will then qualify to receive the Airframe Maintenance Technology major and qualify to take their Federal Aviation Administration exams. Once the graduating student passes all of the required FAA exams, they are qualified to work in the aviation industry as a FAA Certified Airframe Technician.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and differentiate the various airframe parts and components, and troubleshoot the related systems.
- Perform airframe conformity and airworthiness inspections of airframe systems and components.
- Identify and demonstrate proper aircraft maintenance procedures as per specified authorized references.

- Inspect, check and service landing gear position indicating and warning system.
- Inspect and repair sheet metal structures.

Assuming students start this AA or AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Airframe Maintenance Technology

Course	Units
Required Courses:	
AIRC 101 Introduction to Aircraft Maintenance	8.0
AIRC 102 Basic Electricity and Electrical Circuits	8.0
AIRC 106 Aircraft Structural Repair	8.0
AIRC 107 Landing Gear, Hydraulics, and Pneumatics	8.0
AIRC 108 Airframe Systems & Components	8.0
Total:	**40.0**

Aircraft Powerplant Maintenance Technology Certificate

The Aircraft Powerplant Maintenance Technology Certificate prepares students for entry positions in aircraft powerplant maintenance including accessory mechanic, general powerplant mechanic, maintenance crew member, ramp service crew member and hangar crew member. The Aircraft Powerplant Maintenance Training received at the CCSF Aeronautics Department is certified by the FAA, CFR Part 147. Some of the subject areas that are covered in the Powerplant Maintenance Training include topics such as Reciprocating Engine Overhaul, Turbine Theory and Operation, Systems such as Fuel Systems, Lubrication Systems, Ignition and Starting Systems, Troubleshooting and inspections as well as testing engines for proper operation. Students will learn the proper nomenclature of aircraft powerplant parts and components. Students may obtain the Certificate of Achievement in Aircraft Powerplant Maintenance Technology by successfully completing and passing (with at least a 70% score) all required subject areas associated with the Powerplant Maintenance training, the student will then qualify to receive the Aircraft Powerplant Maintenance Technology Certificate of Achievement and qualify to take their Federal Aviation Administration exams. Once the graduating student passes all the required FAA exams, they are qualified to work in the Aviation Industry as a FAA Certified Powerplant Technician.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe and analyze the various aircraft parts, components, and troubleshoot the related systems.
- Use shop safety practices related to aircraft maintenance.
- Perform inspections that will determine the airworthiness of aircraft systems and components.
- Demonstrate proper aircraft maintenance procedures as per specified authorized references.
- Apply the techniques utilized in overhauling an aircraft reciprocating engine.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Aircraft Powerplant Maintenance Technology

Course	Units
Required courses:	
AIRC 101 Introduction to Aircraft Maintenance	8.0
AIRC 102 Basic Electricity and Electrical Circuits	8.0
AIRC 103 Powerplant Theory & Maintenance	8.0
AIRC 104 Propulsion Powerplant Systems	8.0
AIRC 105 Powerplant Systems and Components	8.0
Total:	**40.0**

Airframe-Maintenance Technology Certificate

The Airframe Maintenance Technology Certificate prepares students for entry positions in airframe maintenance including general aircraft overhaul mechanic, accessory mechanic, electric shop mechanic, general cabin equipment mechanic, maintenance crew member, ramp service crew member and hangar crew member. The Airframe Maintenance Training received at the CCSF Aeronautics Department is certified by the FAA, CFR Part 147. Some of the subject areas that are covered in the Airframe Maintenance Training include topics such as Assembly and Rigging, Hydraulic and Pneumatic Power Systems, Cabin Atmosphere Control Systems, Communication and Navigation Systems, Aircraft Fuel Systems, Position and Warning Systems as well as Fire Protection Systems. Students will learn the proper nomenclature of aircraft airframe parts and components. Students may obtain the Certificate of Achievement in Airframe Maintenance Technology by successfully completing and passing (with at least a 70% score) all required subject areas associated with the Airframe Maintenance training, the student will then qualify to receive the Airframe Maintenance Technology Certificate of Achievement and qualify to take their Federal Aviation Administration exams. Once the graduating student passes all the required FAA exams, they are qualified to work in the Aviation Industry as a FAA Certified Airframe Technician.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and differentiate the various airframe parts, components, and troubleshoot the related systems.
- Perform airframe conformity and airworthiness inspections of airframe systems and components.
- Identify and demonstrate proper aircraft maintenance procedures as per specified authorized references.
- Inspect, check and service landing gear position indicating and warning systems.
- Inspect and repair sheet metal structures.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Airframe-Maintenance Technology

Course	Units
Required courses:	
AIRC 101 Introduction to Aircraft Maintenance	8.0
AIRC 102 Basic Electricity and Electrical Circuits	8.0
AIRC 106 Aircraft Structural Repair	8.0
AIRC 107 Landing Gear, Hydraulics, and Pneumatics	8.0
AIRC 108 Airframe Systems & Components	8.0
Total:	**40.0**

Announcement of Courses

Credit, Degree Applicable Courses:

AIRC 101. Introduction to Aircraft Maintenance (8)
Lec-87.5, Lab-175, field trips
Introduction to the General Curriculum of the aircraft maintenance technician program. Foundational course that teaches many of the basic skills required to be an aircraft maintenance technician. CSU

AIRC 102. Basic Electricity and Electrical Circuits (8)
Lec-87.5, Lab-175, field trips
Recommended Prep: AIRC 101
Principles of electricity that prepares the student to maintain, repair and overhaul basic aircraft electrical systems and components. Foundational course for aircraft maintenance training. Other topics covered in AIRC 102 are battery servicing, weight & balance, mathematics, and aircraft engine electrical systems. CSU

AIRC 103. Powerplant Theory & Maintenance (8)
Lec-87.5, Lab-175, field trips
Recommended Prep: AIRC 101; AIRC 102
Powerplant theory and systems of reciprocating engines. Inspection, overhaul and repair techniques used in powerplant maintenance. Topics include technical vocabulary, physical properties and inspection, among others. Attention will be given to safety procedures and hands-on skills of maintenance and repair of aircraft reciprocating engines. CSU

AIRC 104. Propulsion Powerplant Systems (8)
Lec-87.5, Lab-175, field trips
Recommended Prep: AIRC 101; AIRC 102
Powerplant theory and systems of turbine engines. Additional topics will include engine instrument systems, engine fire protection systems and powerplant electrical systems, among others. Attention will be given to safety procedures and hands-on skills building. CSU

AIRC 105. Powerplant Systems and Components (8)
Lec-87.5, Lab-175, field trips
Recommended Prep: AIRC 101; AIRC 102
Powerplant systems and components such as engine instrument and engine fuel systems. Procedures necessary to properly repair and maintain systems such as induction systems, engine cooling systems and engine exhaust systems. Emphasis will be put on troubleshooting, operating and testing carburetors and propellers. Attention will be given to safety procedures and hands-on skills of basic maintenance and repair. CSU

AIRC 106. Aircraft Structural Repair (8)
Lec-87.5, Lab-175, field trips
Recommended Prep: AIRC 101; AIRC 102
Principles of complex airframe structures and stresses absorbed by skin coverings. Applied methods and techniques in sheetmetal and non-metalic structural repair in such things as plastics, composites, and honeycomb. Students will learn how to make approved repairs to aircraft structures using standard sheetmetal, fiberglass, and composite technology. Attention will be given to safety procedures and hands-on skills of aircraft structure repair. CSU

AIRC 107. Landing Gear, Hydraulics, and Pneumatics (8)
Lec-87.5, Lab-175, field trips
Recommended Prep: AIRC 101; AIRC 102
Aircraft systems and components. Some subject areas covered are landing gear systems, hydraulic/pneumatic systems and aircraft fuel systems. Includes basic nomenclature, theory of operation, inspection techniques, and troubleshooting. Attention will be given to safety procedures and hands-on skills of maintenance and repair of aircraft systems. CSU

AIRC 108. Airframe Systems & Components (8)
Lec-87.5, Lab-175, field trips
Recommended Prep: AIRC 101; AIRC 102
Various airframe systems and components. Some subject areas are flight control rigging, communication and navigation, and cabin pressurization. Also covered are aircraft instrument systems and aircraft inspection among other topics. Attention will be given to safety procedures and hands-on skills of maintenance and repair of airframe systems. CSU

American Sign Language

Office: Art 202
Phone number: (415) 239-3223
Web Site: *www.ccsf.edu/worl*

Announcement of Courses

Credit, Degree Applicable Courses:

AMSL 1A. Elementary American Sign Language (3)
Lec-52.5 P/NP available
Recommended Prep: (Any City College or university foreign language course) or readiness for college-level English or ESL 188
This is a course for the student with no prior or minimal skills in and knowledge of AMSL. The course is designed primarily to develop the students' receptive skills in functional settings. Everyday communication emphasizing vocabulary, syntax, and fingerspelling to enable students to communicate with Deaf individuals in a culturally appropriate manner. UC/CSU

AMSL 1B. Elementary American Sign Language (3)
Lec-52.5 P/NP available
Prereq: AMSL 1A
Continued development of American Sign Language (AMSL) receptive/expressive skills and knowledge learned in AMSL IA. Emphasis on conversational skills in functional situations, continued vocabulary and sentence structure expansion, and knowledge of Deaf culture and the Deaf community. UC/CSU

AMSL 2A. Continuation of Elementary American Sign Language (3)
Lec-52.5 P/NP available
Prereq: AMSL 1B or demonstration of exit skills
Continued development of American Sign Language (AMSL) receptive/expressive skills and knowledge learned in AMSL 1A and 1B. Emphasis on conversational skills in functional situations, continued vocabulary and sentence structure expansion, focus on Deaf Culture and the Deaf Community. UC/CSU
Offered on occasion

American Studies

Office: Batmale 656
Phone number: (415) 239-3330
Web Site: *www.ccsf.edu/socialsci*

Announcement of Course

Credit, Degree Applicable Course:

AMS 5. Comics, Power and Society (3)
Lec-52.5 P/NP available
Introduction to the social sciences using comic books, graphic novels, and related media illustrating central social science concepts.

Examination of power, powerlessness, and superpower. The past and present impact on a diverse American society of comic books, graphic novels, cartoons, and animation as artistic expressions and representations of socio-political issues. UC/CSU
Offered Fall semesters

Anthropology

Office: Batmale 354
Phone number: (415) 239-3433
Web Site: *www.ccsf.edu/behavior*

Announcement of Curricula

Anthropology Major (AA-T)

Associate in Arts in Anthropology for Transfer. The program is designed to prepare students who wish to transfer to pursue further studies in anthropology. It is a broad introduction to the four fields of anthropology (biological/physical, archaeology, cultural, and linguistic), and the basic concepts of anthropological inquiry.

Learning Outcomes

Upon completion of this program, students will be able to:

- Compare the major contemporary theoretical perspectives in the four major subfields of anthropology
- Analyze and interpret anthropological data
- Apply the methods of cross-cultural comparison and the concept of cultural relativism to past and present cultures

Students who wish to earn the Associate in Arts in Anthropology for Transfer (AA-T) must complete 60 CSU transferable units (or 90 quarter units) with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units required for the major as specified below. Each course in the major must be completed with a minimum grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Anthropology

Course . . . . . Units
Required Courses:
ANTH 1 Biological Anthropology* 3.0
ANTH 2 Archaeology and Prehistory 3.0
ANTH 3 Introduction to Social and Cultural Anthropology 3.0

* Students are encouraged to enroll concurrently in ANTH 1L, Biological Anthropology Lab.

Group 1: Choose ONE of the following courses.
ANTH 3C Introduction to Cultural Anthropology: Focus on U.S. Cultures 3.0
ANTH 4 Introduction to Linguistic Anthropology 3.0
GEOG 4 Cultural Geography 3.0

Or choose ONE of the following Statistics courses
PSYC 5 Statistics for Behavioral Sciences 5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies 5.0
ECON 5 Introductory Statistics for Economics, Business and Social Sciences 5.0
MATH 80 Probability and Statistics 5.0

Group 2: Choose 3-5 units.
Any Group 1 course not already used.
PSYC 2 Research Methods 3.0
GEOL 10 Physical Geology 3.0
and GEOL 10L Physical Geology Lab 2.0

Group 3: Choose 3 elective units.
Any Group 1 or Group 2 course not already used.
ANTH 1L Biological Anthropology Laboratory 1.0
ANTH 8 Magic, Witchcraft, and Religion 3.0
ANTH 11 Latin American Cultures and Societies 3.0
ANTH 12 Indigenous Peoples of North America 3.0
ANTH 15 Philippine Culture and Society 3.0
ANTH 20 Queer Anthropology 3.0
ANTH 25 Culture, Gender and Sexuality 3.0
ANTH 50 Anthropology of Cannabis 3.0
AFAM 30 African American Consciousness 3.0
ASAM 42 Southeast Asians in the U.S.: Experience and Culture 3.0
HUM 7 Comparative Religions 3.0
LALS 9 The Latinx LGBTQ+ Experience 3.0
SOC 52 Men, Masculinity, and Society 3.0

Total: . . . . . 18.0 – 22.0

Announcement of Courses

Credit, Degree Applicable Courses:

ANTH 1. Biological Anthropology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The biological nature of humans and the changes that have occurred from prehistoric times to the present. The place of humans in nature, primates, fossil evidence for human antiquity, individual and population genetics, mechanisms of evolution, and modern human variation. UC/CSU
C-ID ANTH 110

ANTH 1L. Biological Anthropology Laboratory (1)
Lab-52.5, field trips P/NP available
Laboratory course designed to accompany Anthropology 1. It includes hands-on study of human and primate skeletal materials and replica fossils, primate behavior and taxonomy, and human variation. Application of the scientific method and evolutionary theory are also included. UC/CSU

ANTH 2. Archaeology and Prehistory (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Overview of contemporary archaeological methods of survey, excavation, analysis, and interpretation. Discussion of various theoretical approaches used to explain past human behavior. Thematic discussion of the major events in prehistory from human origins to appearance of agriculture and cities. UC/CSU
C-ID ANTH 150

ANTH 3. Introduction to Social and Cultural Anthropology (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the central concepts, theories, and techniques employed by cultural anthropologists to explore the social and cultural dimensions of human experience. Major topics include cross-cultural

comparisons of subsistence patterns, economic and political organization, kinship and marriage, language and symbolism, religion and belief systems, artistic expression, colonialism and globalization, gender, sexuality, and race. UC/CSU
C-ID ANTH 120

ANTH 3C. Introduction to Cultural Anthropology: Focus on U.S. Cultures (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduces cultural anthropology through the focus on cultures in the United States. The course also investigates aspects of the sociocultural structures of the United States such as inequality, power, race/ethnicity, kinship, gender, and globalization. Ethnographic studies, history, literature, film, and music are used to illustrate the ways that people living in the United States negotiate cultural values and confront social conflict. UC/CSU
Formerly ANTH 3AC
Offered on occasion

ANTH 4. Introduction to Linguistic Anthropology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The study of language, including its general nature and its cognitive, biological, and social bases. Languages as they reflect the separate cultural realities of different societies. UC/CSU
Offered Spring semesters

ANTH 8. Magic, Witchcraft, and Religion (3)
Lec-52.5, field trips P/NP available
A cross-cultural exploration of supernatural belief systems focusing on small scale cultures; the history, theory, and methods of the anthropology of religion; the dynamics of myth, superstition, possession, altered states of consciousness, magic, rituals, taboos, cults, and sects. UC/CSU

ANTH 11. Latin American Cultures and Societies (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Comprehensive and critical analysis of the cultures and traditions of the peoples in Latin America. Critical in-depth study of contemporary society and political systems, inter-ethnic relations, traditional medicinal healing, religions, and sorcery. Analysis of the history and development of Latin American cultures and the impact of state forms of social organization on its traditional societies. UC/CSU

ANTH 12. Indigenous Peoples of North America (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The indigenous peoples of North America are described in terms of their precontact adaptation to the natural environment. Language, kinship, religion, and other aspects of culture are studied. UC/CSU
Offered Fall semesters

ANTH 15. Philippine Culture and Society (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course introduces students to the peoples and cultures of the Philippines and the impact of Eastern and Western civilizations on the development of its peoples; emphasis on the ways of life in Philippine rural and urban areas and the cultures of its diverse ethnolinguistic communities. UC/CSU
ANTH 15 Studies the development of Philippine peoples and culture using the perspective of anthropology and its sub-disciplines in archeology, linguistics, and geography, and the influence of colonialism on the science of anthropology and on country's cultural development
Offered on occasion

ANTH 20. Queer Anthropology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A sub-discipline of socio-cultural anthropology that focuses on contexts of difference in sexuality from the (presumed) norms of sexual and gender variation within social systems, practices, and ideologies. Queer anthropology utilizes intersectional studies of sex, race, ethnicity, gender, gender expression, religion, colonialism, and globalization. UC/CSU

ANTH 25. Culture, Gender and Sexuality (3)
Lec-52.5 P/NP available
This course explores how gender and sexuality are expressed in various cultures around the world. Focuses on gender in non-Western cultures such as Native American, African and Asian societies. Discusses relationship of gender to aspects of culture such as kinship, economics, politics, and religion. UC/CSU
Offered Spring semesters

ANTH 50. Anthropology of Cannabis (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines anthropological perspectives of human cannabis use through time. Topics include the archaeological evidence of cannabis use, cross-cultural and symbolic meanings of cannabis, institutional ideologies, and ethnographic studies of cannabis related behaviors. UC/CSU

Apprenticeship

Office: Ocean
Phone Number: (415) 452-5664; (415) 452-7117
Web Site: *https://www.ccsf.edu/en/educational-programs/cte/earn_and_learn/apprenticeship_and_preparation.html*

Announcement of Curricula

General Information

Apprenticeship is designed to prepare individuals, often a high school graduate, and produce highly qualified and well-trained workers who have solid knowledge as well as specific, technical job skills for occupations including but not limited to the skilled trades and crafts. CCSF offers several Apprenticeship programs across multiple sectors including pre-apprenticeship.

The City College of San Francisco, in cooperation with the California Division of Apprenticeship Standards and local joint apprenticeship Committees, offers "related training" apprenticeship programs in designated trades or occupations. Apprenticeship on-the-job training is not offered by the College. Most apprenticeship programs are three to five years in length, similar to a four year bachelor's degree program.

Upon completion of an apprenticeship program, the State of California Department of Industrial Relations California Apprenticeship Council awards a Certificate of Completion of Apprenticeship in the trade.

Course	Occupation	Prog. Yrs.	Class Hrs.
APPR 9713	Plastering Appr	4	576
APPR 9714	Plumber Appr	5	1080 –1296

Persons interested in seeking apprentice status and enrollment in apprenticeship "related training" classes listed in the catalog should contact the State of California Department of Industrial Relations, Division of Apprenticeship Standards of the local sponsoring joint apprenticeship committee.

For further information, please call the CCSF Apprenticeship Programs at (415) 452-5664.

Announcement of Courses

Noncredit Courses:

APPR 9713. Plastering Apprentice (72 hrs)
Prereq: Acceptance into the Northern California Plasterers Local 66 apprentice program
Study of and practice in the trade of plastering as required by the apprenticeship program established by the local joint apprentice program established by the local joint apprenticeship committee and approved by the Division of Apprenticeship Standards Department of Industrial Relations, State of California. Focus on safety, mathematics, hand tools, equipment, materials, mixing, applying plaster, blueprint reading, bases, fireproofing, problems, and repairs.

APPR 9714. Plumbing Apprentice (108 hrs)
Prereq: Acceptance into the UA Local 38 apprentice program
The practice and study of skills and knowledge required for entry level employment as a journeyperson in the plumbing industry. Focus on occupational hazards, safety, first aid, CPR, blueprint reading, use of basic drawings, common cutting and welding practices, gas and arc welding, soldering, brazing, residential plumbing repairs and installations, troubleshooting residential plumbing problems, and recommended industrial practices.
Formerly Plumber Apprentice

APPR 9715. Refrigeration/Air Conditioning (1050 hrs)
Prereq: Pass the UA Local 38 (Plumbing) apprentice exam
Required for preparation for employment as a journey person in refrigeration/air conditioning industry. Classroom instruction (6 hrs/wk over 10 semesters) supplements on-the-job training apprentices receive. Theoretical instruction and practice of performance skills are specified by the standards established by the joint apprenticeship committee and approved by the Division of Apprenticeship Standard, Department of Industrial Relations, State of California.

APPR 9721. Steamfitter Apprentice (1050 hrs)
Prereq: Pass the UA Local 38 (Plumbing) apprentice exam
Required for preparation for employment as a journey person in steamfitting. Classroom instruction (6 hrs/wk over 10 semesters) supplements the on-the-job training apprentices receive. Theoretical instruction and practice of performance skills are specified by the standards established by the joint apprenticeship committee and approved by the Division of Apprenticeship Standard, Department of Industrial Relations, State of California.

Architecture

Office: Batmale 244
Phone Numbe: (415) 452-5293
Web Site: *www.ccsf.edu/arch*

Announcement of Curricula

Learning Outcomes
Architecture and **Interior Architecture** students will develop an understanding of design as a model for creative inquiry, using necessary resources from history, technology, the humanities and contemporary culture issues in response to the fundamental principle that design's relevance is based on its ability to engage society's concerns.

Construction Management students will learn the basic effective management techniques related to the planning, design, and construction of a project from inception to completion for the purpose of controlling time, cost and quality.

The requirements for an Associates degree from CCSF and requirements for transferring to a baccalaureate program in another college or university are different. Students who are seeking to attain an Associates of Science in Architecture, or Construction Management should follow the major requirements listed below. ***Students who are seeking to transfer to another university or college to attain a 4- or 5-year degree are strongly encouraged to consult with an advisor within your program of study.***

Laptop Recommendation: ***The Department of Architecture strongly recommends that all students planning to transfer to a 4- or 5-year university program in Architecture or Interior Design purchase a Windows portable computer with dedicated graphics card for use in certain design and graphic courses.*** The use of computers in most architecture and design schools has become an essential tool in lab-based design education and would benefit your education immensely. Please inquire with the department what kind of laptop computer would be helpful and when you could consider obtaining it.

Architecture Major (AS)

The Associate's Degree in Architecture will prepare students in areas of design, technology, digital skills, drawing, delineation and rendering, structures, history, and professional practice. This program is closely aligned with the requirements necessary for transferring to the four-year program within the UC system. Students who wish to pursue a bachelor's degree (either the 4-year BA or the 5-year BArch) should understand that each transfer institution has its own set of transfer requirements. Those different requirements can be found on the individual transfer institutions' websites.

Students pursuing the Associate Degree in Architecture are required to take major courses in the categories of sketching, studio, delineation and rendering, history, and construction.

Graduates of the Associate Degree in Architecture may also choose to enter directly into the marketplace and would be qualified in various capacities in the fields of architecture, construction, and related fields. Positions such as architectural technician, construction detailer, building materials salesperson, or manufacturer's representative are examples of possible employment a graduate may pursue after completing this course of study.

Learning Outcomes

Upon completion of this program, students will be able to:

- Develop architectural graphics using digital and analog tools that communicate design intentions and document construction requirements.

- Create architectural solutions to a set of project requirements.
- Compare exemplary historical examples of architecture as impacted by social, political, economic, and/or environmental factors.
- Explain the duties and responsibilities of stakeholders within the legal and regulatory environments.
- Identify building and material systems that are responsive to the major requirements of a project.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, the minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Architecture

Course	Units
Required	
ARCH 100 Introduction to Architecture and Design	2.0
ARCH 29A Freehand Drawing I	1.0
ARCH 29B Freehand Drawing II	1.0
ARCH 102 Architecture Design Studio II	3.0
ARCH 103 Architecture Design Studio III	3.0
Choose one course from the following	
ARCH 20 Architectural Graphics I	3.0
ARCH 101 Architecture Design Studio I	3.0
Choose two courses from the following	
ARCH 22A Delineation and Rendering	3.0
ARCH 218 Fundamentals of Rhino 3D	3.0
ARCH 214 AutoCAD I	3.0
BIM 120 Revit Architecture I	3.0
Choose one course from the following	
ARCH 31A History of Architecture I	3.0
ARCH 31B History of Architecture II	3.0
ART 103 History of Modern Art	3.0
Choose one course from the following	
ARCH 120 Fundamentals of Building Construction	3.0
ARCH 127 Fundamentals of Building Structures	3.0
ARCH 160 Professional Practice	3.0
ARCH 240 Fundamentals of the International Building Code	3.0
INTD 100 Introduction to Residential Interior Design	3.0
VMD 154 Photoshop I	3.0
Total:	**25.0**

Interior Design Major (AS)

The Associate in Science Degree in Interior Design will prepare students in areas of design, technology, digital skills, drawing, delineation and rendering, structures, history, and professional practice. Entry positions for which graduates who have received the degree may qualify for employment positions that may include those of draftsperson, delineator, salesperson, furniture designer, and assistant in the coordination of colors, fabric, furniture, lighting systems, and exhibits. The A.S. degree in Interior Design has a strong emphasis on both Architecture and Art. Students are required to take courses covering design studio, graphics, color, and history.

Students who wish to transfer to a bachelor's degree program should understand that each transfer institution has its own set of transfer requirements. Those different requirements can be found on the individual transfer institutions' websites.

Learning Outcomes

Upon completion of this program, students will be able to:

- Create interior solutions to a set of project requirements, including material and color selection.
- Produce interior graphics using digital and analog tools that communicate design intentions and document construction requirements.
- Analyze the historical periods and movements of interior design.
- Explain the duties and responsibilities of stakeholders within the legal and regulatory environments.
- Analyze technical building and material systems and their interface with interior spaces.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Interior Design

Course	Units
Required	
ARCH 29A Freehand Drawing I	1.0
ARCH 120 Fundamentals of Building Construction	3.0
INTD 100 Introduction to Residential Interior Design	3.0
INTD 102 Interior Design Studio I	3.0
Choose one course from the following	
ARCH 101 Architecture Design Studio I	3.0
ART 125A Basic Design: 2-D Foundations	3.0
ARCH 20 Architectural Graphics I	3.0
Choose one course from the following	
ARCH 22A Delineation and Rendering	3.0
ARCH 214 AutoCAD I	3.0
BIM 120 Revit Architecture I	3.0
Choose one course from the following	
ART 126 Color	3.0
VMD 118/DSGN 150 Color in Design	3.0
Choose one course from the following	
ARCH 31B History of Architecture II	3.0
ART 103 History of Modern Art	3.0
INTD 138 Global History of Interior Design	3.0
Total:	**22.0**

Construction Management Major (AS)

This Associate in Science Degree Program prepares students to enter the construction management profession in responsible positions. The program is comprehensive and provides students with the practical knowledge and skills required to be effective in professional environments. The California State Contractors License Board gives students who graduate with this degree credit for one and a half of the four years of practical experience required of applicants for the state

building contractor's license. Upon graduation from the Construction Management Program, students are qualified to enter the profession through a wide variety of employers, such as construction managers, general contractors, and sub-contractors, as well as architectural and engineering offices. Opportunities upon entry into the profession are varied and include estimating and cost control, scheduling and planning, document control, quality assurance, and inspection.

Learning Outcomes

Upon completion of this program, students will be able to:

- Estimate, organize and manage construction project resources through the use of cost estimates and schedules.
- Analyze and interpret construction documents.
- Assess the role of material selection and structures in the field of construction management.
- Assess the contractual and regulatory considerations and restraints associated with the administration of a construction project.
- Apply effective methods of communication in a professional work environment.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Construction Management

Course	Units
Required	
CM 100 Fundamentals of Construction Management	3.0
CM 110 Construction Graphics	3.0
CM 240 Construction Cost Estimating	3.0
CM 244 Construction Scheduling	3.0
CM 248 Construction Project Administration	3.0
ARCH 120 Fundamentals of Building Construction	3.0
Choose 6 units from the following	
BSEN 74 Written Business Communication	3.0
CM 20 Introduction to Building Industry Projects	1.0
CM 250 Building Industry Communications and Documents.	2.0
CMST 1A Elements of Public Speaking	3.0
CMST 4 Group Communication	3.0
CMST 6 Workplace Communication	3.0
MGT 234 Communication for Business Management	3.0
Choose 6 units from the following	
ACCT 10 Introduction to Accounting	5.0
ARCH 127 Fundamentals of Building Structures	3.0
ARCH 160 Professional Practice	3.0
ARCH 240 Fundamentals of the International Building Code	3.0
BSL 1 Business Law I	3.0
CM 10 Introduction to Construction Management	1.0
GNBS 100 Essential Skills for Business Professionals.	1.0
GNBS 119 Introduction to Business	3.0
MGT 231 Introduction to Supervision and Management	3.0
Total:	**30.0**

Architectural Drafting Technology Certificate

This program focuses on technical skills in producing architectural drawings and technology-related skills in the fields of architecture, interior design, construction, engineering and related fields. The certificate is designed to meet the needs of students who want to obtain entry-level jobs as architectural technologists. It also provides students who are currently employed in related industries the opportunity for career advancement. Most courses required for the certificate program are also required for the Associate Degree in Architecture, Associate Degree in Interior Design, and transfer to a bachelor's degree in Architecture program if students wish to continue their studies.

Learning Outcomes

Upon completion of this program, students will be able to:

- Create and modify architectural design documents.
- Apply various relevant software technology to architectural design.
- Evaluate architectural design documents.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and the number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Architectural Drafting Technology

Course	Units
Required	
ARCH 20 Architectural Graphics I.	3.0
ARCH 22A Delineation and Rendering.	3.0
Choose 12 units from the following	
ARCH 29A Freehand Drawing I	1.0
ARCH 29B Freehand Drawing II	1.0
ARCH 100 Introduction to Architecture and Design.	2.0
ARCH 101 Architecture Design Studio I	3.0
ARCH 102 Architecture Design Studio II	3.0
ARCH 120 Fundamentals of Building Construction	3.0
ARCH 214 AutoCAD I	3.0
ARCH 218 Fundamentals of Rhino 3D	3.0
BIM 120 Revit Architecture I	3.0
Total:	**18.0**

Construction Management: Advanced Skills Certificate

The Certificate of Achievement in Construction Management: Advanced Skills includes courses that focus on the technical and management skills required in the field of construction management, as well as courses that provide knowledge in the technical aspects of construction and general business. This certificate is designed to meet the needs of students who are returning to college after completing a degree in another field who seek to enter into the profession of construction management. It also provides students who are currently employed in the construction management industry in entry-level positions the opportunity for advancement by enhancing their knowledge. All courses required for the certificate program are also required for the associate in science, making it easier for students to continue their studies to enhance their opportunities for career advancement.

Learning Outcomes

Upon completion of this program, students will be able to:

- Estimate, organize, and manage construction project resources through the use of cost estimates and schedules.

- Analyze and interpret construction documents.
- Assess the role of material selection and structures in the field of construction management.
- Assess the contractual and regulatory considerations and restraints associated with the administration of a construction project.
- Apply effective methods of communication in a professional work environment.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Construction Management: Advanced Skills

Course	Units
Required	
CM 100 Fundamentals of Construction Management	3.0
CM 110 Construction Graphics	3.0
CM 240 Construction Cost Estimating	3.0
CM 244 Construction Scheduling	3.0
CM 248 Construction Project Administration	3.0
ARCH 120 Fundamentals of Building Construction	3.0
Choose 6 units from the following	
BSEN 74 Written Business Communication	3.0
CM 20 Introduction to Building Industry Projects	1.0
CM 250 Building Industry Communications and Documents	2.0
CMST 1A Elements of Public Speaking	3.0
CMST 4 Group Communication	3.0
CMST 6 Workplace Communication	3.0
MGT 234 Communication for Business Management	3.0
Choose 6 units from the following	
ACCT 10 Introduction to Accounting	5.0
ARCH 127 Fundamentals of Building Structures	3.0
ARCH 160 Professional Practice	3.0
ARCH 240 Fundamentals of the International Building Code	3.0
BSL 1 Business Law I	3.0
CM 10 Introduction to Construction Management	1.0
GNBS 100 Essential Skills for Business Professionals	1.0
GNBS 119 Introduction to Business	3.0
MGT 231 Introduction to Supervision and Management	3.0
Total:	**30.0**

Construction Management: Core Skills Certificate

The Certificate of Achievement in Construction Management: Core Skills is a course of study focused on the core technical and management skills required in the field of Construction Management. This certificate is designed to meet the needs of students who want to obtain entry-level positions within the Construction Management profession. It also provides students who are currently employed in trades positions in the construction industry the opportunity for entry and/or advancement in management positions.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply project management methodologies to plan and control construction work activities.
- Analyze and interpret construction documents.
- Assess the contractual and regulatory considerations and restraints associated with the administration of a construction project.
- Communicate effectively in a professional construction management work environment.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Construction Management: Core Skills

Course	Units
Required	
ARCH 120 Fundamentals of Building Construction	3.0
CM 10 Introduction to Construction Management	1.0
CM 100 Fundamentals of Construction Management	3.0
CM 110 Construction Graphics	3.0
CM 240 Construction Cost Estimating	3.0
CM 248 Construction Project Administration	3.0
Choose one of the following options	
BSEN 74 Written Business Communication	3.0
or CM 20 Introduction to Building Industry Projects and CM 250 Building Industry Communications and Documents	1.0 2.0
Total:	**19.0**

Core Skills Interior Design Certificate

This program focuses on the areas of interior design and technology, and is designed to meet the needs of students who want to obtain entry-level jobs within the interior design profession, such as interior design assistants and drafters. It also provides students who are currently employed in a related industry the opportunity for career advancement. Most courses required for the certificate program are also required for the Associate in Science Degree in Interior Design and Associate in Science Degree in Architecture, if students wish to continue their studies.

Learning Outcomes

Upon completion of this program, students will be able to:

- Create interior design solutions and graphics for a set of project requirements in a residential or commercial design environment.
- Assess materials and technical systems used in the field of interior design.
- Analyze professional, legal, and regulatory environments.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and the number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Core Skills Interior Design

Course	Units
Required	
ARCH 120 Fundamentals of Building Construction	3.0
INTD 100 Introduction to Residential Interior Design	3.0
INTD 102 Interior Design Studio I	3.0
Choose 3 units from the following	
ARCH 214 AutoCAD I	3.0
ARCH 218 Fundamentals of Rhino 3D	3.0
BIM 120 Revit Architecture I	3.0

ARCH 22A Delineation and Rendering. 3.0

Choose 3 units from the following
ARCH 160 Professional Practice 3.0
MRKT 122 Professional Selling 3.0

Choose 3 units from the following
ARCH 20 Architectural Graphics I. 3.0
ARCH 101 Architecture Design Studio I 3.0

Total: 18.0

Collaborative Design Certificate*

The certificate program in Collaborative Design provides students with a strong foundation in multidisciplinary approaches to design and collaboration.
*See Maker Studies section of the catalog.

Announcement of Courses

Architecture

Credit, Degree Applicable Courses:

ARCH 20. Architectural Graphics I (3)
Lec-35, Lab-70, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to techniques, conventions, meanings, and purposes related to drawing and drafting conventions as used in architecture and interior design. Fundamental graphic principles, concepts, and strategies are examined through hand and digital production. CSU
Offered Fall and Spring semesters

ARCH 22A. Delineation and Rendering (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: ARCH 20 or ARCH 101
Basic drawing techniques in graphic communication. Two and three-dimensional representations with various media expressing architectural ideas and concepts. UC/CSU
Offered Fall semesters

ARCH 29A. Freehand Drawing I (1)
Lec-17.5, Lab-17.5, field trips P/NP available
Introduction to freehand drawing skills as a method of observation and visual communication in Architecture and Interior Design. The use of drawing in seeing and expressing shape, form, value, texture and proportion. Techniques include contour line, tonal drawing, and linear perspective. UC/CSU
Offered Fall and Spring semesters

ARCH 29B. Freehand Drawing II (1)
Lec-17.5, Lab-17.5, field trips P/NP available
Prereq: ARCH 29A
A continuing development of skills in freehand drawing methods, with more complex subject matters and the use of color media. Focus is on the drawing from observation of buildings and architectural space. UC/CSU
Offered Fall and Spring semesters

ARCH 31A. History of Architecture I (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the history of Architecture from prehistory through the the Middle Ages. Focus on visual environmental literacy through the analysis of key design movements during the time period. UC/CSU
Elective offered at the department's discretion

ARCH 31B. History of Architecture II (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the history of architecture from the early Renaissance to the present times. Focus on visual environmental literacy through the analysis of key design movements during the time period. UC/CSU
Offered Fall semesters

ARCH 100. Introduction to Architecture and Design (2)
Lec-35, field trips P/NP available
This course introduces students to the fundamental principles related to design of physical environments. Students will be introduced to an overview of the architecture and interior design fields, along with fundamental concepts and considerations inherent within them. UC/CSU
ARCH 100=ARCH 48
Offered Fall and Spring semesters

ARCH 101. Architecture Design Studio I (3)
Lec-35, Lab-70
Recommended Prep: Completion of or concurrent enrollment in: ARCH 100
Introduction to architectural concepts and principles through 2-D and 3-D design projects. Focus is on issues, requirements, and objectives related to visual perception of form and space, architectural meaning, spatial experiences, as these relate to the human condition. UC/CSU
Offered Fall and Spring semesters

ARCH 102. Architecture Design Studio II (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: ARCH 101 or ARCH 20
A second design studio course in a sequence that expands upon fundamental architectural principles and concepts within Architecture and Design. Students explore topics related to design process, site, program, place, order, space within simple architectural problems. UC/CSU
Offered Fall semesters

ARCH 103. Architecture Design Studio III (3)
Lec-35, Lab-70, field trips
Prereq: ARCH 102; Completion of or concurrent enrollment in: ARCH 22A
A third semester design studio course in a sequence that expands upon fundamental architectural principles and concepts within architecture and design. Students focus on urban analysis and design process, program, site and place in response to increasingly complex project requirements. UC/CSU
Offered Spring semesters

ARCH 120. Fundamentals of Building Construction (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Comprehensive survey of all major building materials and systems of assembly in architecture and construction. Topics include wood, masonry, concrete, steel, glass, foundations, roofing, walls, frames, doors, and windows as well as considerations of sustainability in the construction process. CSU
Offered Fall and Spring semesters

ARCH 127. Fundamentals of Building Structures (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Awareness of architectural structural concepts; fundamental aspects and principles of basic structural forms, loads and materials. Reveal and discuss the multi-discipline nature of structural systems in the built environment (including sustainability and the environment) within the architectural and construction fields. CSU
Formerly ARCH 27
Elective offered at the department's discretion

ARCH 160. Professional Practice (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Completion of or concurrent enrollment in: ENGL 88
An overview of the professional practice of architecture, interior design, construction management and building construction from design through construction. Topics include licensing and training requirements; project delivery methods and contracts; business considerations; the influence of such factors as ethics, sustainability, economics, and legal regulations on the design and construction process. CSU
Elective offered at the department's discretion

ARCH 214. AutoCAD I (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: ARCH 20
An introduction to the Autodesk AutoCAD software, starting with a basic understanding of the software interface and moving to two dimensional line drawings for an architectural application. Explore collaborative drawing with externally referenced files and management using a layering system. CSU
Offered Fall Semesters

ARCH 218. Fundamentals of Rhino 3D (3)
Lec-35, Lab-70, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to Rhinoceros three-dimensional surface modeling software. Rhino's NURB based geometry enables the construction of free-form organic surfaces that can be applied to architectural and other design fields such as jewelry, marine, transportation, and industrial designs. The focus will be on creating, editing, and transforming three-dimensional surface models. UC/CSU
Elective offered at the department's discretion

ARCH 240. Fundamentals of the International Building Code (3)
Lec-52.5, field trips P/NP available
A comprehensive introduction to the fundamentals of the International Building Code (IBC) that is adopted and used throughout most jurisdictions of the United States to regulate the use, design, construction, and maintenance of buildings. CSU
Elective offered at the department's discretion

Building Information Modeling

Credit, Degree Applicable Courses:

BIM 120. Revit Architecture I (3)
Lec-35, Lab-61.25, field trips P/NP available
Recommended Prep: ARCH 20 and ARCH 120
An introduction to Building Information Modeling (BIM) and Revit Architecture software. Automation and creation of building design and documentation, interface and tools, and coordination of data. No previous CAD experience required. CSU
Offered Spring semesters

Construction Management

Credit, Degree Applicable Courses:

CM 10. Introduction to Construction Management (1)
Lec-17.5 P/NP available
Overview of the Construction Management profession and the requirements for programs of study. This course focuses on the scope and nature of work in Construction Management, including professional roles, skills and responsibilities, career opportunities, and higher education pathways. CSU
Offered Fall and Spring semesters

CM 20. Introduction to Building Industry Projects (1)
Lec-17.5, field trips P/NP available
Overview of Building Industry projects and lessons learned. Provides more real-life experiences about professional roles, skills and responsibilities, career opportunities, and higher education pathways. CSU
Offered Fall and Spring semesters

CM 100. Fundamentals of Construction Management (3)
Lec-52.5 P/NP available
Introduction to the basic concepts of construction project management including: the building design and construction process; project participants, their roles and responsibilities. Areas of focus to include the application of the principles of contracts in relation to construction projects, estimating, scheduling and project control. CSU
Offered Fall and Spring semesters

CM 110. Construction Graphics (3)
Lec-52.5 P/NP available
Introduction to basic graphic and communication skills and knowledge required to effectively read and use drawings in the construction industry. Analysis of drawings in the civil, architectural, structural, mechanical, and electrical fields and their relationship to construction planning and estimating. Material quantity surveying. Freehand sketching. CSU
Offered Spring semesters

CM 240. Construction Cost Estimating (3)
Lec-52.5 P/NP available
Prereq: CM 110 or demonstration of CM 110 exit skills
A study of the fundamental approaches to estimating the cost of building construction projects. Topics discussed include: types of construction estimates; the material takeoff process; the use of computers in estimating; total project estimating including direct costs, indirect costs, contingency and profit. CSU
Offered Fall semesters

CM 244. Construction Scheduling (3)
Lec-52.5 P/NP available
Prereq: CM 240 or demonstration of CM 240 exit skills
Study of the basic concepts of construction scheduling: scheduling techniques with a focus on Critical Path Method; CPM schedule planning, scheduling, updating and analysis. Manual procedures in scheduling are followed by computer applications. CSU
Offered Fall semesters

CM 248. Construction Project Administration (3)
Lec-52.5 P/NP available
Recommended Prep: CM 100
Principles and practical applications of construction project administration with an emphasis on construction-phase services. Topics include: an overview of project administration throughout the phases of a construction project; the contractual and regulatory environment of construction projects; the development of a project procedures manual; computer-based project administration. CSU
Offered Spring semesters

CM 250. Building Industry Communications and Documents (2)
Lec-35 P/NP available
Recommended Prep: BSEN 74
Introduction to the selection, applicability, and purpose of the different documents used in the Engineering and Construction Project Management Process. Theoretical concepts and practical applications including pre-construction, meetings, submittals, site visits, observations, inspections, quality assurance, and quality control. CSU
Offered Fall semesters

Interior Design

Credit, Degree Applicable Courses:

INTD 100. Introduction to Residential Interior Design (3)
Lec-35, Lab-70 P/NP available
Introduction to residential interior design concepts and principles through two-dimensional and three-dimensional design projects. Exploration of topics related to design process, color, material finishes, and spatial composition as these relate to the profession. UC/CSU
Offered Fall semesters

INTD 102. Interior Design Studio I (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: ARCH 100
Introduction to interior design fundamentals relating to space and form of commercial and institutional interior environments. Topics include color, space, form, light, sustainability, material, furniture selection, windows, floors, and accessories as these relate to the profession. CSU
Offered Spring semesters

INTD 138. Global History of Interior Design (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The history of Interior Design ranging from ancient times to the 21st Century, including Western, Asian, Middle Eastern, African and Latin American cultures. The course will focus on historical periods and their influences on the design of interior spaces. CSU
Offered Spring semesters

Art

Office: Visual Arts 118
Phone Number: (415) 239-3157
Web Site: *www.ccsf.edu/Art*

Announcement of Curricula

General Information

The Art Department offers students a comprehensive lower division program in the areas of Art History and Fine Art/Studio Arts. Centered upon visual literacy, design and drawing curriculum, the Art Department prepares students for transfer to upper division courses or for direct entry into art careers. Most of our courses are accepted for credit at the University of California and California State University.

Students intending to transfer and major in Fine Art/Studio Arts are advised to enroll in two art history courses, along with general education and studio courses. Students intending to transfer and major in Art History are advised to enroll in one studio course, along with general education and art history courses.

Studio Arts Major (AA-T)

Associate in Arts in Studio Arts for Transfer. The AA-T in Studio Arts offers students a comprehensive lower division program in the fine arts, revolving around the basic core program. The AA-T prepares students for transfer to upper division Fine Art or Studio Arts programs at four-year colleges and universities, particularly to California State University campuses.

Learning Outcomes

Upon completion of this program, students will be able to:

- Engage in a visual literacy based upon the elements of design and an awareness of historical and contemporary artistic cultures and trends.
- Evaluate artwork by identifying design elements and using discipline specific terminology and skills.
- Develop a series of projects that demonstrate critical analysis, creative thinking, and technical skill in a variety of media.
- Solve problems identified in the processes of creation.

Students who wish to earn the Associate in Arts in Studio Arts for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Studio Arts

Course . . . . . Units

Required courses:
ART 102 Western Art History II 3.0
ART 103 History of Modern Art 3.0
ART 125A Basic Design: 2-D Foundations 3.0
ART 125B Advanced Design: 3D Foundations 3.0
ART 130A Basic Drawing 3.0

Choose 1 course from the following Art History course selection:
ART 101 Western Art History I 3.0
or ART 104 Asian Art History 3.0
or ART 109 History of Contemporary Art 3.0

Choose 3 courses, each from a different Studio Arts area:
Area 1: Color
ART 126 Color 3.0

Area 2: Drawing
ART 130B Intermediate Drawing 3.0
ART 132A Beginning Figure Drawing 3.0

Area 3: Painting
ART 140A Beginning Painting 3.0

Area 4: Printmaking
ART 150A Beginning Intaglio & Relief Printmaking 3.0

Area 5: Ceramics
ART 160A Beginning Ceramics. 3.0

Area 6: Sculpture
ART 170A Beginning Sculpture. 3.0

Area 7: Metal Arts
ART 180A Beginning Jewelry/Metal Arts 3.0

Area 8: Other Media
ART 136A Introduction to Illustration. 3.0
ART 145A Beginning Watercolor Painting 3.0

Area 9: Photography
PHOT 51 Beginning Photography. 3.0

Area 10: Second Level Courses
ART 140B Intermediate Painting. 3.0
ART 150B Intermediate Intaglio and Relief Printmaking 3.0
ART 170B Intermediate Sculpture. 3.0
ART 160B Intermediate Ceramics. 3.0

Total: 27.0

Art History Major (AA-T)

Associate in Arts in Art History for Transfer offers students a comprehensive lower division program in the history of art, revolving around the basic core program. The AA-T prepares students for transfer to upper division Art History programs at four-year colleges and universities, particularly to California State University campuses.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze a variety of techniques and formal visual elements of individual works of art in different media and diverse cultures.
- Define and differentiate various styles of art throughout history.
- Evaluate works of art in relation to context, historical background, and influence on subsequent artistic periods.
- Compare stylistic elements that distinguish aesthetic and cultural trends.

Students who wish to earn the Associate in Arts in Art History for Transfer (AAT) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

Assuming students start this AAT with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Art History

Course . . . . . Units
Required Core Courses
ART 101 Western Art History I 3.0
ART 102 Western Art History II 3.0
ART 103 History of Modern Art 3.0
ART 130A Basic Drawing 3.0

Choose one (1) of the following non-Western Art History Courses
ART 104 Asian Art History 3.0
ART 105 Ancient Art and Architecture of Latin America. 3.0
ART 106 Latin American Art History 3.0

Choose one (1) course from the following studio arts courses:
ART 125A Basic Design: 2-D Foundations 3.0
ART 132A Beginning Figure Drawing 3.0
ART 136A Introduction to Illustration. 3.0
ART 140A Beginning Painting 3.0
ART 150A Beginning Intaglio & Relief Printmaking 3.0
ART 160A Beginning Ceramics. 3.0
ART 170A Beginning Sculpture. 3.0
ART 180A Beginning Jewelry/Metal Arts 3.0
PHOT 51 Beginning Photography. 3.0

Choose one (1) of the following Art History elective courses
ART 107 African-American Art History 3.0
ART 108 Women Through Art History 3.0
ART 109 History of Contemporary Art 3.0
ART 118 American Art 3.0
ART 122A Russian Art at the Legion 3.0
ART 123Q Baroque Masters of Light 3.0
ART 123U 18th c. French Art at the Legion 3.0
ART 123V Renaissance Art at the Legion 3.0
ART 123W 19th Century Painting at the Legion. 3.0
PHOT 50A History & Aesthetics Pre-1945 . . . . . 4.0
PHOT 50B History & Aesthetics Since 1945 . . . . . 4.0

Total: . . . . . 21.0 – 22.0

Asian Art and Culture Certificate

The Asian Art and Culture Certificate of Achievement provides essential knowledge, processes, principles, and skills for visual artists. Students will produce works of art based on Asian design principles and develop a background in Asian history and culture. It can serve as a stand-alone certificate or as a basis for advanced study in painting, art history, criticism, or other visual arts disciplines.

Learning Outcomes

Upon completion of this program, students will be able to:

- Produce and peer critique student works of art influenced by Asian design principles, skillful techniques, and personal aesthetics.
- Describe historical and contemporary calligraphy and painting approaches to Asian art.
- Examine works of art in relation to the cultural and sociological context in which they were created.
- Evaluate works of art in terms of technique, function, form, and content using art and discipline terminology.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Asian Art and Culture

Course . . . . . Units
Required
ART 104 Asian Art History 3.0
ART 146A Beginning Chinese Brush Painting 3.0
ASIA 11 East Asian Calligraphy: An Introduction 3.0
ASIA 15 Asian Societies and Cultures through Film 3.0

Choose 2 courses from the following
ART 146B Intermediate Chinese Brush Painting 3.0
ASIA 30 Manga and Anime 3.0
CHIN 33 Chinese Culture for Heritage Learners 3.0

HIST 35A Chinese History 3.0
HIST 35B History of China 3.0
HIST 37 History of the Philippines. 3.0
JAPA 39 Japanese Culture and Civilization 3.0
PHST 30 Philippine Society and Culture Through Film. . 3.0
PHST 42 Introduction to Philippine Arts 3.0
Total: 18.0

Announcement of Courses

The majority of advanced classes in the Art Department require that prerequisites be completed before taking those classes. Students who have not completed those prerequisites must demonstrate the exit skills required upon completion of the prerequisite(s). (See specific courses for prerequisite requirements.)

Most Art Studio courses listed will require a laboratory fee.

Art History Courses

The Art History Curriculum offers a wide selection of courses which apply critical thinking and analytical skills to an understanding of visual arts from around the world. The course selection includes: Art 101 through 118, of which several are offered online, and Selected Topics Courses (Art 122 and 123 series) that offer a more in-depth study of art at the Legion of Honor and the De Young Fine Arts Museums of San Francisco. All Art History courses may be taken in any sequence. College-level reading and writing skills are advised.

Credit, Degree Applicable Courses:

ART 101. Western Art History I (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
Survey of Western art from the Paleolithic period through Late Antiquity and the art of Byzantium. Art will be discussed from critical and historical perspectives with regard to formal visual elements of style and the social context of the societies, values, and ideas that gave birth to Western art. UC/CSU
C-ID ARTH 110 (ART 101 + ART 102)
Formerly Western Art History
Offered Fall and Spring semesters

ART 102. Western Art History II (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
Survey of Western art from the sixth to the early nineteenth centuries: Medieval through the Romantic periods. Art will be discussed from critical and historical perspectives with regard to formal visual elements of style and social context of the societies, values, and ideas that determined the course of Western art. UC/CSU
C-ID ARTH 110 (ART 101 + ART 102); C-ID ARTH 120 (ART 102 + ART 103)
Formerly Western Art History
Offered Fall and Spring semesters

ART 103. History of Modern Art (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
Survey of modern and contemporary art in Europe and America from the mid-19th century through the early 21st century. Art will be discussed and analyzed from critical and historical perspectives, formal visual elements of style, and social/cultural contexts. Students will learn to identify pivotal artists, styles, and techniques and to critically analyze art within its cultural framework. UC/CSU
C-ID ARTH 120 (ART 102 + ART 103)
Offered Fall and Spring semesters

ART 104. Asian Art History (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the artistic heritages of Asia from the Neolithic period to the present. Painting, sculpture, architecture, and crafts will be examined within their historical, political, and socio-cultural background. Students learn to identify styles, recognize techniques and formal visual elements, and critically analyze artwork within its contextual framework. UC/CSU
C-ID ARTH 130
Offered Fall and Spring semesters

ART 105. Ancient Art and Architecture of Latin America (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the artistic heritage of Ancient Mexico, Central, and South America. Art 105 explores the stylistic traditions and themes which gave unity to the art of this part of the world as well as the diverse cultural characteristics which led to the development of regional styles. UC/CSU
Offered Fall and Spring semesters

ART 106. Latin American Art History (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The artistic heritage of Latin America from the sixteenth century CE to the present. All art will be discussed from both a critical and historical perspective with regard to formal visual elements of style and the societies, values, and ideas that gave birth to Latin American Art. UC/CSU
Offered Fall semesters

ART 107. African-American Art History (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
Heritage of West African civilizations prior to and during the slave trade, and of African-Americans from colonial to contemporary times. All art will be discussed from both a critical and historical perspective with regard to formal visual elements of style and the societies, values and ideas that gave birth to African-American art. UC/CSU
Offered Spring semesters

ART 108. Women Through Art History (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Investigation of women's roles in European and non-European society as artists, patrons and subjects in art from pre-history to the present. Artworks are examined through formal and thematic characteristics and from a historical, social and gender-based perspective. UC/CSU
Offered Fall and Spring semesters

ART 109. History of Contemporary Art (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
Survey of late modern and contemporary art from 1945 to the present day. Art will be discussed and analyzed from critical and historical

perspectives, formal visual elements of style, social/cultural contexts, and changing scholarship. Students will learn to identify pivotal artists, styles, and techniques and to critically analyze art within its cultural framework. UC/CSU
Offered Spring semesters

ART 118. American Art (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The history of American art from colonial times to the present. Painting, sculpture, architecture, and crafts will be examined within their historical, political and sociocultural background. Students learn to identify works by pivotal artists, recognize techniques and formal visual elements, and critically analyze artwork within its contextual framework. UC/CSU
Offered Fall and Spring semesters

ART 122A. Russian Art at the Legion (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Russian art from the 10th to early 20th century will cover the Medieval Period, Western Academic Tradition, Romanticism and Critical Realism, Neo-nationalist Movement and the Russian Avant Garde. All art will be discussed for its formal qualities of style, culture, iconography and technical achievement. UC/CSU
Class held at the Legion of Honor Museum
Elective offered at the department's discretion

ART 123Q. Baroque Masters of Light (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course examines Baroque art at the Legion of Honor museum. All art will be discussed from both a critical and historical perspective with regard to cultural context and formal elements of styles. UC/CSU
Class held at the Legion of Honor Fine Arts Museum
Elective offered at the department's discretion

ART 123U. 18th c. French Art at the Legion (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course examines 18th-century French paintings from the permanent collection at the Legion of Honor Museum. Paintings will be discussed from both a critical and historical perspective with reference to cultural context and formal elements of style. UC/CSU
Class held at the Legion of Honor Fine Arts Museum
Elective offered at the department's discretion

ART 123V. Renaissance Art at the Legion (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course examines Renaissance art from the permanent collection and special exhibitions at the Legion of Honor Museum. Art will be discussed from a critical and historical perspective with regard to cultural context and formal elements of style. UC/CSU
Class held at the Legion of Honor Fine Arts Museum
Elective offered at the department's discretion

ART 123W. 19th Century Painting at the Legion (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course examines 19th-century painting from the permanent collection and special exhibitions at the Legion of Honor Museum. All art will be discussed from both a critical and historical perspective, with regard to cultural context and formal elements of style. UC/CSU
Class held at the Legion of Honor Fine Arts Museum
Elective offered at the department's discretion

Fine Arts Courses

The Fine Art/Studio Arts Curriculum provides students with a comprehensive range of instruction in the methods of producing two- and three-dimensional artwork. Basic Design- ART 125A is the prerequisite for ART 125B – Advanced Design: 3D and Basic Drawing - ART 130A serves as the prerequisite for ART 130B - Intermediate Drawing, ART 132A - Beginning Figure Drawing, and ART 139 - Live Model Character Illustration. All studio classes, several of which are offered in hybrid format, should be taken sequentially in order for students to acquire the skills necessary for their success in intermediate, advanced and mastery course work.

Enrollment Limitations on Physical Education and Visual or Performing Arts Courses

Per title 5 Section 55041, effective Fall 2013, students may not enroll more than four times in "active participatory courses that are related in content" in the areas of physical education or visual and performing arts, which includes art, dance, music, and theatre. This limitation applies even if a student receives a substandard grade or "W" during one or more of the enrollments in such a course or if the students petition for repetition due to extenuating circumstances.

Art courses that are related in content are grouped together in "families" of courses below. The families are indicated by their headings, e.g., Design, Basic Drawing, etc. For the most up-to-date listing of courses and families, refer to the online catalog, ***www.ccsf.edu/catalog****.*

Design

ART 125A. Basic Design: 2-D Foundations (3)
Lec-35, Lab-70, field trips
Introduction to visual perception, concepts, methods and applications of two-dimensional design across visual art disciplines and platforms. Self-expression and creative problem-solving through studio art projects. Lecture presentations, readings, verbal articulation, and critiques to develop visual literacy. Study of design theory with a focus on interdependence of content, form and context, combined with visual analysis of art from different eras and cultures. UC/CSU
C-ID ARTS 100
Formerly Basic Design. Art 125A and Art 130A may be taken in either order or concurrently. In-person sections will charge a $10.00 materials fee.
Offered every semester

ART 125B. Advanced Design: 3D Foundations (3)
Lec-35, Lab-70, field trips
Prereq: ART 125A
Recommended Prep:ART 130A
An introduction to the basic elements of three-dimensional form and design, including concepts and language fundamental to all art making. This course covers design innovation and prototyping while

applying the structural and visual elements of three-dimensional design, which applies to a wide range of artistic, technical, and industrial fields. UC/CSU
C-ID ARTS 101
Formerly Advanced Design: 3D
Offered Spring semesters

ART 126. Color (3)
Lec-35, Lab-70, field trips
A comprehensive course in the study of color, its sources, properties, theories and applications in additive and subtractive media. Develops conceptual and practical skills for effective visual communication utilizing color. Color mixing, color interaction, harmonies, contrasts, optical, spatial, psychological, subjective, cultural, historical uses of color are explored through creative projects. UC/CSU
C-ID ARTS 270
Offered Fall and Spring semesters

Drawing

ART 130A. Basic Drawing (3)
Lec-35, Lab-70, field trips
Recommended Prep: Completion of or concurrent enrollment in: ART 125A
A course in the theory and practice of drawing using a variety of media and subject matter. The student will develop drawing skills through the use of line, plane, tone, shape, form, volume, chiaroscuro and perspective. Group and individual instruction related to progressive assignments will encourage subjective and analytical development. UC/CSU
C-ID ARTS 110
Offered Fall and Spring semesters

ART 130B. Intermediate Drawing (3)
Lec-35, Lab-70, field trips
Prereq: ART 130A
Recommended Prep: ART 125A
Continued development of drawing skills via projects of greater complexity. This also includes additional approaches to drawing, composition, and varied drawing materials. This course is a member of the drawing family of courses. UC/CSU
C-ID ARTS 205
Offered Spring semesters

ART 130C. Advanced Drawing (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 130B
Building on the rigorous drawing studies of ART 130A and ART 130B, students will now focus on developing a self-directed creative process that is informed by research into the expressive, historical, personal, and contemporary aspects of media use and content development as applied in the creation of a series of related thematic drawings. UC/CSU
Offered Spring semesters

Figure Drawing

ART 132A. Beginning Figure Drawing (3)
Lec-35, Lab-70, field trips
Prereq: ART 130A
Recommended Prep: ART 125A
Introduction to the basic concepts of drawing the nude figure from life. Students develop a practical understanding of surface anatomy and proportions using a variety of media and techniques, acquire perceptual and critical thinking skills, and are introduced to the expressive potential of figurative drawing. UC/CSU
C-ID ARTS 200
ART 132A is strongly recommended for all art majors.
Offered Fall and Spring semesters

ART 132B. Intermediate Figure Drawing (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: ART 132A
Building on the previously acquired basic knowledge of drawing the nude figure from life, intermediate students will further develop their understanding of concepts and techniques of figure drawing, continue with more in-depth study of anatomy and proportion, and start working with color and experimental mixed-media approaches. UC/CSU
Offered Fall and Spring semesters

ART 132C. Advanced Figure Drawing (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 132B
Building on a rigorous study of drawing the nude figure from life, students will focus on developing a self-directed creative process, leading to advanced-level exploration of contemporary art issues and media, while creating a series of related figurative compositions. UC/CSU
Offered Fall and Spring semesters

ART 132D. Figure Drawing Special Topics (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 132C
Students will integrate advanced figure drawing skills with a focus on special topics such as portraiture, narrative art, mixed media or figurative mural art to develop a personal and expressive body of artwork in a medium of their choice. UC/CSU
Offered Fall and Spring semesters

Illustration

ART 136A. Introduction to Illustration (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 125A and ART 130A
Introduction to the professional field of illustration. Instruction will focus on principal areas within the field (Editorial, Advertising, Fashion, Fantasy and Scientific), its history, standards, practices and current trends. Students will explore and apply a variety of media and illustration techniques, while developing critical thinking, research, and problem solving skills. CSU
Offered Fall and Spring semesters

ART 136B. Intermediate Illustration (3)
Lec-35, Lab-70, field trips
Prereq: ART 136A
Further exploration of visual communication strategies as they relate to the field of illustration. Experimenting with wet and dry media, use of research, techniques and professional presentation in the development of personal style. Focus on professional problem-solving approach in the following areas: book illustration, graphic narrative, caricature, and character design. CSU
Offered Fall and Spring semesters

ART 136C. Advanced Illustration (3)
Lec-35, Lab-70, field trips
Prereq: ART 136B
Through exploration of varied media techniques, content, and experimentation with working methods, students will develop a

professional portfolio that can be applied towards transfer to university, art school or professional practice. Emphasis on creating self-directed artwork that connects working approach, style, and content with refinement of critical thinking, presentation, and technical skills. CSU
Offered Fall and Spring semesters

ART 139. Live Model Character Illustration (3)
Lec-35, Lab-70, field trips
Prereq: ART 130A
Recommended Prep: ART 132A
Develop unique character designs, engage in figurative storytelling, and work from live models as well as photographic resources. Focus on portraiture and facial expressions, dynamic gesture, and prolonged studies of models in costumes and theatrical settings with props using a variety of painting and drawing techniques in color media. UC/CSU
All sections will charge a material fee of $15.00.
Offered Spring semesters

Painting

ART 140A. Beginning Painting (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 125A and 130A
Studio course in the technical and conceptual basics of painting in oils or acrylics. Lectures, hands-on studio practice and critiques cover historical and contemporary methods, techniques, concepts, and perceptual skills of painting. UC/CSU
C-ID ARTS 210
Offered Fall and Spring semesters

ART 140B. Intermediate Painting (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 140A
Widens and deepens the skills, techniques, methods, and processes learned in ART 140A. Emphasis on personally expressive themes and content. Expanded materials, and complexity of techniques, and processes. UC/CSU
Offered Fall and Spring semesters

ART 140C. Advanced Painting (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 140B
Focus is on the formulation of a self-directed creative process that builds upon the skills, methods, and concepts of Intermediate Painting. Advanced painting techniques, materials, themes, concepts and critical skills are emphasized. Ideas are developed into finished works through long-term and series projects. UC/CSU
Offered Fall and Spring semesters

ART 140D. Painting Mastery (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 140C
This capstone course of the painting family supports students in developing greater technical expertise and further develop conceptual, analytical and material skills begun in Art 140C, while investigating issues specific to painting in order to transition into upper division university classes, private art schools, or as a means to enter the professional art world by approaching galleries, curators, art directors, artist registries with a fully developed body of work. UC/CSU
Offered Fall and Spring semesters

Mural Art

ART 142A. Mural Ideation to Creation I (3)
Lec-35, Lab-70, field trips
Prereq: ART 140A
Introduction to the history and techniques of mural painting. Traditional and contemporary mural techniques and themes will be explored through the creation of a mural project installed in a school or public space and collectively designed by the class. Students will develop the confidence and ability to work on a large scale, explore new avenues for your painting practice, build collaborative skills, and gain a global perspective on the art of mural painting. UC/CSU
Elective offered at the department's discretion

Watercolor

ART 145A. Beginning Watercolor Painting (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 125A and ART 130A
Introduction to the basic characteristics of watercolor, its physicality, tools, techniques, and history. Students will explore methods and techniques in order to develop an understanding of the medium. Emphasis will be placed on aptitude, artistic growth, and technical, perceptual, and conceptual skills to produce and analyze watercolor paintings. UC/CSU
Offered Fall and Spring semesters

ART 145B. Intermediate Watercolor (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 145A
Intermediate-level examination of watercolor painting characteristics. Students will explore methods and techniques in order to develop a deeper sensitivity to the medium. Focus on extending one's knowledge of color and texture. Emphasis on combining traditional and experimental approaches and the development of a personal style and subject matter. UC/CSU
Offered Fall and Spring semesters

ART 145C. Advanced Watercolor/Water Media (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 145B
Focus on development of a cohesive body of watercolor and water media paintings. Expanding upon watercolor skills with those related to acrylic, ink, and gouache. Emphasis will be placed on advanced development of a personal content and image style in which materials and techniques play an essential role. UC/CSU
Offered Fall and Spring semesters

ART 145D. Watercolor Special Topics (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 145C
Expanding upon advanced-level watercolor/water media techniques and idea development practices, students focus on creating a self-directed, unified body of artwork in order to successfully transfer to a university, art school, or professional practice. Emphasis on creating artwork that connects media, style, content, culture, and meaning. Refinement of critical thinking, presentation, and technical skills. UC/CSU
Offered Fall and Spring semesters

Chinese Brush Painting

ART 146A. Beginning Chinese Brush Painting (3)
Lec-35, Lab-70, field trips
Students will learn Chinese traditional calligraphy and brush painting through demonstrations, lectures, video and museum visits. Based on

studying a series of Chinese masterpieces of flowers, landscape and animals, students will develop academic, technical and creative skills. UC/CSU
Offered Fall and Spring semesters

ART 146B. Intermediate Chinese Brush Painting (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 146A
Emphasis is on the student's aesthetic and creative success in producing a portfolio of work for transfer and professional opportunities as well as the student's appreciation of Chinese art and culture. An intermediate brush painting course that focuses on the development of a body of work using varied classical and contemporary calligraphy and painting techniques. UC/CSU
Offered Fall and Spring semesters

ART 146C. Advanced Chinese Brush Painting (3)
Lec-35, Lab-70, field trips
Prereq: ART 146B or demonstration of exit skills
Emphasis will be placed on advanced development of a personal language and style in which materials and techniques play an essential role. An advanced brush painting course focusing on a self-directed creative process to build upon the skills, methods, and concepts of Intermediate Chinese Brush Painting. UC/CSU
Offered Fall and Spring semesters

ART 146D. Chinese Brush Painting Mastery (3)
Lec-35, Lab-70, field trips
Prereq: ART 146C or demonstration of exit skills
Emphasis on creating self-directed artwork that connects working approach, style, and content with refinement of critical thinking, presentation, and technical skill. This mastery level Chinese brush painting course expands upon ART 146C skills, concepts, and issues to produce a unified body of artwork for transfer to university, art school or professional practice. UC/CSU
Offered Fall and Spring semesters

Fine Arts Printmaking

ART 150A. Beginning Intaglio & Relief Printmaking (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 130A
Introduction to the basics of intaglio and relief printmaking with an emphasis on both contemporary and traditional aspects of the medium based on reference to historical, cultural and contemporary issues of the field. Various plate making and printing techniques will be explored as students develop their aesthetic skills and creative ideas. This course is part of the AA-T Studio Arts Major.
UC/CSU
C-ID ARTS 220
Offered Fall semesters

ART 150B. Intermediate Intaglio and Relief Printmaking (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 150A
This is an intermediate level intaglio and relief printmaking course which expands upon beginning level intaglio and relief plate making and printing techniques. As the second course of the Fine Arts Printmaking family, it is designed to strengthen problem solving skills while creating multi-layered, personal imagery that involves color. This course is part of the AA-T Studio Arts Major.
UC/CSU
Offered Fall semesters

ART 150C. Advanced Intaglio and Relief Printmaking (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 150B
This advanced intaglio and relief printmaking course expands upon intermediate plate making and printing techniques in support of innovative working styles and unique content that result in the creation of complex prints. The course emphasizes the layering of color and surface information using single and multiple plates. UC/CSU
Offered Fall semesters

ART 150D. Printmaking Special Topics (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 150C
Expanding upon advanced techniques, working methods, and idea development practices, students produce a unified body of artwork for that can be applied towards transfer to university, art school or professional practice. Emphasis on creating self-directed artwork that connects working approach, style, and content with refinement of critical thinking, presentation, and technical skill. UC/CSU
Offered Fall semesters

Screen Printing

ART 152A. Beginning Screen Printing (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 125A and ART 130A
An introduction to screen printing processes through exploration of hand-cut stencils, directly drawn stencils and photographic techniques for limited-edition and one-of-a-kind fine art prints. In the context of contemporary and traditional printmaking approaches, students develop their aesthetic, critical, and creative thinking skills. UC/CSU
Offered Spring semesters

ART 152B. Intermediate Screen Printing (3)
Lec-35, Lab-70, field trips
Prereq: ART 152A
Expanding upon the stenciling and photographic techniques introduced in ART 152A, this course covers various stencil creation techniques for exposure to photo-screens and ultimately multiple-color printing using single and multiple screens for limited-edition and one-of-a-kind fine art prints. In the context of contemporary and traditional printmaking approaches, students develop their aesthetic, critical, and creative thinking skills. UC/CSU
All sections will charge a material fee of $15.00.
Offered Spring semesters

ART 152C. Advanced Screen Printing (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 152B
In the context of contemporary and traditional printmaking approaches, students develop their aesthetic, critical, and creative thinking skills that expand upon photographic stencil and digital techniques introduced in ART 152A and 152B. Using various autographic, photographic and digital stencil creation techniques and multiple-color printing with single and multiple screens for limited-edition and one-of-a-kind fine art print.
UC/CSU
Offered Spring semesters

Mixed Media

ART 156A. Beginning Mixed Media (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 125A
Focuses on the contemporary practice and conceptual basis of selecting and combining various media and techniques into two and

three-dimensional works of art. Contemporary issues and approaches are explored through lecture and demonstration. UC/CSU
Formerly ART 156
Elective offered at the department's discretion

ART 156B. Intermediate Mixed Media (3)
Lec-35, Lab-70, field trips
Prereq: ART 156A
Building on the previously acquired knowledge of 156A, intermediate students will further develop their understanding and abilities to combine various media and techniques with the goal of creating two and three-dimensional works of art. Contemporary issues and approaches are explored through lecture and demonstration. UC/CSU
Elective offered at the department's discretion

Ceramics

ART 160A. Beginning Ceramics (3)
Lec-35, Lab-70, field trips
Introduction to developing ceramic forms. Basic methods of forming through the use of the potter's wheel, hand-construction, glaze application and kiln-firing processes. Historical uses of clay and its relationship to the development of civilizations and industry. Technical development and exploration of clay as a means for aesthetic growth. UC/CSU
Offered Fall and Spring semesters

ART 160B. Intermediate Ceramics (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 160A or demonstration of exit skills
Continued development of skills used to create ceramic forms using the potter's wheel, and hand-construction techniques, glaze formulation, glaze application, and kiln-firing processes. Lectures on the historical and contemporary uses of clay. Emphasis on technical and conceptual development of ceramic design. UC/CSU
Offered Fall and Spring semesters

ART 160C. Advanced Ceramics (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 160B
Advanced ceramic forming methods using the wheel, extruder and hand-construction techniques, glaze formulation, advanced glaze application and kiln-firing processes. Lectures on the historical and contemporary uses of clay. Emphasis on advanced technical and conceptual development. UC/CSU
Offered Fall and Spring semesters

ART 160D. Ceramics Studio (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 160C
Advanced-studio level class building on the skills, concepts and issues addressed in ART 160C. To refine analytical skills and technical expertise in the exploration of contemporary art and ceramics issues and create a self-directed, unified body of work in preparation for transferring to university, art school, or professional activities. UC/CSU
All sections will charge a material fee of $20.00
Offered Fall and Spring semesters

Sculpture

ART 170A. Beginning Sculpture (3)
Lec-35, Lab-70, field trips
Introduction to the design principals and elements of three-dimensional form, exposure to contemporary sculptural concepts, and the historical evolution of sculpture. Students will learn sculptural concepts, techniques, media, tools, and vocabulary in order to further develop visual perception and skills in additive and subtractive techniques. Emphasis will be placed on traditional materials, technical information, and personal expression. UC/CSU
Offered Fall and Spring semesters

ART 170B. Intermediate Sculpture (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 170A
An intermediate level course which expands on techniques and processes of sculpture such as: basic metal fabrication, mold-making, stone or woodcarving. Intermediate level topics such as site-specific sculpture or installation will also be explored. Emphasis will be placed on building and strengthening technical skills, individual expression and conceptual growth. UC/CSU
Offered Fall and Spring semesters

ART 170C. Advanced Sculpture (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 170B
Focuses on advanced techniques, practices and concepts specific to sculpture. Course is designed to cultivate individual conceptual development. Students produce artworks in a variety of materials, advanced fabrication techniques, and make aesthetic choices based on individual interest informed by research. Emphasis is placed on interplay between concept, material and context. UC/CSU
Offered Fall and Spring semesters

ART 170D. Sculpture Studio (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 170C
An advanced sculpture course designed to further individual conceptual development; enabling students to be self-directed, produce a body of work, investigate techniques and make aesthetic choices based on individual interests. An understanding of sculpture materials, fabrication techniques, formal relationships, art history, and safety procedures is necessary to enroll. UC/CSU
Offered Fall and Spring semesters

Metal Arts and Jewelry

ART 180A. Beginning Jewelry/Metal Arts (3)
Lec-35, Lab-70, field trips
An introduction to basic fabrication processes and design approaches, including use of tools and materials, soldering, cold connections, forming, stone setting, and basic 3-D design principles. Emphasis is placed on gaining technical skill, knowledge of safe practices, personal expression, and evolution of aesthetic sense. CSU
Offered Fall and Spring semesters

ART 180B. Intermediate Jewelry/Metal Arts (3)
Lec-35, Lab-70, field trips
Prereq: ART 180A
Building on previous experience, intermediate students will explore more advanced jewelry and metal smithing techniques including faceted stone setting, angle raising, kinetic junctions, and forging. Emphasis is placed on refining technical skill, development of tool use, knowledge of safe practices, personal expression, and refinement of aesthetic sense. CSU
Offered Fall and Spring semesters

ART 180C. Advanced Jewelry/Metal Arts (3)
Lec-35, Lab-70, field trips
Prereq: ART 180B.
Advanced students are provided with an opportunity to focus exploration on subjects of interest to the student. Subjects can include historic,

contemporary, one of a kind, or production jewelry/metal arts. The student will be highly self motivated and directed, ready to develop their work, concepts, and design capabilities. CSU
Offered Fall and Spring semesters

ART 180D. Metal Arts Studio (3)
Lec-35, Lab-70, field trips
Prereq: ART 180C
Capstone course building on the skills, concepts, issues addressed in ART 180C to create a self-directed, unified body of work in preparation for transferring to university, art school, or professional activities. Emphasis on refinement of analytical skills and technical expertise in the exploration of contemporary art and jewelry/metal arts issues. CSU
Offered Fall and Spring semesters

Lost Wax Casting

ART 181A. Beginning Casting for Metal Arts (3)
Lec-35, Lab-70, field trips
An introduction to basic casting techniques including direct and lost wax methods via the use of the centrifugal and vacuum casting machine, as well as use of the oxy/acetylene torch and electromelt furnace. Emphasis is placed on developing proficiency, thorough knowledge of safe practices, and development of 3-D design skills and personal aesthetic sense. CSU
Elective offered at the department's discretion

ART 181B. Intermediate Casting for Metal Arts (3)
Lec-35, Lab-70, field trips
Prereq: ART 181A
Building on beginning casting knowledge and skills, ART 181B students will incorporate traditional and nontraditional techniques to further develop the student's casting competency, including large scale casting, bi-metal casting, mold making and casting multiples. Emphasis is placed on creative risk taking, refining technical skill, knowledge of safe practices, developing content of work, and design aesthetic. CSU
Elective offered at the department's discretion

ART 181C. Advanced Casting for Metal Arts (3)
Lec-35, Lab-70, field trips
Prereq: ART 181B
Exploring subjects of interest that can include historic, contemporary, one of a kind, or production casting techniques, students hone working skills and ideation techniques. The course promotes sustainable self-motivation through time management approaches and analysis of working approaches, concept development, and design practices. CSU
Elective offered at the department's discretion

Portfolio

ART 185. Art Career/Transfer Portfolio Prep (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 136A or ART 130B or ART 132A or ART 140A or ART 145A or ART 146A or ART 150A or ART 152A or ART 156A or ART 160A or ART 170A or ART 180A or ART 181A or FASH 112 or FASH 35A or PHOT 51
Intensive survey of professional art practices that are necessary for a career as a visual artist. These practices include marketing, promoting, and exhibiting artwork, staging an exhibition, and preparing a transfer portfolio for a 4-year or graduate art program. CSU
Elective offered at the department's discretion

Asian American Studies

Office: Batmale 358
Phone Number: (415) 239-3865
Web Site: *www.ccsf.edu/asam*

Announcement of Curricula

Social Justice Studies: Asian American Studies Major (AA-T)

The Associate of Arts in Social Justice: Asian American Studies for Transfer Degree, (AA-T SJS Asian American Studies) prepares students for a seamless transfer with priority admissions and Junior class status to a CSU campus program or major in Asian American Studies, or similar major, for completion of a baccalaureate degree. The degree will also prepare Asian American Studies major students for transfer to a U.C. or other baccalaureate degree institution. Students should consult with a counselor to verify specific transfer requirements. Future careers might include teaching, social work, law, community organizing, public health, as well as graduate school or higher education.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify, describe, and compare the diverse historical experiences of different groups of Asian Pacific Americans in the United States
- Analyze and evaluate social, political, cultural and economic issues and conditions related to diverse Asian Pacific American communities in the United States, using appropriate social science methodologies and theories.
- Analyze the intersections of race, gender, class, ethnicity and sexuality within the Asian Pacific American experience.
- Use Asian American Studies scholarship and research methodologies to produce research papers.

Students who wish to earn the Associate in Arts in Social Justice Studies: Asian American Studies (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is four semesters; completion time will vary depending on student preparation and number of units completed per semester.

Courses Required for the AA-T in Social Justice Studies: Asian American Studies

Course . . . . . Units
Required Core 1: Race and Ethnicity (3 units)
IDST 37 Introduction to Ethnic Studies 3.0
Required Core 2: Introduction to Gender (3 units)
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified 3.0
Required Core 3: History (3 units)
ASAM 20 Asian American Experience Since 1820 . . . . . 3.0
Area 1: Humanities (3 units): Choose one course from the following list.
ASAM 6 Asian American Issues through Literature 3.0
ASAM 10 Asian American Popular Culture 3.0

ASAM 30 Asian American Issues Through Film 3.0
IDST 14 American Cultures in Literature and Film 3.0
IDST 46 Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania 3.0
MUS 26 Music in American Culture 3.0
PHST 30 Philippine Society and Culture Through Film 3.0

Area 2: Social Science and Area Studies (6 units) Chose two courses from the list below.

ASAM 8 Filipino American Community. 3.0
ASAM 22 Community Issues & Leadership 3.0
ASAM 27 Asian American Race Relations 3.0
ASAM 35 Asian American Women 3.0
ASAM 40 Chinese American Community 3.0
ASAM 42 Southeast Asians in the U.S.: Experience and Culture 3.0
BCST 104 Race and Media 3.0
HIST 45 LGBT American History 3.0
IDST 45 Pacific Islanders in the United States 3.0
LBCS 88 California Labor History 3.0
LGBT 50 LGBT Communities of Color in the U.S. 3.0
PHST 20 The Filipino Family 3.0
PHST 40 Contemporary Issues in the Filipino Diaspora. 3.0
POLS 12 Ethnic Politics in the United States 3.0
PSYC 23 Psychology of Race and Ethnic Relations 3.0

Total: 18.0

Asian American Studies Major (AA)

The Associate of Arts in Asian American Studies examines the diverse experience of Asians in the United States through core courses and additional electives in the Humanities, Social Sciences, Area Studies and other interdepartmental courses. In Humanities, students explore Asian American issues in popular culture, film or literature. In Social Sciences, students choose to explore a specific group in the Asian American community in depth, or explore race relations, or community work. Students are prepared for transfer to University of California, and other universities, especially for majors in Asian American Studies and Ethnic Studies, which are often majors not impacted at some UC campuses.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the diverse experiences of Asian Pacific Americans in the United States.
- Examine the social, political, cultural and economic conditions of Asian Pacific Americans in the United States.
- Analyze the intersections of race, gender, class, ethnicity, and sexuality within the Asian Pacific American experience.
- Apply appropriate theories and methodologies to understanding the Asian Pacific American experience.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is 4 semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Asian American Studies

Course . . . . . Units

Choose 3 of the following courses

ASAM 20 Asian American Experience Since 1820 . . . . . 3.0
ASAM 22 Community Issues & Leadership 3.0
ASAM 23 Asian Americans and American Ideals and Institutions 3.0
ASAM 35 Asian American Women 3.0

Choose 1 of the following humanities courses

ASAM 6 Asian American Issues through Literature 3.0
ASAM 10 Asian American Popular Culture 3.0
ASAM 30 Asian American Issues Through Film 3.0

Choose 1 of the following social science/area studies courses

ASAM 8 Filipino American Community. 3.0
ASAM 27 Asian American Race Relations 3.0
ASAM 40 Chinese American Community 3.0
ASAM 42 Southeast Asians in the U.S.: Experience and Culture 3.0
ASAM 61 Asian American Community Field Study . . . . . 3.0 – 4.0

Choose 1 of the following elective courses (or any course not selected above):

ASAM 65 Individual Study in Asian American Studies 3.0
HIST 45 LGBT American History 3.0
IDST 14 American Cultures in Literature and Film 3.0
IDST 37 Introduction to Ethnic Studies. 3.0
IDST 45 Pacific Islanders in the United States 3.0
IDST 46 Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania 3.0
LBCS 88 California Labor History 3.0
LGBT 50 LGBT Communities of Color in the U.S. 3.0
MUS 26 Music in American Culture 3.0
PHST 20 The Filipino Family 3.0
PHST 30 Philippine Society and Culture Through Film 3.0
PHST 40 Contemporary Issues in the Filipino Diaspora. 3.0
POLS 12 Ethnic Politics in the United States 3.0
PSYC 23 Psychology of Race and Ethnic Relations 3.0

Total: . . . . . 18.0 – 19.0

Asian American Studies Certificate

The Certificate of Achievement in Asian American Studies explores the diverse Asian American experience in the United States. Students will gain a theoretical, aesthetic, and methodological understanding of the complex experience of different groups of Asians in the United States. This certificate is designed for students who wish to pursue additional specialization in Asian American Studies and Ethnic Studies and for professionals in the public, non-profit, and private sector who want to be more effective in their careers by learning more about the diversity of the Asian American community.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the diverse experiences of Asian Pacific Americans in the United States.
- Analyze the intersections of race, class, gender, and sexuality affecting different groups of Asian Pacific Americans in the United States.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Asian American Studies

Course	Units
Required	
ASAM 20 Asian American Experience Since 1820	3.0
Choose 9 units from the following	
ASAM 1 Introduction to Asian American Studies	3.0
ASAM 6 Asian American Issues through Literature	3.0
ASAM 8 Filipino American Community	3.0
ASAM 10 Asian American Popular Culture	3.0
ASAM 22 Community Issues & Leadership	3.0
ASAM 23 Asian Americans and American Ideals and Institutions	3.0
ASAM 27 Asian American Race Relations	3.0
ASAM 30 Asian American Issues Through Film	3.0
ASAM 35 Asian American Women	3.0
ASAM 40 Chinese American Community	3.0
ASAM 42 Southeast Asians in the U.S.: Experience and Culture	3.0
PHST 40 Contemporary Issues in the Filipino Diaspora	3.0
IDST 45 Pacific Islanders in the United States	3.0
Total:	**12.0**

Announcement of Courses

Credit, Degree Applicable Courses:

ASAM 1. Introduction to Asian American Studies (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This introductory Ethnic Studies course explores experiences of Asian American communities from the 19th century to the present. Students examine historical and current Asian American issues, using frameworks including Critical Race Theory, analyzing race, ethnicity, gender, sexuality, socioeconomic class, labor, national origin, mixed heritages, religion/spirituality, generation, and ability, colonialism, decolonization, immigration, activism and resistance. CSU
Elective offered at the department's discretion

ASAM 6. Asian American Issues through Literature (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introductory course examines long term and emergent issues in different genres of Asian American literature. Ethnic Studies themes such as race, dislocation, displacement, nation, home, self-determination, gender, class, and sexuality will be considered. Analyzing literature, applying Ethnic Studies theory to critical events, histories, cultures, and intellectual and literary traditions, with special focus on the lived experiences, social struggles, and contributions of Asian Americans. UC/CSU
Elective offered at the department's discretion

ASAM 8. Filipino American Community (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Ethnic Studies introduction to experiences, histories, and contributions of Filipina/o Americans, past and present. Examination of US history and government through lived-experiences, critical events, political and social struggles of Filipina/os, immigrant and US born. Self-determination, liberation, white supremacy, US colonial and neocolonial history, immigration, economic and educational opportunities, family, community, political and social heritage. Community produced theory and knowledge. UC/CSU
Elective offered at the department's discretion

ASAM 10. Asian American Popular Culture (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This introductory Ethnic Studies course examines how Asian Americans have turned to a wide range of cultural productions such as music, performance arts, visual culture, film, digital/internet cultures, and transnational productions to engage in antiracist and anti-colonial practices, contesting and reconstructing ethnic and racial identity for a just and equitable society. UC/CSU
Offered every semester

ASAM 20. Asian American Experience Since 1820 (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introductory Ethnic Studies examination of United States history and government through the experience of immigrant groups from China, Japan, Korea, the Philippines, and India. Topics include immigration experiences, economic opportunities, culture, family, community, and political and social history. Local field trip may be required. UC/CSU
Offered Fall and Spring semesters

ASAM 22. Community Issues & Leadership (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This Ethnic Studies class is an introductory examination of contemporary Asian American movements, community leadership, organizations, civic participation, and public policy. Overview of antiracist and anti-colonial issues and the practices and movements in Asian American communities for a just and equitable society. UC/CSU
Elective offered at the department's discretion

ASAM 23. Asian Americans and American Ideals and Institutions (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An Ethnic Studies introduction to Asian Pacific American groups in the United States and their long term experience with basic governmental ideals and institutions, at the national, state and local levels. Examine the impact of Asians, Asian American agency, group-affirmation, struggle, and resistance on legal-constitutional America and the countervailing impact of race and racism and political-legal structures imposed on different groups of Asians by U.S., California, and local governments. UC/CSU
Offered Fall and Spring semesters

ASAM 27. Asian American Race Relations (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introductory Ethnic Studies exploration of race relations between Asian Americans, African Americans, Latin Americans and European Americans. Utilizing theories and knowledge produced by Asian

American communities, theories of race and interaction, and considerations such as class, economics, inequities and social struggle. UC/CSU
Elective offered at the department's discretion

ASAM 30. Asian American Issues Through Film (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This Ethnic Studies course is an introduction to both historical and contemporary themes in Asian American film. Beginning chronologically with early intersectional representations of race, gender and sexuality, the course moves towards new representations, knowledge and theory in films made by and about Asian Americans. This course will survey a broad range of films, including narrative, documentary, and diasporic cinema. UC/CSU
Offered Fall and Spring semesters

ASAM 35. Asian American Women (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to experiences, struggles, & contributions of Asian American women, with multi-disciplinary Ethnic Studies approach including history, humanities, sociology, political science, Women's and Gender Studies, Asian American Studies, and arts. Exploring theory, knowledge, creative expression by Asian American women, emphasizing agency. Intersectional analysis of race & racism, sexism, classism, homophobia, immigration, labor, sexualities & culture in the lives of Asian American women. UC/CSU
Elective offered at the department's discretion

ASAM 40. Chinese American Community (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Description and analysis of the Chinese American community. The historical background, family and district organizations, power structure, immigrants, cultural pattern and conflicts, and the socioeconomic problems of the Chinese American community. UC/CSU
No knowledge of Chinese required
Elective offered at the department's discretion

ASAM 42. Southeast Asians in the U.S.: Experience and Culture (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Ethnic Studies introduction to U.S. Southeast Asian communities from Vietnam, Laos, and Cambodia, experiences and contributions to social, political, economic institutions at local, state, national levels. Indigenous cultural heritage and historic experiences of refugees, immigrants, and lived-experiences and struggles of U.S. born. U.S. colonialism and neocolonialism, immigration, racism, opportunity, family, community, political, social heritage. Community produced theory and knowledge. UC/CSU
Formerly Southeast Asians in the U.S.
Elective offered at the department's discretion

ASAM 61. Asian American Community Field Study (2-4)
Work-120-300 P/NP available
Prereq: Approval of the Asian American Studies Department
Repeat: Repeated up to 16.00 Units
Community work experience in a project in Asian American Studies subject to the approval and under the supervision of an Asian American Studies instructor. One unit of credit is earned for each 60 hours of unpaid, or 75 hours of paid work. CSU
Elective offered at the department's discretion

ASAM 65. Individual Study in Asian American Studies (3)
Lab-157.5, field trips P/NP available
Recommended Prep: Successful completion of a course in Asian American Studies
Supervised individual or group study on topics and issues in Asian American Studies subject to the approval and under the supervision of an Asian American Studies instructor. CSU
UC upon review
Elective offered at the department's discretion

Asian Studies

Office: Art 304
Phone Number: (415) 452-5304
Web Site: *www.ccsf.edu/asianst*

Announcement of Curricula

Asian Studies Certificate

This certificate introduces students to the diversities and commonalities of Asian cultures and society, focusing primarily on arts, religion, languages, popular culture and history of the regions of East Asia, South East Asia, and The Middle East. The program integrates area studies and ethnic studies, using interdisciplinary methodologies. It appeals to a broad range of students including international students, students interested in tourism or global business, artists, and students wanting to know more about their cultures of origin. The program serves primarily students who are transferring to a four-year university, but additionally offers professional development for employers, as well as community-based organizations serving global audiences.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify specific cultural areas of Asian civilizations from pre-colonization to twenty-first century and evaluate their contributions to the development of distinct artistic traditions.
- Interpret Asian religious and ethnic formations in relation to socio-political trends.
- Identify the cultural areas of modern Asia and their contributions to modern and postmodern aesthetics.
- Compare the unique features of Asian languages, writing forms, and arts embedded in culture.

The Asian Studies Certificate of Accomplishment is open to any student enrolled at City College of San Francisco.

The minimum time for completion of this certificate is two semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Asian Studies

Course	Units
Choose one of the following Arts courses	
ASIA 11 East Asian Calligraphy: An Introduction	3.0
ART 104 Asian Art History	3.0
Choose two of the following Humanities courses	
ASIA 15 Asian Societies and Cultures through Film	3.0
ASIA 30 Manga and Anime	3.0
IDST 27B Asian Humanities: Contemporary	3.0

Choose one of the following Social and Behavioral Science courses
IDST 30 Demystifying the Middle East 3.0
IDST 31 Women and Gender in the Middle East 3.0

Choose one of the following elective courses
Choose a course listed above not previously selected or one of the following elective courses
or CHIN 33 Chinese Culture for Heritage Learners . . . 3.0
CHIN 38 Translation Foundation in Chinese 3.0
JAPA 39 Japanese Culture and Civilization 3.0
MUS 24 Music of East Asia 3.0

Total: 15.0

Announcement of Courses

Credit, Degree Applicable Courses:

ASIA 11. East Asian Calligraphy: An Introduction (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This introductory course examines historical development and cultural aspects of East Asian calligraphy. Course emphasizes Chinese Hanzi characters, but also includes the Japanese Kana syllabary, and the Korean Han'gul alphabet. Includes analysis of their relation with East Asian philosophy, religion, literature, and arts. UC/CSU

ASIA 15. Asian Societies and Cultures through Film (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course explores religious and cultural traditions, and socio-cultural issues in East Asia, India, and Southeast Asia. Examines ethnic diversity, cultural differences, family structures, marriage systems, colonization, social inequality, socio-political backgrounds, and historical roots through classic and contemporary Asian films and films about Asian societies and culture. UC/CSU

ASIA 30. Manga and Anime (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An examination and analysis of Japanese comics (manga) and animation (anime), and the role they play in Japanese culture as artistic forms of expression, an industry, and as representations of history and contemporary social conditions. UC/CSU

ART 104. Asian Art History (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the artistic heritages of Asia from the Neolithic period to the present. Painting, sculpture, architecture, and crafts will be examined within their historical, political, and socio-cultural background. Students learn to identify styles, recognize techniques and formal visual elements, and critically analyze artwork within its contextual framework. UC/CSU
C-ID ARTH 130
Offered Fall and Spring semesters

ART 146A. Beginning Chinese Brush Painting (3)
Lec-35, Lab-70, field trips
Students will learn Chinese traditional calligraphy and brush painting through demonstrations, lectures, video and museum visits. Based on studying a series of Chinese masterpieces of flowers, landscape and animals, students will develop academic, technical and creative skills. UC/CSU
Offered Fall and Spring semesters

ART 146B. Intermediate Chinese Brush Painting (3)
Lec-35, Lab-70, field trips
Recommended Prep: ART 146A
Emphasis is on the student's aesthetic and creative success in producing a portfolio of work for transfer and professional opportunities as well as the student's appreciation of Chinese art and culture. An intermediate brush painting course that focuses on the development of a body of work using varied classical and contemporary calligraphy and painting techniques. UC/CSU
Offered Fall and Spring semesters

ART 146C. Advanced Chinese Brush Painting (3)
Lec-35, Lab-70, field trips
Prereq: ART 146B or demonstration of exit skills
Emphasis will be placed on advanced development of a personal language and style in which materials and techniques play an essential role. An advanced brush painting course focusing on a self-directed creative process to build upon the skills, methods, and concepts of Intermediate Chinese Brush Painting. UC/CSU
Offered Fall and Spring semesters

ART 146D. Chinese Brush Painting Mastery (3)
Lec-35, Lab-70, field trips
Prereq: ART 146C or demonstration of exit skills
Emphasis on creating self-directed artwork that connects working approach, style, and content with refinement of critical thinking, presentation, and technical skill. This mastery level Chinese brush painting course expands upon ART 146C skills, concepts, and issues to produce a unified body of artwork for transfer to university, art school or professional practice. UC/CSU
Offered Fall and Spring semesters

Chinese Language Courses: See Chinese in this section of the catalog.

CHIN 39. Major Achievements of Chinese Thought and Culture (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A consideration of the humanistic tradition of China and the major achievements of Chinese culture as reflected in language, literature, art, religion and daily life. UC/CSU
No knowledge of Chinese required. Not recommended for students who are enrolled in or who have completed CHIN 49.
Offered on occasion

HIST 35A. Chinese History (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Intellectual, social, political, and economic development of China. Chinese history from ancient times to the Qing Dynasty, approximately 1900. UC/CSU
HIST 35A covers from ancient times to approximately 1900.
Offered on occasion

HIST 35B. History of China (3)
Lec-52.5 P/NP available
Intellectual, social, political, and economic development of China from 1900 to the present. Emphasis is on twentieth-century China,

concentrating on the rise of nationalism and Communist rule on the Mainland. UC/CSU
HIST 35A not prerequisite to 35B. HIST 35B covers from 1900 to the present.
Offered on occasion

HIST 37. History of the Philippines (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
This course covers the historical development of the Philippines from the pre-colonial period to present day. The evolution of national culture, political and social institutions, and foreign relations will also be examined. UC/CSU

IDST 14. American Cultures in Literature and Film (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary survey of literary and cinematic works of fiction, drama, non-fiction and poetry that investigates unity in diversity in the shifting trajectories of American identities and interrelationships. Groups featured to assess their interactive contributions to American cultures include Native-, European-, African-, Latin-, Asian-Americans, and Pacific Islanders. UC/CSU
Offered on occasion

IDST 27B. Asian Humanities: Contemporary (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Survey of Asian cultures of modern to contemporary period, especially Arabic-Islamic, Indian, Chinese and Japanese cultures. Emphasis on literature, philosophy, religion, and the arts. Provides an interdisciplinary and cross-cultural approach to the differences and underlying unity of Asian cultures. UC/CSU
IDST 27A is not prerequisite to 27B. No knowledge of foreign languages required.
Offered on occasion

IDST 29. Islam: Identity & Culture (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary survey of Muslim identity and the origins, principles, and practices of Islam, comparing and contrasting them with those of other major religions. Focus on the historical development and current practices of Islam and its impact on philosophy, art, music, architecture, gender, media, popular culture, and politics. UC/CSU
Offered on occasion

IDST 30. Demystifying the Middle East (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This interdisciplinary survey of South West Asia and North Africa (the Middle East) introduces students to the historical, cultural, and religious diversity of the region, highlighting contributions in various disciplines, including science, art, music, and literature. It also examines U.S. involvement, representation, media, current political discourse and activism in the region and in diaspora. UC/CSU
Offered Fall and Summer semesters

IDST 31. Women and Gender in the Middle East (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary examination of differences/similarities in women's lives in the Muslim/Arab world, including the diaspora, and among minorities in the Middle East/Southwest Asia and North Africa (SWANA). Analysis includes diversity, colonization, nationalism, religion, gender, sexuality, family, law, literature, music, art and film. UC/CSU
Offered on occasion

IDST 45. Pacific Islanders in the United States (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines Pacific Islander migrations to the United States mainland including the history, culture, and politics of Hawai'i and U.S. Pacific territories. It explores indigenous cultures and American experiences of Pacific Islanders from Guam, American Samoa, Palau, Marshall Islands, Fiji, Samoa, Tonga, Tahiti, New Zealand, and Australia. UC/CSU
Cross listed with ETHN 45.
Offered on occasion

IDST 46. Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of traditional and contemporary art across Oceania (Pacific Islands). Emphasis on literature, dance, music, visual arts, film, and museums. Using an interdisciplinary and cross-cultural approach, the course explores the underlying unity of Pacific cultures, including their engagement with both western and non-western societies, colonization, and diasporic communities. UC/CSU
Offered Fall and Spring semesters

IDST 80A. Diversity and Social Justice: Racism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of race-based oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about racism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80C. Diversity and Social Justice: Sexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness raising analysis and evaluation of sexism on individual, institutional, and cultural levels in the United States. Expanding one's knowledge about sexism, increasing personal awareness of one's own sexism and assumptions, and the application of this knowledge and awareness for individual and social change are emphasized. CSU
Offered Fall semesters

IDST 80D. Diversity and Social Justice: Heterosexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of homophobia and heterosexism (discrimination based on perceived or real sexual orientation and identity) oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about heterosexism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80E. Diversity and Social Justice: Ableism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of ableism (disability-based oppression) on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about ableism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80F. Diversity and Social Justice: Class and Classism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of class oppression and classism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about class, class oppression and classism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

IDST 80G. Diversity and Social Justice: Transphobia (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of transphobia and gender oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about transphobia and gender diversity, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 81B. Diversity and Social Justice: Anti-Semitism/Anti-Arabism (1)
Lec-18 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of anti-Semitism and anti-Arabism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about anti-Semitism and anti-Arabism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

Japanese Language Courses: See Japanese in this section of the catalog.

JAPA 39. Japanese Culture and Civilization (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A consideration of the major achievements of Japanese culture as reflected in language, literature, art, religion, and daily life. No knowledge of Japanese required. UC/CSU
No knowledge of Japanese language required. Not recommended for students who are enrolled in or have completed JAPA 49.
Offered on occasion

LGBT 50. LGBT Communities of Color in the U.S. (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the histories, power dynamics, intersectionalities, cultures, communities and resistance of LGBTQ+ Black, Latinx, Chicanx, Indigenous and API people in the U.S. UC/CSU
Formerly Lesbian/Gay/Bisexual/Transgender/Communities of Color in the U.S.
Offered Spring semesters

MUS 24. Music of East Asia (3)
Lec-52.5, field trips P/NP available
A cross-cultural, comparative survey of both historical and recent developments in the music of China, Japan, and Korea, including the relationship of East Asian music to other aspects of East Asian cultures-philosophy, religion, theater, and dance. UC/CSU

PSYC 23. Psychology of Race and Ethnic Relations (3)
Lec-52.5 P/NP available
An exploration of the experiences, theories, and research concerning issues of race and ethnicity as they relate to individual and group behavior, emotion, and thinking, including attitudes, identity development, racism, privilege, coping strategies, and intersectional experiences. Psychohistorical analysis of the experiences of African Americans, Asian Americans, Latino(a) Americans, and Native Americans. UC/CSU

Astronomy

Office: Science 400
Phone Number: (415) 239-3242
Web Site: *www.ccsf.edu/astro*

Announcement of Courses

Credit, Degree Applicable Courses

ASTR 1. Cosmic Evolution (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Introductory astronomy course with an emphasis on the development of the cosmos and its components. The origin, evolution, and final state of our physical universe. Properties, formation, and evolution of our galaxy and other galaxies, the sun and other stars, and our solar system. Extrasolar planets and the possibility of life elsewhere in the universe. UC/CSU
Offered Fall and Spring semesters

ASTR 4. Life in the Universe (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The origin and evolution of life on Earth and the possibility of life elsewhere in the Universe. Applying the disciplines of astronomy, biology, and planetary science, students study the chemical and biological basis for life, limits of life on Earth, and techniques used to search for life beyond Earth. UC/CSU
Offered Fall and Spring semesters

ASTR 16. Observational Astronomy (1)
Lab-52.5
Prereq: Completion of or concurrent enrollment in: ASTR 1 or ASTR 17 or ASTR 18 or ASTR 19
Recommended Prep: Readiness for college-level English or ESL 188
Through direct investigation, students will examine the motion and appearance of the night sky, characterize and classify astronomical objects such as planets, moons, stars, nebulae, and galaxies, and become familiar with modem observational tools and techniques. UC/CSU
Offered Fall and Spring semesters

ASTR 17. Planets (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Methods and practice of planetary science and its impact on humanity. Fundamental physical sciences for understanding the origin and evolution of planetary systems. Comparative examination of planetary attributes including atmospheres, geospheres, magnetospheres, and hydrospheres. Solar System and extra-solar planetary systems and life-bearing possibilities. Detailed planetary information revealed by space missions. UC/CSU
Offered Fall and Spring semesters

ASTR 18. Stars (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to stars and stellar systems, including their apparent motions and their use in navigation. Observations and theories regarding stars as the primary producers of energy in the universe and of the chemical elements necessary for life. Evolution of stars and their impact within galaxies and on planets. UC/CSU
Offered Spring semesters Offered Fall and Spring semesters

ASTR 19. Galaxies and the Universe (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to cosmology, galactic and extragalactic astronomy, with a focus on basic questions of existence: Where do we come from and what is our fate? Covers the universe's origin, evolution, fate, expansion and acceleration, cosmological models explaining these, large scale structure, dark matter and dark energy, properties and phenomena of galaxies, including the Milky Way and active galactic nuclei. UC/CSU
Offered Fall and Spring semesters

Automotive/Motorcycle, Construction, and Building Maintenance

Office: 1400 Evans
Phone Number: (415) 550-4409
Web Site: *www.ccsf.edu/autotech*

Announcement of Curricula

City College offers credit for two years of pre-apprentice training for students seeking employment in the automotive industry. Students may apply the earned credit toward the Associate in Science degree.

Employment. Successful completion of training in this program prepares students for entry employment in the areas of automotive-mechanic and body person apprenticeship. Training will be considered in determining level of entry into apprenticeship.

Admission. Applicants for admission must complete an application form which may be obtained from the automotive-technology adviser at 1400 Evans Avenue training center. All applications are reviewed and evaluated, and the results are forwarded to each applicant. To be accepted into the program, it is recommended that students complete the following advisories:

1. ESL 186 or ENGL 88 or readiness for college-level English
2. Math 30 or placement in Math 40

Recommended High School Preparation. Preparation is recommended in auto shop, electricity, machine shop, mechanical drawing, and welding.

Counseling. The automotive-technology advisor consults individually with students in order to help each student select a program best suited to the student's interests and abilities.

General Education. Instruction in general education is included so that students may satisfy the College graduation requirements in this area.

Associate in Science Degree. Students who wish to earn an Associate in Science degree must complete the general-education requirements for graduation from the College and additional electives. Students who satisfy these requirements and complete either of the options in the Curriculum receive the degree of Associate in Science in Automotive Technology. Such students are advised to consult with a College counselor.

Automotive Technology

Automotive Technician Major (AS)

This Automotive Technician Associate in Science Degree prepares students to enter the automotive maintenance field with all the necessary skills to perform entry level work, as well as have a thorough understanding of theory so they will be qualified to participate in advanced training at the dealer level. This program complies with national Automotive Service Excellence (ASE) certification through the accreditation body National Automotive Teachers Education Foundation (NATEF), through which the Automotive department is required to maintain certification every five years.

Learning Outcomes

Upon completion of this program, students will be able to:

- Classify and summarize automotive systems, functions, and their interrelation.

- Identify and use basic hand, power, lifting tools, and equipment.
- Perform scheduled automotive maintenance and repairs, and utilize service repair information.
- Analyze automotive wiring diagrams and troubleshoot computer circuits and systems.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Automotive Technician

Course	Units
Required	
AUTO 50 Intro to Automotive Mechanics	3.0
AUTO 51 Automotive Electrical	7.0
Choose two courses from the following	
AUTO 52 Brakes, Suspension, Alignment	7.0
AUTO 53 Automatic & Manual Transmission	7.0
AUTO 54 Engine Repair	7.0
AUTO 55 Engine Performance and Drivability	7.0
AUTO 56 Introduction to Hybrid and EV Auto Maintenance and Repair	4.0
AUTO 58 Automotive Heating and Air-Conditioning	3.0
AUTO 59 Automotive Suspension and Steering	4.0
AUTO 63 Automotive Braking Systems	4.0
AUTO 115 Service Consultant	3.0
Total:	**16.0 – 24.0**

Automotive Hybrid and EV Technology Certificate

This certificate is for students seeking training in hybrid and electric vehicle maintenance. This certificate includes instruction in basic automotive systems (AUTO 50), a thorough understanding of automotive electrical systems (AUTO 51), and an in depth study of hybrid and electric vehicles, system operation, inspection, diagnosis and repair (AUTO 56). Prepares the student for entry-level employment in the maintenance and repair of existing and emerging technology hybrid and electric vehicles.

Learning Outcomes

Upon completion of this program, students will be able to:

- Distinguish and classify automotive systems, functions, and their interrelation.
- Demonstrate safe shop practices and operate diagnostic equipment.
- Describe the function of vehicle electrical, hybrid, and battery systems and components.
- Analyze and repair existing and emerging hybrid and electric vehicles.
- Evaluate innovative fuel saving vehicle systems.

Students must complete each course with a grade of "C" or higher.

Students may apply for certificate having completed course work or equivalent standards within the past 5 years.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Automotive Hybrid and EV Technology

Course	Units
Required courses:	
AUTO 50 Intro to Automotive Mechanics	3.0
AUTO 51 Automotive Electrical	7.0
AUTO 56 Introduction to Hybrid and EV Auto Maintenance and Repair	4.0
Total:	**14.0**

Automotive Technician Certificate

This Automotive Technician Certificate of Achievement prepares students to enter the automotive maintenance field with all the necessary skills to perform entry level work as well as have a thorough understanding of theory so they will be qualified to participate in advanced training at the dealer level. This program complies with our national Automotive Service Excellence (ASE) certification through the accreditation body: National Automotive Teachers Education Foundation (NATEF), through which the Automotive department maintains certification every five years.

Learning Outcomes

Upon completion of this program, students will be able to:

- Classify and summarize automotive systems, functions, and their interrelation.
- Identify and use basic hand, power, lifting tools, and equipment.
- Perform scheduled automotive maintenance and repairs, and utilize service repair information.
- Analyze automotive wiring diagrams and troubleshoot computer circuits and systems.

The minimum time for completion is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Automotive Technician

Course	Units
Required	
AUTO 50 Intro to Automotive Mechanics	3.0
AUTO 51 Automotive Electrical	7.0
Choose two courses from the following	
AUTO 52 Brakes, Suspension, Alignment	7.0
AUTO 53 Automatic & Manual Transmission	7.0
AUTO 54 Engine Repair	7.0
AUTO 55 Engine Performance and Drivability	7.0
AUTO 56 Introduction to Hybrid and EV Auto Maintenance and Repair	4.0
AUTO 58 Automotive Heating and Air-Conditioning	3.0
AUTO 59 Automotive Suspension and Steering	4.0
AUTO 63 Automotive Braking Systems	4.0
AUTO 115 Service Consultant	3.0
Total:	**16.0 – 24.0**

Utility Technician/Helper Certificate

This certificate is for students seeking entry level employment in the automotive industry. This certificate includes instruction in basic automotive systems, automotive body and paint maintenance and detailing.

Learning Outcomes

Upon completion of this program, students will be able to:

- Evaluate overall vehicle condition.
- Perform basic automotive repairs.

Students may apply for certificate having completed course work or equivalent standards within the past 5 years.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Utility Technician/Helper

Course	Units
Required courses	
AUTO 49 Auto Body Maintenance and Detailing	2.0
AUTO 50 Intro to Automotive Mechanics	3.0
Total:	**5.0**

Auto Body Technology

Autobody Repair and Refinishing Major (AS)

This Autobody Repair and Refinishing Associate of Science Degree prepares students to enter the auto body repair field with all the necessary skills to perform entry level work, as well as providing a thorough understanding of auto body and paint theory. This credential provides education to work safely in an independent or dealership auto body repair facility with a good foundation for advanced training and skill development.

The AS degree may be obtained by completion of the required program plus general education requirements and sufficient electives to meet a 60 unit total.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify auto body safety requirements and employ proper safety actions.
- Use appropriate tools, equipment, and supplies to perform autobody repairs to industry quality standards
- Interpret auto body service repair information and evaluate service measurements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Autobody Repair and Refinishing

Course	Units
First semester required courses:	
AUTO 49 Auto Body Maintenance and Detailing	2.0
AUTO 200 Auto Body Dent and Damage Repair	2.0
AUTO 203 Introduction to Auto Painting and Refinishing	2.0
Choose 12 units from the following elective courses:	
AUTO 50 Intro to Automotive Mechanics	3.0
AUTO 58 Automotive Heating and Air-Conditioning	3.0
AUTO 201 Bolted Panel Replacement	2.0
AUTO 202 Welded panel repair and replacement	2.0
AUTO 204 Body/Frame Straightening & Repair	2.0
AUTO 205 Auto Body Welding	2.0
AUTO 206 Plastic Repair & Refinishing	2.0
AUTO 115 Service Consultant	3.0
MOTO 61 Custom Metal Fabrication	3.0
MOTO 63 Auto-Moto Custom Painting	4.0
Total:	**18.0**

Autobody Repair and Refinishing Certificate

This Autobody Repair and Refinishing Certificate of Achievement prepares students to enter the auto body repair field with all the necessary skills to perform entry level work, and provides them with a thorough understanding of auto body and paint theory. This credential provides education to safely work in an independent or dealership auto body repair facility with a good foundation for advanced training and skill development.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify auto body safety requirements and employ proper safety actions.
- Use appropriate tools, equipment, and supplies to perform autobody repairs to industry quality standards
- Interpret auto body service repair information and evaluate service measurements.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Autobody Repair and Refinishing

Course	Units
First semester required courses	
AUTO 49 Auto Body Maintenance and Detailing	2.0
AUTO 200 Auto Body Dent and Damage Repair	2.0
AUTO 203 Introduction to Auto Painting and Refinishing	2.0
Choose 12 units from the following elective courses:	
AUTO 50 Intro to Automotive Mechanics	3.0
AUTO 58 Automotive Heating and Air-Conditioning	3.0
AUTO 201 Bolted Panel Replacement	2.0
AUTO 202 Welded panel repair and replacement	2.0
AUTO 204 Body/Frame Straightening & Repair	2.0
AUTO 205 Auto Body Welding	2.0
AUTO 206 Plastic Repair & Refinishing	2.0
AUTO 115 Service Consultant	3.0
MOTO 61 Custom Metal Fabrication	3.0
MOTO 63 Auto-Moto Custom Painting	4.0
Total:	**18.0**

Motorcycle Technology

Motorcycle Technician Major (AS)

This Motorcycle Technician Associate in Science Degree prepares students to enter the motorcycle maintenance field with all the necessary skills to perform entry-level work as well as to have a thorough understanding of theory so they will be qualified to participate in advanced training at the dealer or manufacturer. Degree holders are

expected to be qualified for jobs as service managers and manufacturer's representatives.

Associate in Science Degree. The AS Degree may be obtained by completion of the required program plus general education requirements and sufficient electives to meet a 60 unit total.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the history, culture, and aesthetics of the motorcycle.
- Perform basic tune-up and service operations and interpret maintenance schedules.
- Evaluate, service, and troubleshoot cooling, lubrication, and fuel systems.
- Practice safe shop and personal safety procedures.

Assuming students start this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Motorcycle Technician

Course	Units
First semester required courses:	
MOTO 90 Introduction to Motorcycle Technology	4.0
Choose at least 14 units from the following elective courses	
MOTO 500 Bicycle Maintenance	3.0
MOTO 61 Custom Metal Fabrication	3.0
MOTO 63 Auto-Moto Custom Painting	4.0
MOTO 91 Motorcycle General Service	4.0
MOTO 92 Tune-up, Electrical and Performance	4.0
MOTO 93 Engine & Power Train Repair	4.0
Total:	**18.0**

Motorcycle Technician Certificate

This Motorcycle Technician Certificate of Achievement prepares students to enter the motorcycle maintenance field with all the necessary skills to perform entry-level work as well as to have a thorough understanding of theory so they will be qualified to participate in advanced training at the dealer or manufacturer. Certificate holders are expected to be qualified for jobs as service managers and manufacturer's representatives.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the history, culture, and aesthetics of the motorcycle.
- Perform basic tune-up and service operations and interpret maintenance schedules.
- Evaluate, service, and troubleshoot cooling, lubrication, and fuel systems.
- Practice safe shop and personal safety procedures.

The minimum time for completion is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Motorcycle Technician

Course	Units
First semester required courses:	
MOTO 90 Introduction to Motorcycle Technology	4.0
Choose at least 14 units from the following elective courses	
MOTO 500 Bicycle Maintenance	3.0
MOTO 61 Custom Metal Fabrication	3.0
MOTO 63 Auto-Moto Custom Painting	4.0
MOTO 91 Motorcycle General Service	4.0
MOTO 92 Tune-up, Electrical and Performance	4.0
MOTO 93 Engine & Power Train Repair	4.0
Total:	**18.0**

Construction

Construction Major (AS)

This Construction Associate in Science Degree prepares students to enter the construction field with all the necessary skills to perform entry-level work as well as have a thorough understanding of theory so they will be qualified to participate in advanced training. Students completing this Associates Degree will be qualified for employment in companies both union and non-union where construction skills are called upon.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify basic OSHA (Occupational Safety and Health Administration) requirements and employ proper safety actions.
- Use appropriate tools and materials to plan and execute construction projects.
- Apply construction skills to a variety of construction projects.
- Describe concepts and components of construction fields and building trades.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Majot in Construction

Course	Units
Required	
CNST 100 Introduction to Construction Applications	3.0
Choose at least 15 units from the following courses	
CNST 77 OSHA 30	2.5
CNST 103 Residential Plumbing	3.0
CNST 107 Blueprint Reading	3.0
CNST 108 Contractor License Preparation	3.0
CNST 109 Residential Wiring	4.0
CNST 111 Carpentry Rough Framing	3.0
CNST 112 Carpentry-Advanced Framing	3.0
CNST 113 Finish Carpentry	3.0
CNST 114 Custom Cabinetmaking	3.0
CNST 116 Furniture Making & Woodworking	3.0
CNST 118A Adv. Project Furniture Making I	3.0
CNST 118B Adv. Project Furniture Making II	3.0
Total:	**18.0**

Carpentry Certificate

This certificate provides training in the nomenclature, methods, and materials necessary to build a complex wood framed building, including framing of floors, walls, ceilings, roofs, and stairways. This

certificate includes required instruction in appropriate safety practices and procedures, basic blueprint reading, construction principles, procedures, tools, and equipment, basic carpentry nomenclature, and hands-on tool usage and framing skills. Additional elective coursework is required in one or more of the following areas: advanced framing, concrete, woodworking, finish carpentry, contractor license preparation, and drywall skills. Students completing this certificate program will be qualified for employment in companies both union and non-union where carpentry or woodworking skills are needed.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify basic OSHA (Occupational Safety and Health Administration) requirements and employ proper safety actions.
- Use appropriate tools to plan construction projects accurately.
- Describe and evaluate different framing systems and the materials required for building plan specifications.
- Apply construction skills to a variety of rough and finish construction projects.
- Analyze and evaluate floor plans and their interconnected systems.

Students must pass each class with a grade of "C" or higher.

Students may apply for a certificate having completed course work or equivalent standards within the past 5 years.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Carpentry

Course	Units
Required	
CNST 69 Construction Safety	1.0
CNST 100 Introduction to Construction Applications	3.0
CNST 107 Blueprint Reading	3.0
CNST 111 Carpentry Rough Framing	3.0
Choose 3 units from the following courses	
CNST 112 Carpentry-Advanced Framing	3.0
CNST 113 Finish Carpentry	3.0
CNST 116 Furniture Making & Woodworking	3.0
CNST 118A Adv. Project Furniture Making I	3.0
CNST 108 Contractor License Preparation	3.0
Total:	**13.0**

Construction Certificate

This Construction Certificate of Achievement prepares students to enter the construction field with all the necessary skills to perform entry level work as well as have a thorough understanding of theory so they will be qualified to participate in advanced training. Students completing this certificate will be qualified for employment in both union and non-union companies where construction skills are needed.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify basic OSHA (Occupational Safety and Health Administration) requirements and employ proper safety actions.
- Use appropriate tools and materials to plan and execute construction projects.
- Apply construction skills to a variety of construction projects.
- Describe concepts and components of construction fields and building trades.

The minimum time for completion is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Construction

Course	Units
Required (First Semester)	
CNST 100 Introduction to Construction Applications	3.0
Choose at least 13 units from the following courses	
CNST 77 OSHA 30	2.5
CNST 103 Residential Plumbing	3.0
CNST 107 Blueprint Reading	3.0
CNST 108 Contractor License Preparation	3.0
CNST 109 Residential Wiring	4.0
CNST 111 Carpentry Rough Framing	3.0
CNST 112 Carpentry-Advanced Framing	3.0
CNST 113 Finish Carpentry	3.0
CNST 114 Custom Cabinetmaking	3.0
CNST 116 Furniture Making & Woodworking	3.0
CNST 118A Adv. Project Furniture Making I	3.0
CNST 118B Adv. Project Furniture Making II	3.0
Total:	**16.0**

Construction Certificate of Completion

This certificate of completion validates training in tool, equipment, personal safety, use of proper and appropriate materials and supplies, and proper handling of diverse power tools. Students successfully completing this certificate will be qualified for entry-level construction and building maintenance employment.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply construction terminology and units of measurement to complete construction tasks.
- Manage tools, equipment, and materials safely and appropriately.
- Apply recommended practices to the use of construction tools, machines, and specialized equipment.
- Interpret and explain workplace instructions.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Completion in Construction

Course	Hours
Required	
CNST 1000 Introduction to Construction	145.0
Choose one of the following courses:	
CNST 8800 Applied Trades Math	52.5
ESLV 3832 ESL for Construction Workers	85.0
TRST 4600 Vocational Foundation Skills-Reading and Writing	30.0 – 90.0
Total:	**175.0 – 235.0**

Building Maintenance/Custodial

Custodian for Health Care Industry Certificate of Completion

Students who have successfully earned a Custodial Health Care Certificate are qualified to work in the healthcare industry as a custodian.Training includes biohazard and blood-borne pathogen safety procedures in a variety of environments. These can include hospitals, emergency rooms, labs, and doctors' offices. The program was created in cooperation with local hospitals and agencies.

Learning Outcomes

Upon completion of this program, students will be able to:

- Select and safely handle appropriate equipment and materials.
- Apply custodial terminology and instructions when engaging in custodial tasks
- Interpret and explain workplace instructions
- Apply industry-standard techniques and approved procedures while cleaning healthcare sites and disposing of waste.

The minimum time for completion of this certificate is two semesters. Completion time will vary based on student preparation and or classes completed per semester.

Courses Required for the Certificate of Completion in Custodian for Health Care Industry

Course . . . . . Hours
Choose one of the following language courses
ESLV 4816 ESL for Custodians 85.0
TRST 4600 Vocational Foundation Skills-Reading and Writing . . . . . 30.0 – 90.0
Required courses:
TICU 9540 Custodial Training 108.0
TICU 9551 Custodial Training for Healthcare Workers 105.0
Total: . . . . . .243.0 – 303.0

Custodial Training Certificate of Completion

This certificate of completion validates training in tool, equipment, chemical and personal safety, use of proper and appropriate cleaning and maintenance equipment and supplies, and proper handling of diverse chemicals Students successfully completing this certificate will be qualified for entry level custodial and building maintenance employment.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply custodial terminology, directions, units of measurement and instructions to complete custodial tasks.
- Manage chemicals and toxic waste safely and appropriately.
- Apply recommended practices to the use of custodial tools, machines, and specialized equipment.
- Interpret and explain workplace instructions.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Completion in Custodial Training

Course . . . . . Hours
Choose one of the following language courses:
ESLV 4816 ESL for Custodians 85.0
TRST 4600 Vocational Foundation Skills-Reading and Writing . . . . . 30.0 – 90.0
Required courses:
TICU 9540 Custodial Training 108.0
Total: . . . . . 138.0 – 198.0

Announcement of Courses

Automotive Technology

Credit, Degree Applicable Courses:

AUTO 49. Auto Body Maintenance and Detailing (2)
Lec-17.5, Lab-52.5, field trips P/NP available
Recommended Prep: ESL 188 or readiness for college-level English
Introductory course on general vehicle body maintenance, minor body part replacement and adjustment, glass replacement, and exterior and interior detailing. CSU

AUTO 50. Intro to Automotive Mechanics (3)
Lec-35, Lab-70
Recommended Prep: Readiness for college-level English or ESL 186
Introduction to automotive systems, industry best practices, basic vehicle fluid and wheel services, and safety practices. Orientation to the automobile: technical vocabulary, systems, components, safety procedures, proper use of appropriate tools and equipment, and development of hands-on skills. Basic maintenance and repair of the automobile in accord with Automotive Service Excellence (ASE) certification. CSU

AUTO 51. Automotive Electrical (7)
Lec-97, Lab-97, field trips
Prereq: AUTO 50 or pass Challenge Test
This course prepares students to diagnose and repair automotive electrical systems. Includes specialized training in the use of electrical meters, scopes and electrical testing equipment. Preparation for the Automotive Service Excellence (ASE) A-6 test. CSU

AUTO 52. Brakes, Suspension, Alignment (7)
Lec-97, Lab-97, field trips
Prereq: AUTO 50 or pass Challenge Test
This course prepares students to diagnose and repair automotive brake and suspension systems. Includes specialized training in the use of Hunter alignment machines, tire mounting and road force tire balancing equipment. Preparation for the Automotive Service Excellence (ASE) A-4 and A-5 tests. CSU
Offered Spring semesters

AUTO 53. Automatic & Manual Transmission (7)
Lec-97, Lab-97, field trips
Prereq: AUTO 50 or pass Challenge Test
This course prepares students to diagnose and repair automotive manual and automatic transmission units. Includes specialized training in the use of specialized lifts and factory scantools. Preparation for the Automotive Service Excellence (ASE) A-2 and A-3 tests. CSU
Offered Fall semesters

AUTO 54. Engine Repair (7)
Lec-97, Lab-97, field trips
Prereq: AUTO 50 or pass Challenge Test
This course prepares students to diagnose and repair automotive engines. Includes specialized training in the use of specialized

measuring devices and assembly equipment. Preparation for the Automotive Service Excellence (ASE) A-1 test. CSU
Offered Spring semesters

AUTO 55. Engine Performance and Drivability (7)
Lec-97, Lab-97, field trips
Prereq: AUTO 50 or pass Challenge Test
This course prepares students to diagnose and repair automotive drivetrain control systems. Includes specialized training in the use of factory scan tools and electronic automotive diagnostic equipment. Preparation for the Automotive Service Excellence (ASE) A-8 and L1 tests. CSU
Offered Fall semesters

AUTO 56. Introduction to Hybrid and EV Auto Maintenance and Repair (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Prereq: AUTO 50 and AUTO 51
Principles and functions of hybrid automobiles, and procedures for their maintenance, problem diagnosis and repair. Function of individual system components examined. Critical importance of safety and hybrid-unique equipment and procedures. Maintenance procedures and diagnostic and repair processes for common hybrids (Toyota and Ford) taught in detail. CSU
Offered on occasion

AUTO 58. Automotive Heating and Air-Conditioning (3)
Lec-35, Lab-70, field trips
Prereq: AUTO 50
Learners will study the history, principles of operation, environmental concerns, scientific principles, mechanical components, diagnosis, servicing and testing, system controls, retrofit of old systems, and future trends of automotive HV AC systems. Preparation for Automotive Service Excellence (ASE) A-7 Test. CSU
Offered Fall semesters

AUTO 59. Automotive Suspension and Steering (4)
Lec-52.5, Lab-52.5, field trips
Prereq: AUTO 50
This course prepares students to diagnose and repair automotive tire, wheel, suspension and steering systems. Includes specialized training in the use of Hunter alignment, tire mounting and tire balancing equipment. Preparation for the Automotive Service Excellence (ASE) A-4 test. CSU

AUTO 60. Independent Study (Auto Technology) (1-3)
Lab-52.5 to 157.5 P/NP available
Prereq: AUTO 50 or demonstration of exit skills
Research and application of advanced skills within the topic of Automotive/Trade Skills. Allows student to investigate subjects of special interest and develop skills toward those interests, such as frame design and fabrication, suspension design and fabrication, engine performance modification and reflash of engine computer. CSU
Offered on occasion

AUTO 63. Automotive Braking Systems (4)
Lec-52.5, Lab-52.5
Prereq: AUTO 50
This course prepares future technicians to perform automotive brake system repair with an understanding of operation, troubleshooting, and preventive maintenance, including disk brakes, drum brakes, anti-lock, and stability control systems. Preparation for the ASE Brakes test (A-5 test) CSU

AUTO 68. Introduction to Diesel Technology (3)
Lec-35, Lab-70, field trips
Prereq: AUTO 50
Prepares students for careers in diesel engine repair. Theory of operation and hands-on practice repairing diesel engines. Preparation for the Automotive Service Excellence (ASE) A9 examination. CSU

AUTO 108. Automotive Work Experience (1-6)
Work: 75-450 (total hrs) P/NP available
Prereq: AUTO 50
Repeat: Repeated up to 6.00 Units
Paid work experience in the automotive industry under the supervision of a qualified professional. Positions can include dealership technician, independent shop technician and automotive shop office work. Student will attend an initial training and apply to job opportunity with no guarantees of being hired. CSU
Offered Spring semesters

AUTO 115. Service Consultant (3)
Lec-52.5, field trips P/NP available
Prereq: AUTO 50 or demonstration of exit skills
Techniques and practices for creating automotive service orders. Training in industry best practices and legal requirements of creating automotive service orders. Training for career as automotive service writer. Preparation for ASE C1 test. CSU
Offered on occasion

AUTO 117. Subaru Technical Training (2)
Lec-35, Lab-22, field trips
Prereq: Completion of or concurrent enrollment in: AUTO 50
Subaru specific online and hands-on training to prepare students to repair Subaru vehicles. CSU

AUTO 180. Reflashing and Factory Scan Tools for Technicians (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: AUTO 50
This course prepares students to use factory scan tools to troubleshoot, diagnose, and repair next generation automobiles. In-depth study of factory scan tool use includes module scanning and reflashing. CSU

AUTO 200. Auto Body Dent and Damage Repair (2)
Lec-17.5, Lab-52.5 P/NP available
Recommended Prep: AUTO 50
Basic introduction to welding, metal bumping, metal finishing, and plastic filling. Students will learn analysis of minor body and fender damage and the sequential procedures involved in proper metal damage repair by integrating their classroom gained knowledge with shop practice. CSU
Offered on occasion

AUTO 201. Bolted Panel Replacement (2)
Lec-17.5, Lab-52.5 P/NP available
Recommended Prep: AUTO 50
This course concerns the methods and techniques of fastening and joining metal and plastic parts as they relate to a professional fit and finish on vehicle body and frame structures, including alignment of metal and plastic parts. CSU
Offered Fall semesters

AUTO 202. Welded panel repair and replacement (2)
Lec-17.5, Lab-52.5 P/NP available
Recommended Prep: AUTO 50
This course involves the various methods and techniques of repairing

or cutting, fastening, and joining of metals and metal parts as they relate to vehicle body and frame structures, including plasma arc cutting, electric spot, MIG (Metal Inert Gas), gas welding, brazing, and epoxy-joining processes. CSU
Offered Fall semesters

AUTO 203. Introduction to Auto Painting and Refinishing (2)
Lec-17.5, Lab-52.5 P/NP available
Recommended Prep: AUTO 50
This course is designed as an introduction to automotive urethane, polyurethane and water based refinishing. It includes a comprehensive study of the materials, equipment, techniques and processes in the successful application of each of the automotive refinishing materials by integrating classroom gained knowledge with shop practice. This course is required for the Auto body Painting and Refinishing certificate. CSU
Offered on occasion

AUTO 204. Body/Frame Straightening & Repair (2)
Lec-17.5, Lab-52.5 P/NP available
Recommended Prep: AUTO 50
This course concerns the study and repair of conventional and unitized vehicle frames, their straightening and alignment, alignment at cross members, rear and side frame members, suspension systems and steering principles. Frame straightening machines, gauges, and tools as well as appropriate safety will be covered. CSU
Offered Spring semesters

AUTO 205. Auto Body Welding (2)
Lec-17.5, Lab-52.5 P/NP available
Recommended Prep: AUTO 50
In this course students will learn how to identify and work with different types of welding equipment used in the installation of welded panels. They will also learn various methods of welding, brazing, soldering and plasma arc cutting of thin auto body material. CSU
Offered Spring semesters

AUTO 206. Plastic Repair & Refinishing (2)
Lec-17.5, Lab-52.5 P/NP available
Recommended Prep: AUTO 50
This course concerns the techniques of repairing, replacing, and refinishing the many types of plastic and fiberglass parts now being used in auto body construction. Many plastics can be heated, reshaped, repaired and refinished using a variety of different methods. CSU
Offered on occasion

Motorcycle Technology

Credit, Degree Applicable Courses:

MOTO 61. Custom Metal Fabrication (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: AUTO 205
Intermediate course to develop the skills necessary to cut, shape, weld, and fabricate various types of metal products from raw materials. Usage of MIG (Metal Inert Gas), TIG (Tungsten Inert Gas), gas welding, English Wheel, Power Hammer, and various other metal shaping equipment and techniques will be presented. CSU
Offered on occasion

MOTO 63. Auto-Moto Custom Painting (4)
Lec-52.5, Lab-52.5, field trips
Recommended Prep: AUTO 203
This creative spray painting and custom graphics course introduces students to a process of transforming imagination into a unique vehicle appearance. This course is part of the motorcycle certificate series and a more advanced auto body painting and refinishing course. CSU

MOTO 90. Introduction to Motorcycle Technology (4)
Lec-52.5, Lab-52.5 P/NP available
This course provides entry to the motorcycle technician series. Overview of the history and culture of motorcycles, industry vocabulary and language, safety, tools, theory of operation, and the basic use of hand tools in shop-related projects and electronic diagnostic equipment. "Soft" skills of customer relations and "hard" skills of hands-on technical training. CSU

MOTO 91. Motorcycle General Service (4)
Lec-52.5, Lab-52.5 P/NP available
Prereq: MOTO 90
This course covers the principles, theory of operation, design and functions of motorcycle, fuel, lubrication, frame, suspension, brakes and cooling systems including skills necessary for inspection, disassembly, cleaning, measuring and rebuilding the components and perform preventive maintenance, troubleshooting discrepancies, repairing system components and selecting after market parts. CSU
Offered Spring semesters

MOTO 92. Tune-up, Electrical and Performance (4)
Lec-52.5, Lab-52.5 P/NP available
Prereq: MOTO 90
This course builds on the basic maintenance learned in Moto 90, adding motorcycle tune-up, troubleshooting, and performance tuning; electrical principles and components; and generation, regulation, distribution, control, switching and testing of electrical systems. Learn many aspects of scheduled maintenance, troubleshooting, and repair problems associated with electronic ignition, fuel management, and on-board computer systems. CSU
Offered Spring semesters

MOTO 93. Engine & Power Train Repair (4)
Lec-52.5, Lab-52.5 P/NP available
Prereq: MOTO 90
This course trains students in the theory of operation, troubleshooting, major overhaul, and general repairs of motorcycle engines and power trains. CSU
Offered Fall semesters

MOTO 500. Bicycle Maintenance (3)
Lec-35, Lab-70, field trips
Course in basics of bicycle and electric bicycle repair and maintenance. Students will learn how to perform maintenance such as repairing flat tires, adjusting derailleurs, chain maintenance, Basic electric system troubleshooting and safety inspection. Rebuilding of wheel, steerer, and bottom brackets bearings will be covered. Frame modifications, wheel-building/truing, and various electric bike services will also be covered. Emphasis on "hands on" implementation and practice. CSU

Construction

Credit, Degree Applicable Courses:

CNST 69. Construction Safety (1)
Lec-17.5 P/NP available
A study of Occupational Safety and Health Administration requirements for the construction industry, leading to an ability to identify safety hazards and prevent accidents. Students who successfully

complete the course with a "B" or better have the option to apply to the state for an OSHA 10 hour Construction Safety Certificate. CSU
Upon successful completion of this course, "C" or better, students will also have the options to obtain an OSHA 10 card for a small filing fee.

CNST 77. OSHA 30 (2.5)
Lec-45
CAL-OSHA 30 training: Industry Standards for regulations covered by the Occupational Safety and Health Administration (OSHA) Standards for the Construction Industry. CSU
Upon successful completion of this course, "C" or better, students will also have the option to obtain an OSHA 30 card for a small filing fee.

CNST 88. Practical Mathematics for Trades (3)
Lec-52.5, field trips P/NP available
Applied competency-based course designed to prepare students entering the construction, automotive, or custodial trades. Practical applications to trades math will prepare students for trades tests, success in content classes, and work in the field. CSU
Formerly Practical Mathematics for Construction Trades

CNST 100. Introduction to Construction Applications (3)
Lec-35, Lab-70, field trips P/NP available
Recommended Prep: CNST 69 or possession of OSHA 10 Certificate
Overview of trades, design and management occupations connected to building projects. Introduction to use of project documents, plans and specifications. Introduces relevant green technologies in the construction field. Practice in using measuring, hand, and power tools. Hands-on use of tools and materials to complete group projects. CSU

CNST 103. Residential Plumbing (3)
Lec-35, Lab-70, field trips P/NP available
Recommended Prep: CNST 100 or CNST 69
An introductory course in the methods and materials necessary to install a residential plumbing system. This course offers hands-on practice in the installation of supply, Drain/Waste/Vent (DWV), and gas systems. CSU

CNST 107. Blueprint Reading (3)
Lec-35, Lab-70, field trips P/NP available
Recommended Prep: CNST 100; ET 108A
This course teaches the skills for reading a variety of construction plans, details, schedules and specifications. The course is a beginning course, yet also enhances skills of those who have existing knowledge of construction drawings. CSU

CNST 107A. Practical Blueprint Reading (1)
Lec-9, Lab-26 P/NP available
This course teaches the basic skills of reading blueprints and specifications. CSU
Offered Spring semesters

CNST 108. Contractor License Preparation (3)
Lec-52.5 P/NP available
Recommended Prep: CNST 100 and CNST 107; or demonstrated understanding of construction principals or experience in the construction industry, and the ability to interpret plans and specifications
Principles for managing a construction business, California Contractor Licensing Law, worker's compensation, construction bonds, labor code, employee relations, safety, construction contracts, fiscal responsibility, scheduling, construction documents, plans, specifications, and the estimating process. CSU
Offered on occasion

CNST 109. Residential Wiring (4)
Lec-52.5, Lab-52.5 P/NP available
Coreq: CNST 100
Recommended Prep: CNST 136
Introduction to basics of residential wiring practices which includes identifying required circuits, load calculations for a circuit and for a service, and the principles of grounding and bonding. The hands-on portion of the course includes best practices for the installation of energy efficiency devices and equipment, as well as the wiring and testing of such gear as heat pumps, occupancy sensors, mini splits and instantaneous water heaters. CSU

CNST 111. Carpentry - Rough Framing (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: CNST 69 or CNST 100
An introductory course in the methods and materials necessary to build a wood framed building. This course offers hands-on practice in the framing of simple floors, walls, ceilings, roofs, and stairways. CSU

CNST 112. Carpentry-Advanced Framing (3)
Lec-35, Lab-70 P/NP available
Prereq: CNST 111
Recommended Prep: CNST 69 and CNST 100
An advanced course in the methods, materials and seismic requirements necessary to build a wood framed building. This course offers hands-on practice in the framing of more complicated floors, walls, ceilings, roofs, stairways and decks. CSU
Offered Spring semesters

CNST 113. Finish Carpentry (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: CNST 69 or CNST 100 or CNST 1069
A course in the methods, materials, and installation techniques necessary to install doors, paneling, countertops, cabinets, crown moulding, baseboard, chair rail, picture rails and similar trim. This course offers hands-on practice in the fine craftsmanship required for finish work. CSU
Offered Fall semesters

CNST 114. Custom Cabinetmaking (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: CNST 100; CNST 1069
Introductory course in the basics of custom cabinetmaking and installation from simple "standalone" cabinets to complete wall-to-wall bookcases and kitchens, as well as stand-alone furniture-grade casework. Approaches and techniques of designing, constructing and installing custom casework including: Face-frame, European, and Die-wall construction; drawer making, associated material and hardware use. CSU

CNST 116. Furniture Making & Woodworking (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: CNST 69
Designed to prepare students for entry-level work or to upgrade their existing skills in woodworking. Course has a hands-on focus that covers safety procedures, furniture design, hand and machine tools, materials identification and applications, fabrication processes, and project planning. CSU

CNST 118A. Advanced Project Furniture Making I (3)
Lec-35, Lab-70 P/NP available
Prereq: CNST 116
Individualized project-based course designed for advanced-level students in furniture making, incorporating the furtherance of those skills (safety, project planning, design, hand and machine tools, material knowledge) acquired in the basic CNST 116 course. CSU

CNST 118B. Advanced Project Furniture Making II (3)
Lec-35, Lab-70 P/NP available
Prereq: CNST 118A
Individualized project-based course designed as a continuation to CNST 118A for advanced-level students in furniture making, incorporating the furtherance of those skills (safety, project planning, design, hand and machine tools, materials knowledge) acquired in CNST 116 and CNST 118A. CSU

CNST 125. Drywall Hanging and Finishing (1.5)
Lec-17.5, Lab-35 P/NP available
Recommended Prep: CNST 100 and CNST 69
Introductory course in the techniques and applications of hanging, taping and applying smooth and textured finishes. CSU

CNST 132. Fundamentals of Refrigeration for Industrial Maintenance (4)
Lec-52.5, Lab-52.5 P/NP available
Basic principles and operation of industrial refrigeration systems; refrigeration cycle, Environmental Protection Agency (EPA) laws and regulations for safe refrigerant handling. CSU

CNST 133. Sales and Marketing Photovoltaics (1.5)
Lec-24, Lab-12
Prereq: Completion of or concurrent enrollment in: CNST 121
Best practices for marketing strategies based on California and federal incentives and to represent a photovoltaic system's performance to a client. CSU

CNST 134. Electrical-Mechanical Fundamentals (4)
Lec-52.5, Lab-52 P/NP available
Fundamentals of electricity and magnetism as they apply to the training of refrigeration technicians. Hands on work with transformers, solenoids, relays, motor starters, and single and three phase hermetic motors and motor control circuits. CSU

CNST 136. Electrical Circuits (4)
Lec-52.5, Lab-52.5 P/NP available
Introduction to basic electrical terms and principles. Includes the design, construction and testing of basic alternating currents (AC) and direct currents (DC) in series, parallel and combination circuits. CSU

Noncredit Courses:

CNST 1000. Introduction to Construction (145 hrs)
Overview of trades, design and management, occupations connected to building projects. Introduction to use of project documents, plans and specifications, as well as relevant green technologies in the construction field. Practice with measuring and using hand and power tools.

CNST 1069. Construction Safety (17.5 hrs)
A study of Occupational Safety and Health Administration requirements for the construction industry, leading to an ability to identify safety hazards and prevent accidents. It covers safety issues as they apply to general construction . Also, the subject matter is tailored to specific occupations/trades and to safety issues in our construction courses. Students who successfully complete the course with a "B" or better have the option to apply to the state for a lifetime OSHA 10 hour Construction Safety Certificate.

CNST 8800. Applied Trades Math (52.5 hrs)
Applied competency-based course designed to prepare students entering the construction, automotive, or custodial trades. Practical applications to trades math will prepare students for trades tests, success in content classes, and work in the field.

Custodial

Noncredit Courses:

TICU 5000. Custodial Supervisor Training Course (108 hrs)
Prereq: TICU 9540 or at least two years of custodial experience
This CCSF Custodial Supervisor Training Course covers aspects of managing two or more employees. Geared toward students who have been a custodian/janitor for two years or more and who want to get to the next level in their career.
Next class to take after TICU 9550 and TICU 9551.

TICU 9540. Custodial Training (108 hrs)
Preparation for entry level employment as a custodian. Training in safety, use of tools, equipment, chemicals, materials and supplies, and the proper application of dusting, sweeping, mopping, use of ladders, scaffolds, various floor machines and specialized equipment.

TICU 9551. Custodial Training for Healthcare Workers (105 hrs)
Recommended Prep: TICU 9550; ESLV 3816
Safety practices, procedures, tools, equipment and supplies required by a healthcare custodian (healthcare porter). Hands-on training in the methods and materials as they relate specifically to a healthcare environment and in topics covered on the civil service exam required for employment in San Francisco's medical centers. Preparation for custodial work in any medical office or nursing home.

Biological Sciences

Office: Science 304
Phone Number: (415) 239-3645
Web Site: *www.ccsf.edu/biology*

Announcement of Curricula

(For courses and programs in Biotechnology, see Engineering and Technology.)

Biology Major (AS-T)

Biology is the scientific study of life through the observation of structure, function, reproduction, growth, origin, evolution, and behavior of living organisms and their relation to each other and their environment. Biologists have deepened our understanding of processes and interactions on all levels of biological organization from elucidating cellular processes to fight cancer to also assessing interactions in communities that might help prevent the extinction of species. Studying biology provides a background for students to evaluate and understand new discoveries and to make informed decisions about the use of scientific knowledge to benefit all living organisms. The Associate of Science in Biology for Transfer (AS-T) prepares students for upper-division biology courses, including general biology, cell or molecular biology, organism biology, marine biology, botany, zoology, ecology, evolution, genetics, anatomy, physiology, microbiology, and agricultural

sciences. The AS-T in Biology is designed to prepare students for transfer to a baccalaureate degree program in biology, particularly at the California State University system.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interrelate the scientific method, scientific research and established scientific knowledge.
- Communicate scientific hypotheses, theories, and findings.
- Summarize major scientific and mathematical concepts necessary for a foundation in biological sciences.
- Apply laboratory skills fundamental to biological investigations.
- Analyze and interpret scientific data relevant to a foundation in biological sciences.

Degree Requirements. Students who wish to earn the Associate in Science in Biology for Transfer must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for completion of either IGETC for STEM or CSU GE for STEM and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. The IGETC for STEM and CSU GE for STEM options permit students completing the AS-T in Biology to follow the IGETC or CSU GE curriculum but delay one Arts or Humanities course and one Social or Behavioral Science course until after transfer. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AS-T in Biology

Course	Units
Required core courses:	
BIO 100A General Biology	5.0
BIO 100B General Biology	5.0
Chemistry Requirements:	
CHEM 101A General College Chemistry	6.0
CHEM 101B General College Chemistry	5.0
Choose one of the following Calculus courses:	
MATH 110A Calculus I	5.0
MATH 100A Short Calculus I	3.0
Complete one of the following Physics series:	
OPTION 1:	
PHYC 2A Introductory Physics I	3.0
PHYC 2AL Introductory Physics Laboratory	1.0
PHYC 2B Introductory Physics II	3.0
PHYC 2BL Introductory Physics Laboratory	1.0
OPTION 2:	
PHYC 4A Classical Mechanics for Scientists and Engineers	3.0
PHYC 4AL Mechanics Laboratory for Scientists and Engineers	1.0
PHYC 4B Electromagnetism for Scientists and Engineers	3.0
PHYC 4BL Electromagnetism Laboratory for Scientists and Engineers	1.0
Recommended optional elective courses (not required)	
CHEM 208A Chemical Structure and Reactivity I	4.0
CHEM 208B Chemical Structure/Reactivity II	4.0
BIO 10 Animal Biology	4.0
BIO 12 Plant Biology	4.0
BIO 19 Ecology	4.0
BIO 20 Introduction to Ecology	3.0
BIO 32 Marine Biology	3.0
and BIO 32L Marine Biology Laboratory	1.0
BIO 108 General Human Anatomy	4.0
BIO 111 Human Physiology	5.0
BIO 112 Introduction to Human Physiology	4.0
BIO 120 Introduction to Microbiology	4.0
BIO 132 Introduction to Nutrition	3.0
BIO 134 Introduction to Nutrition for Health Sciences	3.0
Total:	**32.0 – 34.0**

Biological Sciences Major (AS)

CCSF's Biological Sciences major offers basic courses in chemistry and biology to serve students with diverse goals, including transfer to biology programs at U.C., C.S.U. or other four-year institutions. Biological Sciences majors will be able to take most or all of their lower division courses at CCSF before they transfer but should see a counselor to confirm their program of study. Additional courses might be required to transfer to particular institutions. The Biological Sciences major is suitable for students planning to transfer into programs in the biological sciences, including general biology, cell or molecular biology, organism biology, marine biology, botany, zoology, ecology, evolution, genetics, anatomy, physiology, microbiology, and agricultural sciences. The major is also designed for students planning to transfer into a premedical, pre-veterinary, pre-dental, pharmacy, or chiropractic degree program.

Through the core units of the Biological Sciences major, students will gain the scientific knowledge necessary to investigate problems and ideas presented in upper division biology courses and to evaluate scientific information critically. The laboratory work will train students to use current laboratory technologies, equipment, and techniques to engage in the research process.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interrelate the scientific method, scientific research and established scientific knowledge.
- Communicate scientific hypothesis, theories, and findings.
- Summarize major biological concepts.
- Apply laboratory skills fundamental to biological investigation.
- Analyze and interpret biological scientific data.

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Biological Sciences

Course	Units
Required	
BIO 100A General Biology	5.0
BIO 100B General Biology	5.0
CHEM 101A General College Chemistry	6.0
CHEM 101B General College Chemistry	5.0
CHEM 208A Chemical Structure and Reactivity I	4.0
PHYC 2A Introductory Physics I	3.0
PHYC 2AL Introductory Physics Laboratory	1.0
PHYC 2B Introductory Physics II	3.0

PHYC 2BL Introductory Physics Laboratory 1.0

Choose one of the following calculus courses:
MATH 110A Calculus I 5.0
MATH 100A Short Calculus I 3.0

Choose two of the following biology electives:
BIO 10 Animal Biology 4.0
BIO 12 Plant Biology 4.0
BIO 120 Introduction to Microbiology 4.0
BIO 132 Introduction to Nutrition 3.0
BIO 19 Ecology 4.0
BIO 51 Introduction to Genetics 3.0

Total: . . . . . 42.0 – 46.0

Biological Sciences (Emphasis Health Science) Major (AS)

CCSF's Biological Sciences (Emphasis Health Science) major offers courses in chemistry, anatomy, physiology, and microbiology to serve students with diverse goals in health sciences, including preparation for Registered Nursing (RN), Bachelors of Science in Nursing (BSN) and Masters of Science in Nursing (MSN) degrees. Note that those transferring to MSN programs already possess BS or BA degrees and are completing prerequisites required for admission. Biological Sciences (Emphasis Health Science) majors will be able to take most or all of their lower division courses at CCSF before they transfer but should see a counselor to confirm their program of study. Additional courses might be required to transfer to particular institutions.

A major in Biological Sciences (Emphasis Health Science) prepares students for further study, certification, and employment in a variety of health science careers such as nursing, radiologic technology, respiratory therapy, occupational therapy, and physical therapy. In addition to these diagnostic and therapeutic fields, students will also be prepared to pursue further education and training in a variety of non-clinical support services, public health, and health administration careers. This program provides most, if not all, of the prerequisite courses needed for entry in RN and BSN programs and most, if not all, of the lower division courses needed for transfer to a four-year college or university.

Through the core units of the Biological Sciences (Emphasis Health Science) major, students will gain the scientific background necessary to complete courses in a variety of healthcare related professional programs and upper division nursing courses. The laboratory work will provide students with fundamental laboratory skills and the ability to critically evaluate and use scientific information.

Learning Outcomes

Upon completion of this program, students will be able to:

- Articulate the relationship between structure and function in the human body.
- Describe how disease states modify normal homeostatic functions.
- Evaluate social and environmental impacts on human health.
- Apply basic laboratory skills and analytical methods to scientific study.
- Critique health-care related scientific information based on the strength and quality of the supporting evidence.

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Biological Sciences (Emphasis Health Science)

Course . . . . . Units
Required
CHEM 32 Introduction to Medical Chemistry 4.0
or CHEM 101A General College Chemistry 6.0
MATH 80 Probability and Statistics 5.0
BIO 108 General Human Anatomy 4.0
BIO 112 Introduction to Human Physiology 4.0
BIO 120 Introduction to Microbiology 4.0
CMST 1A Elements of Public Speaking 3.0
or CMST 20 Interpersonal Communication 3.0
PSYC 1 General Psychology 3.0
or PSYC 21 Lifespan Development 3.0

Total: . . . . . 27.0 – 29.0

Environmental Science Major (AS)

CCSF's Environmental Science major provides students with a strong foundation in the natural sciences in preparation for transfer to a bachelor's degree program in environmental science and related fields. The major integrates coursework, lab work, field studies, and projects in the life sciences and physical sciences with electives from the social sciences to increase the breadth of disciplines that underlie the environmental sciences.

Through the required units for the Environmental Science major, students will gain an understanding of core scientific concepts and their importance in understanding human impacts on the environment. Students will also be able to critically evaluate the scientific evidence and sociopolitical aspects of environmental and natural resource problems, their causes, and proposed solutions.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply concepts, models, and quantitative techniques from mathematics, life sciences, and physical sciences to solve complex problems related to the natural world.
- Evaluate quantitative and qualitative evidence regarding the causes and consequences of human impacts on the environment and their implications for ecosystem services and societal welfare.
- Collect, analyze, and interpret environmentally relevant data in laboratory or field settings.
- Apply scientific, economic, and sociopolitical concepts and models to both critically evaluate and propose sustainable solutions to environmental degradation and resource depletion.

See major requirements at the intended transfer institution to choose the appropriate course(s) when options are given.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Environmental Science

Course . . . . . Units
Required
ENVS 31 Introduction to Environmental Science 3.0
ENVS 31L Environmental Science Laboratory 1.0

CHEM 101A General College Chemistry 6.0
BIO 100A General Biology 5.0

Choose one of the following Earth Science combinations
GEOL 10 Physical Geology 3.0
and GEOL 10L Physical Geology Lab 2.0
or GEOL 30 Environmental Geology 3.0
and GEOL 30L Environmental Geology Lab 1.0
or GEOG 1 Physical Geography 3.0
and GEOG 1L Physical Geography Laboratory 1.0

Choose one of the following Math courses
MATH 100A Short Calculus I 3.0
MATH 110A Calculus I 5.0

Choose one of the following Physics combinations
Note that the Physics 4 series is often required for those majors with a physical science focus.

PHYC 4A Classical Mechanics for Scientists and Engineers 3.0
and PHYC 4AL Mechanics Laboratory for Scientists and Engineers 1.0
or PHYC 2A Introductory Physics I 3.0
and PHYC 2AL Introductory Physics Laboratory 1.0

Choose one of the following second semester core courses
A second semester in ALL of these courses is HIGHLY recommended

BIO 100B General Biology 5.0
CHEM 101B General College Chemistry 5.0
PHYC 4B Electromagnetism for Scientists and Engineers 3.0
and PHYC 4BL Electromagnetism Laboratory for Scientists and Engineers 1.0
PHYC 2B Introductory Physics II 3.0
and PHYC 2BL Introductory Physics Laboratory 1.0
MATH 100B Short Calculus II 3.0
MATH 110B Calculus II 5.0

Choose 6 units from the following courses
BIO 19 Ecology 4.0
BIO 20 Introduction to Ecology 3.0
BIO 33 Introduction to Conservation Biology 3.0
CHEM 208A Chemical Structure and Reactivity I 4.0
CHEM 212A Organic Chemistry 6.0
ECON 1 Principles of Macroeconomics 3.0
ECON 3 Principles of Microeconomics 3.0
ECON 22 Introduction to Environmental Economics 3.0
ENRG 3 Introduction to Alternative Energy 3.0
ENRG 3L Introduction to Alternative Energy Laboratory 1.0
GEOG 4 Cultural Geography 3.0
GEOG 41A Climate Change 1.0
GEOG 110 Introduction to GIS 3.0
MATH 80 Probability and Statistics 5.0
Any of the previous earth science, physics, mathematics, biology, or chemistry options not already completed

Total: . . . . . 35.0 – 40.0

Foundations in Biological Sciences Certificate

CCSF's Foundations in Biological Sciences Certificate offers key biology and support courses to serve students with the intention to major in Biology. All of the courses in the certificate are part of CCSF's AS and AS-T degrees in biology or transfer to biology programs at U.C., C.S.U. or other four-year institutions. Generally students will require a year of chemistry and physics to earn a degree in these areas, and students should refer to the transfer institutions requirements when selecting courses. Additional courses might be required to transfer to particular institutions. The Foundations in Biological Sciences Certificate is suitable for students planning to transfer into programs in the biological sciences, including general biology, cell or molecular biology, organism biology, marine biology, botany, zoology, ecology, evolution, genetics, anatomy, physiology, or microbiology. The certificate is also designed for students planning to transfer into a premedical, preveterinary, pre-dental, pharmacy, or chiropractic degree program.

Through the core units of the Foundations in Biological Sciences Certificate, students will gain the scientific knowledge necessary to investigate problems and ideas presented in upper division biology courses and to evaluate scientific information critically. The laboratory work will train students to use current laboratory technologies, equipment, and techniques to engage in the research process.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe biological concepts relevant to diverse biological disciplines.
- Apply laboratory skills fundamental to biological investigation.
- Analyze and interpret biological scientific data.
- Communicate scientific hypothesis, theories, and findings.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Foundations in Biological Sciences

Course . . . . . Units
Required
CHEM 101A General College Chemistry 6.0
BIO 100A General Biology 5.0
BIO 100B General Biology 5.0

Choose one of the following physics options
OPTION ONE:
PHYC 2A Introductory Physics I 3.0
PHYC 2AL Introductory Physics Laboratory 1.0

OPTION TWO:
PHYC 4A Classical Mechanics for Scientists and Engineers 3.0
PHYC 4AL Mechanics Laboratory for Scientists and Engineers 1.0

Choose one of the following calculus courses
MATH 100A Short Calculus I 3.0
MATH 110A Calculus I 5.0

Total: . . . . . 23.0 – 25.0

Science Core for Nursing Certificate

Registered nurses (RNs) provide and coordinate patient care, educate patients and the public about various health conditions, and provide advice and emotional support to patients and their family members. Registered Nurses usually take one of three education paths: a Bachelor of Science degree in nursing (BSN), an associates degree in nursing (ADN) or a diploma from an approved nursing program. All of these types of programs require students to take a series of prerequisites prior to entry. Depending on the program various paths that may

include courses in speech, communication, statistics, English and psychology may be required. However, all programs require the successful completion of a core set of science courses including courses in Anatomy, Physiology and Microbiology. This program is designed to ensure the successful completion of these key courses as well as providing a fundamental background for successful completion of the scientific portion of the ATI Test of Essential Academic Skill (TEAS).

Learning Outcomes

Upon completion of this program, students will be able to:

- Articulate the structure function relationships within the human body.
- Differentiate between commonly encountered infectious and non-infectious disease states in humans.
- Evaluate the impacts of society and the environment on human health outcomes.
- Apply basic laboratory skills and analytical methods to test a scientific hypothesis.
- Critique health-care related scientific information based on the strength and quality of the supporting evidence

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Science Core for Nursing

Course	Units
Required	
CHEM 32 Introduction to Medical Chemistry	4.0
or CHEM 101A General College Chemistry	6.0
BIO 108 General Human Anatomy	4.0
BIO 112 Introduction to Human Physiology	4.0
BIO 120 Introduction to Microbiology	4.0
Total:	**16.0 – 18.0**

Announcement of Courses

Credit, Degree Applicable Courses:

Biology

BIO 9. Human Biology (4)
Lec-52.5, Lab-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to scientific and biological principles through the study of humans as exemplary organisms. Lectures and laboratory exercises will explore current scientific issues, develop critical thinking skills, and examine the structure and function of the human body in relation to health and disease. UC/CSU

BIO 10. Animal Biology (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Recommended Prep: (ESL 186 or placement in ESL 188) or readiness for college-level English
An introduction to the biology, evolution, and ecology of animals. Topics include chemistry, cell biology, anatomy, physiology, behavior, evolution, classification, genetics, and the diversity of invertebrate and vertebrate organisms. UC/CSU
Formerly ZOOL 10 Biology 10 is designed for students not specializing in biology, zoology, botany, or the medical sciences and is not recommended for students who have taken BIO 100A, 100B, 11, or PHYS 1.
Offered Fall semesters

BIO 11. Science of Living Organisms (4)
Lec-52.5, Lab-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The major concepts of the biological sciences including biochemistry, cells, evolution, genetics, bioenergetics, microbiology, botany, mycology, zoology, ecology, and biotechnology UC/CSU
Not recommended for students who have taken BIO 100A or 100B.
Offered Fall and Spring semesters

BIO 12. Plant Biology (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to structure, function, evolution, classification and ecology of plants. Topics include life history plants, levels of organization, metabolism, form and function, and a survey of major taxa (including fungi and photosynthetic protists). Laboratory exercises are coordinated with lecture topics and may include field exercises. UC/CSU
Formerly BOT 10
Offered Spring semesters

BIO 14. Plant Ecology (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Plant ecology is the study of interrelationships between plants and their environment and informs us about processes behind patterns observed in nature. Within plant ecology we will synthesize information across levels of ecological organization and address plant physiological ecology, population biology, community and ecosystem ecology and biogeography. UC/CSU

BIO 15. Biology of HIV (3)
Lec-52.5, field trips P/NP available
This course presents the biological basis for HIV/ AIDS origins and emergence; epidemiology; virus structure and replication; interaction of HIV with the immune system and disease; HIV testing; current prevention, treatment, and cure strategies. UC/CSU

BIO 19. Ecology (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Fundamental concepts of ecology, field observations and experiments applying the scientific method; chemical and energy cycles; effect of physical and biological environment on community structure; diversity and distribution; population dynamics and interspecific reactions; biodiversity of the genetic, species, and ecosystems level and relevant social ecological problems. UC/CSU
Formerly Ecology 20, Biology 19 may include several required Saturday field trips in exchange for class time.
Offered every semester

BIO 20. Introduction to Ecology (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This introductory ecology course will study the relationships between organisms and their environment. We will examine species

adaptations, population, community and ecosystem ecology, and survey the worlds biomes. We will also evaluate humanities impacts on the living world and explore sustainable solutions. UC/CSU
Formerly ECOL 10. Class will have field trips which may include a Saturday field trip. The course is not open to students concurrently enrolled in ECOL 10 or to those who have taken ECOL 10 in the past.
Offered every semester

BIO 21A. Ecology of San Francisco Bay (1)
Lec-17.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An investigation of the ecological significance of San Francisco Bay and historical and current abiotic and biotic factors shaping it. Identification of habitats and the adaptations of their key microbial, plant, and animal components. CSU
Formerly ECOL 80A. This course is offered as a weekend course with a prior mandatory evening orientation on campus.
Elective offered at the department's discretion

BIO 21B. Ecology of the City of San Francisco (1)
Lec-17.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An examination of abiotic and biotic factors shaping nature in San Francisco. An analysis of plant, animal, and human interactions within diverse habitat types over time. CSU
Formerly BIO 81A. This is a course taught on two weekend days with a mandatory evening orientation.
Elective offered at the department's discretion

BIO 21C. Ecology of Golden Gate National Recreation Area (1)
Lec-17.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An investigation of the ecological significance of Golden Gate National Recreation Area (GGNRA) and the role of historical and current biotic and abiotic factors in shaping it. Observe and describe the diverse habitats and their associated fauna and flora. Highlight management issues that affect the conservation and restoration of these biological and cultural resources. CSU
Formerly BIO 28 and ECOL 80C
Elective offered at the department's discretion

BIO 21D. Ecology of Point Reyes National Seashore (1)
Lec-17.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An investigation of the ecological significance of the Point Reyes National Seashore (PRNS) and the role of historic and current biotic and abiotic factors that shape it. Observation of the diversity of habitats within PRNS and description of their associated fauna and flora. CSU
Formerly ECOL 80D
Elective offered at the department's discretion

BIO 21E. Ecology of Coastal Mendocino County (1)
Lec-17.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An investigation of the ecological significance of coastal Mendocino County and historical and current abiotic and biotic factors shaping it. Identification of habitats and the adaptations of their key microbial, plant and animal components. CSU
Formerly ECOL 80E. This is a one weekend field course with a mandatory orientation on campus.
Elective offered at the department's discretion

BIO 21F. Ecology of the San Francisco Bay Delta (1)
Lec-17.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An investigation of the ecological significance of the San Francisco Bay Delta and historical and current abiotic and biotic factors shaping it. Identification of habitats and the adaptations of their key microbial, plant and animal components. CSU
Formerly ECOL 80F. This course is taught on two weekend days with one mandatory on-campus orientation.
Elective offered at the department's discretion

BIO 21J. Agroecology (1)
Lec-18, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An examination of ecological issues surrounding agriculture. Analysis of ecosystem services (benefits) provided by sustainable agriculture. Evaluation of different farming methods practiced on local urban farm and how this may relate to personal food choices. CSU
Formerly BIO 80C. Topics in Biology-Agroecology
Elective offered at the department's discretion

BIO 21M. Coastal Ecosystem Field Studies (2)
Lec-35, field trips P/NP available
Recommended Prep: (Readiness for college-level English or ESL 188) and (proficiency in swimming and wading to access study sites)
An investigation into coastal patterns and processes that shape marine ecosystems with emphasis on biodiversity. Students will apply ecological concepts during field studies of natural history, adaptations and community dynamics. Course field sites will vary among years from domestic to international locations. UC/CSU
Elective offered at the department's discretion

BIO 26. Habitat Restoration Field Studies (1)
Lec-18, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introductory course analyzing the principles of habitat restoration and habitat restoration techniques. This class will be conducted as a field experience class. The concepts will be developed at specific restoration sites in the San Francisco Bay Area. Students will participate in a restoration activity under the direction of a field ecologist. CSU

BIO 32. Marine Biology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The natural history of California marine biota with emphasis on the interrelationships between marine life and their environment. UC/CSU
Offered Spring semesters

BIO 32L. Marine Biology Laboratory (1)
Lab-52.5, field trips P/NP available
Prereq: Completion of or concurrent enrollment in: BIO 32
A laboratory course, utilizing a laboratory/field trip format, designed to reinforce and augment the student's understanding of basic prin

ciples of marine biology as taught in BIO 32. UC/CSU
Offered Spring semesters

BIO 33. Introduction to Conservation Biology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the discipline of conservation biology focusing on biodiversity, the threats to biodiversity from human activities and the practical aspects of conserving species, habitats and ecosystem function. UC/CSU
Offered Fall semesters

BIO 40. Plants and Animals of California (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Analysis of California's natural geographic, biological, and climatic regions. Examine the basic concepts of ecology and evolution as they relate to the adaptations and distributions of California's plants and animals. Assessment of impacts of modern human society on the California biodiversity hotspot and evaluation of mitigating strategies. UC/CSU

BIO 51. Introduction to Genetics (3)
Lec-52.5 P/NP available
Recommended Prep: ((ESL 186 or placement in ESL 188) or readiness for college-level English)) and (BIO 9 or BIO 11 or high school biology course)
A general survey of the basic principles of genetics and organic evolution with a historical perspective. Classical genetics, molecular genetics, population genetics and evolution, current genetic research and technologies. UC/CSU
Formerly GEN 10
Offered Spring semesters

BIO 51L. Genetics Laboratory (1)
Lab-52.5 P/NP available
Prereq: Completion of or concurrent enrollment in: BIO 51 BIO 53
Hands-on investigative laboratory experiments encompassing cellular genetics, classical plant and animal genetics, microbial genetics, molecular genetics, biotechnology, forensics, and natural selection. UC/CSU
Formerly GEN 11.
Elective offered at the department's discretion

BIO 53. Human Genetics (3)
Lec-52.5 P/NP available
Recommended Prep: ((ESL 186 or placement in ESL 188) or readiness for college-level English)) and (BIO 9 or BIO 11 or high school biology course)
Basic principles of human genetics. Genetics in development, health and behavior. Family and population genetics. Effects of mutation, assortative mating, and reproductive rates upon gene distribution. Potential advances in human genetic engineering, and the role of genetic counseling. UC/CSU
Formerly GEN 15
Elective offered at the department's discretion

BIO 61. The Biology of Cancer (3)
Lec-52.5
Recommended Prep: (ESL 186 or placement in ESL 188) or readiness for college-level English
This course discusses the history of cancer and its molecular and cellular underpinnings. It examines possible causes and progression of cancer, prevention, screening tests, symptoms, diagnosis, and treatment. UC/CSU
Offered Spring semesters Elective offered at the department's discretion

BIO 92. Work Experience in Biology, Ecology, and Environmental Studies and Science (1-8)
Work-60-600, field trips P/NP available
Prereq: Approval of Biology Department
Repeat: Repeated up to 16.00 Units
College work experience on-campus or with an approved community partner in the fields of biology, ecology, or environmental studies and science under the supervision of an instructor. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU

BIO 100A. General Biology (5)
Lec-52.5, Lab-105
Prereq: CHEM 101A
Recommended Prep: (BIO 11 or 1 yr. HS Biology) and (Readiness for college-level English or ESL 188)
A general introduction to cell structure and function, cell biochemistry, cell cycle, principles of molecular and organismal genetics, genetic engineering, and animal form and function. Intended for students majoring in the biological sciences, but open to all qualified students. UC/CSU
C-ID BIOL 135S (BIO 100A + BIO 100B)
Offered Fall and Spring semesters

BIO 100B. General Biology (5)
Lec-52.5, Lab-105, field trips
Recommended Prep: Readiness for college-level English or ESL 188
A general introduction to evolution, the diversity of life, plant form and function, and ecology. Intended for students majoring in the biological sciences, but open to all qualified students. UC/CSU
C-ID BIOL 135S (BIO 100A + BIO 100B)
Offered Fall and Spring semesters

BIO 106. Introduction to Human Anatomy and Physiology (4)
Lec-52.5, Lab-52.5
Recommended Prep: (ESL 186 or placement in ESL 188) or readiness for college-level English
An integrated course covering the fundamental principles of human anatomy and physiology. UC/CSU
Formerly ANAT 14
Offered Fall and Spring semesters

BIO 108. General Human Anatomy (4)
Lec-52.5, Lab-52.5 P/NP available
Recommended Prep: (ESL 186 or placement in ESL 188) or readiness for college-level English
Study of the gross and microscopic structure of the human body. UC/CSU
C-ID BIOL 110 B
Formerly ANAT 25
Offered Fall and Spring semesters

BIO 111. Human Physiology (5)
Lec-52.5, Lab-105, field trips
Prereq: CHEM 32 or CHEM 101A
Recommended Prep: Readiness for college-level English or ESL 188
A course in systems physiology with an emphasis on the quantitative

aspects of cellular and molecular mechanisms contributing to homeostasis of the human organism. This course is intended for students transferring to four-year institutions and for those entering graduate-level professional allied health programs. UC/CSU
C-ID BIOL 120 B
Formerly PHYS 1

BIO 112. Introduction to Human Physiology (4)
Lec-52.5, Lab-52.5
Prereq: CHEM 32 or CHEM 101A
Recommended Prep: Readiness for college-level English or ESL 188
A course in general human physiology which stresses the analysis of normal function of the human body, including the physiology of cells, muscles, the nervous system, sensation, digestion, circulation, respiration, metabolism, excretion, endocrines, and reproduction. This course is intended for students entering allied health professions. UC/CSU
C-ID BIOL 120 B
Formerly PHYS 12
Offered Fall and Spring semesters

BIO 114. Exploring Neuroscience: An introduction to the Brain (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Designed to expose students to topical questions in neural science, this course will investigate cellular communication, simple reflexes, complex neural networks and complex behaviors such as consciousness, coordinated movement, emotions, motivation, and memory. Intended for all students interested in understanding the science behind the brain. UC/CSU
Formerly PHYS 67
Offered Spring and Summer semesters

BIO 118. Introduction to Entomology (4)
Lec-52.5, Lab-52.5
Recommended Prep: (BIO 100A or BIO 100B or BIO 11 or BIO 9 or a high school biology course) and (Elementary algebra or higher) and (Readiness for college-level English or ESL 188)
An introduction to the biology of arthropod organisms, including insects and arachnids. Topics include the biochemistry, cell biology, anatomy, physiology, behavior, evolution, classification, genetics, diversity, and distribution of arthropods and their effects on human populations and public health. UC/CSU
Elective offered at the department's discretion

BIO 118B. Introduction to Entomology (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the biology of arthropod organisms, including insects and arachnids. Topics include the biochemistry, cell biology, anatomy, physiology, behavior, evolution, classification, genetics, diversity, and distribution of arthropods and their effects on human populations and public health. UC/CSU
Elective offered at the department's discretion

BIO 119. Emerging Diseases (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A general education course emphasizing the intersection of microbiology, epidemiology, ecology and public health as they relate to selected infectious disease agents that threaten human and animal welfare around the globe. It analyzes the influence of biological, environmental and socio-political factors on the emergence of "new" diseases as well as the reemergence of ancient plagues. UC/CSU
Formerly Microbiology 10 (M B 10)
Elective offered at the department's discretion

BIO 120. Introduction to Microbiology (4)
Lec-52.5, Lab-70 P/NP available
Prereq: CHEM 32 or CHEM 101A or demonstration of CHEM 32 or CHEM 101A exit skills
Recommended Prep: Readiness for college-level English or ESL 188
This course explores the evolution, structure, function, diversity, and medical importance of microbes and infectious disease agents. Emphasis is placed on the interactions of microbes with the environment, animals, plants, and other microbes in health and disease. UC/CSU
Formerly M B 12
Offered Fall and Spring semesters

BIO 121. Principles of Food Safety (2)
Lec-35 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Principles of food-borne illness etiology and transmission; food-borne agents resulting in food spoilage, infections, and poisonings; sanitary, preventive, and managerial practices mandated by public health laws for food service personnel and health inspectors to ensure food safety. Use of fermentation microorganisms in food preparation. CSU
C-ID HOSP 110
Formerly MB 51
Offered every semester

BIO 122. Food Safety Manager Preparation (1)
Lec-17.5 P/NP available
This course prepares culinary professionals for the implementation of food safety practices, maintenance of a safe and hygienic foodservice operation, and oversight and training of hourly food workers to prevent the transmission of foodborne illness. The course content is aligned with the Food and Drug Administration (FDA) Food Code and prepares certification candidates for any of the nationally-accredited Certified Food Safety Manager Exams. CSU
This course is designed for students who have previously become certified food safety/protection managers and are refreshing their knowledge prior to recertifying.
Elective offered at the department's discretion

BIO 130. Nutrition and Culinary Arts (2)
Lec-35 P/NP available
Recommended Prep: (ESL 186 or placement in ESL 188) or readiness for college-level English
Nutrition and food concepts relevant to students in the Culinary Arts and Hospitality Management Programs. Review properties of nutrients, common metabolic and digestive problems and the required diet modifications and treatment. CSU
Formerly NUTR 51. Not intended for students who have completed BIO 132, BIO 134, NUTR 12 or NUTR 52.
Offered Fall and Spring semesters

BIO 132. Introduction to Nutrition (3)
Lec-52.5 P/NP available
Recommended Prep: (ESL 186 or placement in ESL 188) or readiness for college-level English
Emphasis on the practical application of nutrition to everyday life such as planning a healthy diet, assessing one's nutritional food intake, understanding nutritional labels and useful sources for nutrition information. Scientific principles behind the development of Dietary Reference Intakes (DRIs) and Food Guidelines. UC/CSU
Formerly NUTR 52. Not intended for students who have completed BIO 130, 134, NUTR 12 or NUTR 51.
Offered Spring and Summer semesters

BIO 134. Introduction to Nutrition for Health Sciences (3)
Lec-52.5 P/NP available
Recommended Prep: (ESL 186 or placement in ESL 188) or readiness for college-level English
An introductory nutrition course intended for students interested in entering the allied health fields with emphasis on physiology, metabolism of nutrients, metabolic diseases and dietary modification to optimize recovery and health. Students will understand and evaluate dietary intake, nutritional assessment, and nutrition care commonly used at clinics and hospitals. UC/CSU
C-ID NUTR 110
Formerly NUTR 12
Offered every semester

Environmental Science and Sustainability

ENVS 5. Sustainability and the Environment Speaker Series (1)
Lec-18, field trips P/NP available
Recommended Prep: Background in environmental science; Completion of or concurrent enrollment in: ENVS 31
Students will hear from professionals and experts from government, private, non-profits and public sectors as they share their insights on careers in sustainability and the environment. Career opportunities, academic and job training pathways will also be discussed. CSU
Formerly SUST 5

ENVS 31. Introduction to Environmental Science (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An examination of the scientific evidence informing our understanding of the causes and consequences of human impacts on the environment. Application of core principles, methods, qualitative and quantitative reasoning from the natural sciences, social sciences, and engineering and technology to investigate and evaluate sustainable solutions to environmental degradation and resource depletion. UC/CSU
Formerly SUST 31 = BIO 31 = GEOG 31
Offered every semester

ENVS 31L. Environmental Science Laboratory (1)
Lab-52.5, field trips P/NP available
Prereq: Completion of or concurrent enrollment in: ENVS 31
An introduction to tools and techniques used by environmental scientists to investigate human impacts on the environment in lab and/or field settings. Application of qualitative and quantitative concepts and models to evaluate environmental problems and their proposed solutions. CSU
Formerly also listed as BIO 31L, GEOG 31L, and SUST 31L
Offered every semester

ENVS 91. Applied Research in Sustainability (.5-8)
Work-30-600, field trips P/NP available
Prereq: Approval of Engineering & Technology Department
Recommended Prep: ENVS 31
Repeat: Repeated up to 16.00 Units
Internship in sustainability-related settings (such as environmental education, alternative energy systems, sustainable water systems, green building, habitat restoration, urban agriculture) under the supervision of a qualified professional. The student will need to arrange the internship and then contact the instructor to enroll in this class. Suggestions and strategies are available on course website. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
Formerly SUST 91

Broadcast Electronic Media Arts

Office: Art X 160
Phone Number: (415) 239-3351
Web Site: *www.ccsf.edu/bema*

Announcement of Curricula

General Information

The BEMA department is perfectly located within a top-ten media market, and is adjacent to Silicon Valley, which is home to many tech media giants. Our in-depth programs include video production, editing, finishing and motion graphics; sound recording arts, including multi-track recording, sound design and live sound reinforcement; and digital media content creation, broadcast, journalism; as well as audiovisual technology. BEMA courses, certificates, and degrees are designed to serve equally – new college students intending to transfer, returning students who wish to pivot to a new industry, and industry professionals needing to update their skill set. Located in the dynamic and diverse city of San Francisco, BEMA is a rewarding and engaging place to study.

Admission. Enrollment is open to all interested students. Please note that some classes have prerequisites, corequisites, and advisories.

Work Experience and Internships. Students enrolled in Broadcast Electronic Media Arts classes refine skills in an in-house internship program which provides the College with media services, video production services, programming for education access television, and support for the college public relations office. After basic production craft skills are mastered, students are supported in internships at industry sites such as broadcast stations, video production houses, sound recording studios, live sound companies, streaming companies, and in-house media services for corporations.

Transfer Information. All Broadcast Electronic Media Arts courses are credit and degree applicable, and selected courses transfer to the CSU and/or UC systems. Students are encouraged to work with a college counselor and a department program advisor to establish an education plan during the first semester of study. For additional information consult the "Transfer Information" section of this catalog.

Facilities and Equipment. Broadcast Electronic Media Arts facilities have undergone extensive upgrades which include installation of a digital video editing lab, digital audio production lab, hybrid sound recording studio, plus two digital teleproduction studios. San Francisco's Educational Access Television Channel 27 and Channel 75 cablecast citywide from the department's facilities.

Additional Information: Broadcasting students who wish to earn the Film, Television & Electronic Media Major (AS-T) in preparation for transfer to a broadcasting department at a four-year university should emphasize the BCST courses in the degree program. Please consult the Department Chair for more information at (415) 239-3527.

Film, Television & Electronic Media Major (AS-T)

The Associate in Science in Film, Television, and Electronic Media for Transfer (AS-T) is designed to build students' performance skills in the areas of film, television, and digital media. Courses emphasize production and operations, technical and aesthetic skills, collaboration, teamwork, as well as analysis and media literacy. The AS-T is a comprehensive lower division program that will prepare students for transfer into bachelor degree programs in broadcast and digital media, film, TV, and similar majors. The Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe and analyze the history, issues and impact of film, television and electronic media in a local and global context.
- Demonstrate media literacy as a key part of the development of critical thinking skills.
- Apply introductory analytical skills to the design and creation of content for film, television, and electronic media with a focus on writing, storytelling, teamwork, and leadership in preparation for further study at the university level.
- Demonstrate film, television and electronic media production and performance craft skills suitable for further development at the university level.
- Demonstrate standards of professional conduct in a media context.

Degree Requirements. Students who wish to earn the Associate in Science in Film, Television and Electronic Media for Transfer (AS-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AS-T in Film, Television & Electronic Media

Course . . . . . Units

Choose two courses from the following

BCST 100 Introduction to Electronic Media 3.0
BCST 110 Introduction to Writing for Electronic Media 3.0
CINE 21 Introduction to Film Studies 3.0

Choose one of the following options

BCST 120 Audio Production 3.0
CINE 60 Sound for Motion Pictures I 3.0

Choose one of the following options

BCST 140 Studio Video Production 3.0
BCST 141 Field Video Production 3.0
CINE 24 Basic Film Production 4.0

Area 1 Elective: Choose one of the following options not used above

BCST 103 Mass Media and Society 3.0
BCST 140 Studio Video Production 3.0
BCST 141 Field Video Production 3.0
CINE 20A International Film History (1880s-1930s) 3.0
CINE 20B International Film History (1930s-1960s) 3.0
CINE 24 Basic Film Production 4.0
CINE 25 Narrative Filmmaking 3.0
CINE 54 Cinematography & Lighting 3.0

Area 2 Elective: Choose one of the following options not used above

BCST 101 Media Literacy 3.0
BCST 115 Announcing and Performance 3.0
BCST 144A Video Editing Premiere Intro 4.0
BCST 146A Video Motion Graphics 4.0
CINE 18 American Cinema 3.0
CINE 20C International Film History (1960s-Present) . . 3.0
CINE 56 Introduction to Digital Film Editing 4.0
CINE 126 Documentary Filmmaking 3.0
CINE 136 Special Effects 3.0

Total: . . . . . 18.0 – 21.0

Audio and Video for the Web Certificate

The Audio and Video for the Web certificate combines the study of creating media content, process and problem solving with tools and techniques of visual communication for broadband distribution. This course of study prepares the student to distribute audio and video content effectively via broadband.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the processes involved in creating audio and video content for broadband delivery.
- Evaluate the impact internet content has on society.
- Plan, organize and create effective online content that conveys intended message.

Students must complete courses at City College of San Francisco.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Audio and Video for the Web

Course . . . . . Units

Required courses:

BCST 119 Digital Media Skills 3.0
BCST 135 Audio for the Web/Podcasting 1.0
BCST 136 Video for the Web 1.0
BCST 159 Digital Media Portfolio 1.0

Total: 6.0

Audio Production and Post-Production Certificate

The Audio Production and Post-Production certificate provides students with foundational technical skills for a number of jobs in the audio industry, including live sound event production, music recording studios, sound design for film, television, and video.

The Audio Production and Post-Production program is a stand-alone certificate with a choice of emphasis either in the sound reinforcement industry or sound design and sound for visual media.

The Live Sound emphasis provides students with a foundation in the application of audio production in various acoustic spaces and venues. Students learn how to operate and troubleshoot live sound production equipment and are prepared for entry-level work doing live sound for theaters, nightclubs, concert halls, sporting events, conferences, conventions, presentations, and live sound distribution via broadcast, cable, wireless, mobile devices and emerging media.

The Sound Design emphasis includes use of industry-standard equipment in audio-for-visual media production facilities and in location sound. Students who complete this certificate are prepared for entry-level positions in facilities specializing in audio-for-video and film production, television, radio production, advertising, and theater.

Learning Outcomes

Upon completion of this program, students will be able to:

- Plan and execute a production set-up for voice, acoustic, and electronic instruments.
- Produce content working in a variety of professional roles in the context of audio production and post-production.
- Utilize equalization techniques to remedy problems with acoustics.
- Apply industry-standard audio workflows to projects.
- Display professionalism, communication skills, and effective application of workforce protocol in the sound production and post-production industry.

Students must complete at least 8 units from the courses listed below at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Audio Production and Post-Production

Course	Units
Required	
Prerequisites may apply.	
BCST 120 Audio Production	3.0
BCST 124A Pro Tools Editing Essentials	2.0
BCST 124B Pro Tools Mixing with Plugins	2.0
BCST 125A Music Recording Studio	2.0
BCST 125B Music Mixing Studio	2.0
Choose 2 courses from the following	
For a live sound emphasis, choose BCST 127B and BCST 128. For a sound design emphasis, choose BCST 127A and CINE 61. (prerequisites may apply)	
BCST 127B Interconnected Audio Systems	1.0
and BCST 128 Sound Reinforcement	3.0
or BCST 127A Surround and Immersive Sound Mixing	1.0
and CINE 61 Sound for Motion Pictures II	3.0
Choose 2 units from the following	
BCST 160 College Internship	1.0 – 2.0
BCST 165 Industry Internship	1.0 – 2.0
Total:	**17.0**

Entrepreneurship and Innovation in Broadcast Media Certificate

This certificate program is designed to prepare students in Broadcast Electronic Media Arts to engage in the world of entrepreneurship. The program's interdisciplinary approach to entrepreneurship equips students with relevant tools in exploring various pathways to entrepreneurship, such as full-time business ownership, subcontracting (freelancing), consulting, corporate intrapreneurship or mission-driven social entrepreneurship.

Students will utilize common tools and techniques to create effective and engaging internet content. They will be able to conceptualize, produce, and deliver meaningful multimedia material. Those who complete this program can apply for entry level social media positions or media content creator positions, or use these skills to improve their creative portfolio and express opinions effectively in online campaigns.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply an entrepreneurial mindset that breeds creativity and innovation in broadcast and electronic media arts.
- Use terms and concepts related to functional areas of entrepreneurship and innovation necessary for startups.
- Analyze the marketing environment to identify entrepreneurial opportunities and areas for growth and development.
- Develop an agile and lean business plan for a startup project/enterprise that is ready for pitching.
- Compare different entrepreneurship pathways in relation to a project or business idea.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Entrepreneurship and Innovation in Broadcast Media

Course	Units
Required	
BCST 119 Digital Media Skills	3.0
BCST 135 Audio for the Web/Podcasting	1.0
BCST 136 Video for the Web	1.0
DSGN 105 Design Thinking	1.5
ENTR 101 Introduction to Entrepreneurship	3.0
ENTR 102 Applied Design Thinking for Entrepreneurship	1.5
MRKT 140 Introduction to Marketing	3.0
MRKT 180 Social Media Marketing	3.0
Total:	**17.0**

Foundations in Broadcast Electronic Media Arts Certificate

The Foundations in Broadcast Electronic Media Arts certificate provides essential knowledge and skills in audio, video, and interactive media in preparation for intermediate and advanced practice and study of media arts and related certificates. It can serve as a stand-alone certificate in the basics of media arts or the basis for a pathway to further instruction in theory, practice, and aesthetics in the craft of the audio, video, and media arts.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze major mass communication issues and the impact of new technology in the sound recording, video, multimedia, television, and radio industries.
- Plan and implement projects that include using the basics of sound, video, and internet tools.
- Display professionalism and effective application of workforce protocol and communication skills.

Students must complete at least 8 units from the courses listed below at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Foundations in Broadcast Electronic Media Arts

Course	Units
Required	
BCST 110 Introduction to Writing for Electronic Media	3.0
BCST 119 Digital Media Skills	3.0
BCST 120 Audio Production	3.0
Choose one of the following options	
BCST 100 Introduction to Electronic Media	3.0
BCST 101 Media Literacy	3.0
BCST 103 Mass Media and Society	3.0
Choose one of the following options	
BCST 140 Studio Video Production	3.0
BCST 141 Field Video Production	3.0
Choose one of the following options	
BCST 115 Announcing and Performance	3.0
BCST 124A Pro Tools Editing Essentials	2.0
BCST 144A Video Editing Premiere Intro	4.0
Total:	**17.0 – 19.0**

Multimedia Broadcast Journalism Certificate

This certificate provides students with news research, writing, reporting, and packaging skills for entry-level employment in radio, television, cable, syndicated, Internet, and satellite news organizations. The Multimedia Journalism certificate is also recommended for degree holders seeking to upgrade skills for career transition.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and analyze structure and writing style of material for electronic media news.
- Integrate and apply various news media writing and announcing techniques through information gathering, writing news stories, and on-camera presentations.
- Apply techniques and practices for digital video, audio production, and cross platform distribution for electronic news gathering.
- Assess and discuss the ethical issues of multi-media journalism.
- Display professionalism and effective application of workforce protocol in the multi-media news industry.

Students must complete at least 16 units from the courses listed below at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Multimedia Broadcast Journalism

Course	Units

Courses can be taken in any order (pre-requisites may apply), however these are foundational courses and should be taken in the first semester if possible.

BCST 115 Announcing and Performance	3.0
BCST 119 Digital Media Skills	3.0
BCST 141 Field Video Production	3.0
BCST 159 Digital Media Portfolio	1.0
JOUR 21 News Reporting and Writing	3.0
These courses are more advanced and should be taken the second semester if possible:	
BCST 110 Introduction to Writing for Electronic Media	3.0
BCST 135 Audio for the Web/Podcasting	1.0
BCST 136 Video for the Web	1.0
BCST 158 Social Media for Professionals	3.0
JOUR 35 Data and Multimedia Journalism	3.0
Choose 2 units from the following internship courses:	
BCST 160 College Internship	1.0 – 2.0
BCST 165 Industry Internship	1.0 – 2.0
Total:	**26.0**

Multimedia Content Creation for the Internet Certificate

Students will utilize common tools and techniques to create effective and engaging internet content. They will be able to conceptualize, produce, and deliver meaningful multimedia material including video, audio, and social media posts. Those who complete this program can apply for entry-level social media positions or media content creator positions, or use these skills to improve their creative portfolio and express opinions effectively in online campaigns.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the processes involved in creating audio, video, and social media content for broadband delivery.
- Evaluate the impact internet content has on society.
- Plan, organize, and create effective online content that conveys an intended message.

At least 10 units must be completed at City College San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Multimedia Content Creation for the Internet

Course	Units
Required	
BCST 119 Digital Media Skills	3.0
BCST 135 Audio for the Web/Podcasting	1.0
BCST 136 Video for the Web	1.0
BCST 159 Digital Media Portfolio	1.0
MRKT 180 Social Media Marketing	3.0
Choose 9 units from the following	
ART 125A Basic Design: 2-D Foundations	3.0

BCST 100 Introduction to Electronic Media 3.0
BCST 101 Media Literacy 3.0
BCST 103 Mass Media and Society 3.0
CINE 19 Introduction to Documentary Film Studies 3.0
CMST 1A Elements of Public Speaking 3.0
CMST 2 Introduction to Rhetorical Criticism 3.0
CNIT 129 Social Media, Blogs in Web Development 3.0
CNIT 131 Internet Basics and Beginning HTML 3.0
PHOT 60A Photoshop for Photographers 1 . . . . . 3.0

Total: 18.0

Television Production Certificate

This certificate provides intermediate video production skills including instruction in pre-production planning, audio and video production, program completion and distribution. Students completing this certificate program will be qualified for entry-level employment in video production for television, advertising, public relations, multimedia, education, music, theater, entrepreneurial projects, and corporate media departments.

Learning Outcomes

Upon completion of this program, students will be able to:

- Plan and implement the aesthetic and technical elements of TV studio and video field production through the pre-production, production, and delivery stages.
- Work in a variety of areas within the context of a television studio and field production.
- Produce and direct a short video production.
- Display professionalism and effective application of workforce protocol and communication skills in the television and video production industry.

Students must complete at least 8 units listed below at City College of San Francisco. All courses must have been taken within the last four years.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Television Production

Course . . . . . Units
Required
BCST 115 Announcing and Performance 3.0
BCST 140 Studio Video Production 3.0
BCST 141 Field Video Production 3.0
BCST 144A Video Editing Premiere Intro 4.0
BCST 148 Intermediate Studio Video Production 2.0
BCST 149 Intermediate Field Video Production 2.0

Choose two units from the following
BCST 160 College Internship 2.0
BCST 165 Industry Internship 2.0

Total: 19.0

Video Editing and Post-Production Certificate

This certificate provides instruction in video production, video editing, managing post-production tasks and distribution of video programs. Students completing this certificate program will be qualified for entry-level employment in video production and editing for television, advertising, public relations, multimedia, education, music, theater, film, entrepreneurial projects and media departments of agencies, businesses, and institutions.

Learning Outcomes

Upon completion of this program, students will be able to:

- Plan and implement the aesthetic and technical elements of video programs from pre-production through post-production stages in the context of video editing and finishing.
- Produce content working in a variety of professional roles in the context of video post-production.
- Apply a variety of video editing techniques related to story content and intent.
- Use color correction, audio finishing, and simple motion graphic techniques to effectively finish a video program.
- Display professionalism and effective application of workforce protocol and communication skills in the video editing and post-production industry.

Students must complete at least 4 courses listed below at City College of San Francisco. All courses must have been taken within the last four years.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Video Editing and Post-Production

Course . . . . . Units
Required
BCST 124A Pro Tools Editing Essentials 2.0
BCST 144A Video Editing Premiere Intro 4.0
BCST 144B Video Editing Premiere Intermediate 4.0
BCST 146A Video Motion Graphics 4.0
BCST 147 Advanced Video Editing 4.0

Choose one course from the following
BCST 148 Intermediate Studio Video Production 2.0
BCST 149 Intermediate Field Video Production 2.0

Choose one course from the following
BCST 160 College Internship 2.0
BCST 165 Industry Internship 2.0

Total: 22.0

Announcement of Courses

Students enrolled in Broadcast Electronic Media Arts lecture and laboratory courses may be required to purchase additional materials. Students may be charged a materials use fee.

Credit, Degree Applicable Courses:

BCST 100. Introduction to Electronic Media (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Development and impact of electronic media institutions of radio, television, cable, satellite, internet, and new media technologies as social, vocational, economic, and political forces in American society. The emphasis of this course is on history, organization, operation, occupation, programming, political development, regulation, and business practices. UC/CSU
Offered every semester

BCST 101. Media Literacy (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Critical analysis of aesthetic and thematic aspects of television, cable, streaming audio, video, and mobile device programming. Methods of interpreting visual and oral messages present in news, entertainment, sports and advertising. Impact of emerging technologies on program content and form. UC/CSU
Offered Fall and Spring semesters

BCST 103. Mass Media and Society (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
A general interest course covering the history, organization and social role of major mass communication media, such as radio, television, motion pictures, print, recording industries, Internet, and the World Wide Web. Basic theory of communication and communication research. Emphasis on the influence of mass media on the individual and society. UC/CSU
Offered every semester

BCST 110. Introduction to Writing for Electronic Media (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Basic introductory course in writing for electronic media. Emphasis on preparing scripts in proper formats, including fundamental technical, conceptual and stylistic issues related to writing non-fiction and fiction scripts for informational and entertainment purposes in electronic media. Includes a writing evaluation component as a significant part of the course requirement. CSU
Offered Fall semesters

BCST 115. Announcing and Performance (3)
Lec-52.5, field trips
Recommended Prep: BCST 120 and (readiness for college-level English or ESL 188)
Introduction to basic theory and practice in interpretation of copy, pronunciation, and announcer's duties for radio, television, podcast and web video. Study and practice of oral skills for effective communication of meaning in scripts, newscasts, voiceovers and commercial messages with emphasis on development of voice, articulation and pronunciation. CSU
Offered Spring semesters

BCST 119. Digital Media Skills (3)
Lec-52.5
A hands-on overview of computer operations, equipment common to digital video and audio production, industry standard software, media storage, and manipulation of video and audio media with proper management of files. CSU
Offered Fall and Spring semesters

BCST 120. Audio Production (3)
Lec-52.5, Lab-17.5
Introduction to the theory and practice of audio production and recording techniques. Fundamentals of sound design, aesthetics, microphones, signal processing, and digital recording. Students gain hands-on experience in recording, editing, and mixing audio combined with basic knowledge of applied audio concepts, production workflow, equipment functions, audio editing software and career possibilities. CSU
C-ID FTVE 120
Offered Fall and Spring semesters

BCST 124A. Pro Tools Editing Essentials (2)
Lec-35
Prereq: BCST 119 or demonstration of BCST 119 exit skills
An introductory short-course to provide foundational skills necessary to edit audio using Digital Audio Workstations (DAWs) with a focus on Avid Pro Tools software. Overview of industry standard digital audio software and hardware. CSU
Formerly BCST124
Offered Fall and Spring semesters

BCST 124B. Pro Tools Mixing with Plugins (2)
Lec-35
Prereq: Completion of or concurrent enrollment in: BCST 120
Recommended Prep: Completion of or concurrent enrollment in: BCST 124A or demonstration of 124A exit skills
This beginning level course follows the 124A introduction to Pro Tools editing and further develops skills the students need to properly use digital signal processors in the final stage of mixing a multitrack digital project. CSU
Offered Fall and Spring semesters

BCST 125A. Music Recording Studio (2)
Lec-35, Lab-8, field trips
Prereq: BCST 120 or demonstration of exit skills
Recommended Prep: BCST 124A and BCST 124B
An introduction to the analog and digital multi-track techniques used in various stages of professional sound recording as well as the workflow and etiquette required in a professional recording studio environment. The processes of capturing basic tracks and overdubbing will be examined using tech-enhanced materials. CSU
Offered Fall semesters

BCST 125B. Music Mixing Studio (2)
Lec-35, Lab-8, field trips
Prereq: BCST 125A
Recommended Prep: BCST 124B
Project-based course designed as a continuation of BCST 125A for intermediate-level students focusing on their skills in professional sound recording and mixing. Practice in the development of workflow and etiquette required in a professional mixing studio environment will be further developed using tech-enhanced materials. CSU
Offered Fall semesters

BCST 127A. Surround and Immersive Sound Mixing (1)
Lec-12, Lab-24, field trips
Prereq: Completion of or concurrent enrollment in: BCST 120 and BCST 124B
Project-intensive course practicing the skills required for mixing audio in surround sound with a focus on a variety of immersive audio environments. Students learn to apply multi-channel audio plug-ins and the techniques used to mix to multiple speakers and binaural headphones for music mixes and sound-for-visual-media projects. CSU
Offered Fall semesters

BCST 127B. Interconnected Audio Systems (1)
Lec-17.5, Lab-8, field trips
Prereq: Completion of or concurrent enrollment in: BCST 128 or demonstration of exit skills
Recommended Prep: CNIT 106
Short course to demonstrate how to build, manage, and maintain interconnected audio systems using WiFi, Audio over Ethernet (AoE) and Audio over IP (AoIP) standards. CSU
This course will be offered in Spring semesters only.
Offered Spring semesters

BCST 128. Sound Reinforcement (3)
Lec-35, Lab-70, field trips
Prereq: Completion of or concurrent enrollment in: BCST 120
Live sound history, theory, technology, and craft skills with an emphasis on the technical manipulation of sound in acoustic spaces. Includes hands-on live sound production and operations for nightclubs, theaters, large-scale concert venues, and distributed sound systems. CSU
Offered Spring semesters

BCST 135. Audio for the Web/Podcasting (1)
Lec-22 P/NP available
Prereq: Completion of or concurrent enrollment in: BCST 119 or demonstration of exit skills
Recommended Prep: BCST 120
Students will create podcasts in this hands-on class which focuses on the technical considerations and content issues required to produce and deliver audio over the web. The student will research the history of audio on the web, and its impact on traditional broadcast media. CSU
Offered Fall and Spring semesters

BCST 136. Video for the Web (1)
Lec-22 P/NP available
Prereq: Completion of or concurrent enrollment in: BCST 119 or demonstration of exit skills
Recommended Prep: BCST 141
Students will create a vlog channel and episodes in this hands-on class focusing on technical considerations and content issues required to produce and deliver video content over the Internet. The student will research the history of video on the web, and its impact on traditional broadcast media. CSU
Offered Fall and Spring semesters

BCST 140. Studio Video Production (3)
Lec-35, Lab-70, field trips
Recommended Prep: BCST 119
Theory and operation of video production equipment and facilities. Video production planning and organization; concept development, and production management. Instruction in camera, audio, lighting, live switching, server operation as well as above-the-line roles such as writer, director, producer. Students acquire knowledge and skills by creating studio-based video programming. CSU
Can be applied to CSU SFSU BECA program as replacement for BECA 240
Offered Fall semesters

BCST 141. Field Video Production (3)
Lec-35, Lab-70, field trips
Recommended Prep: BCST 119
This course offers aesthetic and technical instruction in video field production with emphasis on industry phases of pre-production, video production, post-production. Students collaborate to create video programs outside a studio, learn common approaches to broadcast and online storytelling, and acquire skills in the operation of video cameras, location sound, and lighting equipment. CSU
C-ID FTVE 130
Offered Spring semesters

BCST 144A. Video Editing Premiere Intro (4)
Lec-52.5, Lab-52.5, field trips
Prereq: BCST 119 or demonstration of exit skills
Recommended Prep: BCST 140 or BCST 141
An introduction to digital video editing for television, video, and multimedia programs using primarily Adobe Premiere Pro and Apple Macintosh operating system. This hands-on class focuses on the operation, technology, techniques, and aesthetic process of editing video content with related title and visual effects components. CSU
Offered Spring semesters

BCST 144B. Video Editing Premiere Intermediate (4)
Lec-52.5, Lab-52.5, field trips
Prereq: BCST 144A or demonstration of exit skills
Recommended Prep: BCST 140 or BCST 141
Digital video finishing for television, video, and multimedia programs using primarily Adobe Premiere Pro and the Apple Macintosh operating system. This hands-on class focuses on deepening the experience and skill of the operation, technology, techniques, and aesthetic process of editing video content with related title and visual effects components. CSU
Offered Spring semesters

BCST 146A. Video Motion Graphics (4)
Lec-52.5, Lab-52.5, field trips
Prereq: BCST 143A or BCST 144A or VMD 150 or CINE 56 or PHOT 57 or PHOT 60A
Recommended Prep: BCST 141
Introduces students to core processes involved in conceptualizing and executing digital effects, compositing techniques, and motion graphics sequences. Concepts and skills are introduced, practiced, and integrated in projects in a hands-on, classroom/laboratory setting. Topics include layering, animating, compositing, effects, as well as technical and creative considerations. Formerly BCST 146. CSU
Formerly BCST 146. This course uses Adobe After Effects
Offered Fall semesters

BCST 146B. Video Motion Graphics - Intermediate (4)
Lec-52.5, Lab-52.5, field trips
Prereq: BCST 146A or demonstration of BCST 146A exit skills
Continuation course for intermediate level Motion Graphics students to further develop knowledge and skills in conceptualizing and executing digital effects, compositing and motion graphics projects for distribution in broadcast, cablecast, webcast and on mobile devices. Concepts and skills previously introduced in BCST 146A are expanded upon in a hands-on classroom/laboratory setting. CSU
This course uses Adobe After Effects.
Offered Fall semesters

BCST 147. Advanced Video Editing (4)
Lec-52.5, Lab-52.5, field trips
Prereq: BCST 143 or BCST 143A or BCST 144 or BCST 144A or CINE 56 or demonstration of exit skills
An advanced video editing course that builds on prior introductory classes. The focus is on understanding and practicing video editing processes and techniques across a variety of TV and video genres in order to

gain solid skills and work examples of current video technology as related to processes, storytelling, formats, visual effects, and hardware. CSU
This course meets requirements for the following BEMA certificates: Broadcast Motion Graphics Certificate of Achievement Video Editing and Post Production Certificate of Achievement
Offered on occasion

BCST 148. Intermediate Studio Video Production (2)
Lec-35, Lab-8, field trips
Prereq: BCST 140 or demonstration of exit skills
Recommended Prep: BCST 110 or BCST 115 or BCST 119 or BCST 141
A hands-on, project-oriented course teaching intermediate technical skills and aesthetics of studio production for TV. Students collaborate to develop, plan, and produce a video production segment in the TV studio. Students engage in all aspects of multi-camera video production including pre-production planning, multiple sound sources, lighting, and distribution. Students' projects air on San Francisco's Educational Access TV Channel 27. CSU
Formerly HDTV Studio Production
Offered Spring semesters

BCST 149. Intermediate Field Video Production (2)
Lec-35, Lab-8, field trips
Prereq: BCST 141 or demonstration of exit skills
Recommended Prep: BCST 110 or BCST 140 or BCST 144A
This project-oriented, hands-on course teaches intermediate technical skills and aesthetics of video field production. Students collaborate in teams to produce a commercial, documentary, and promotional package from concept to production. Field Production students collaborate with other departments to produce content college wide, applying storytelling techniques and deepening skills in video camera, location sound and lighting equipment operation. CSU
Formerly HDTV Video Production
Offered Spring semesters

BCST 150. Special Project (2)
Lab-105 P/NP available
Prereq: BCST 125A or BCST 126 or BCST 128 or BCST 127A or BCST 143A or BCST 144A or BCST 146A or BCST 147
Students apply theory and skills acquired in electronic media classes to an independent electronic media project acceptable to both student and instructor. Permission of instructor is required to register. CSU
Instructor approval of independent study proposal required
Offered on occasion

BCST 158. Social Media for Professionals (3)
Lec-52.5
Prereq: BCST 119 or demonstration of BCST 119 exit skill
Recommended Prep: CNIT 129
This course teaches how to use current social media tools such as Facebook, Twitter, Instagram, LinkedIn, and YouTube to develop, integrate and leverage social networks. Learn how to create professional brands, integrate social media into journalism and social justice, and will also critique current social media practices. Students will create a professional social media platform. CSU
Elective offered at the department's discretion

BCST 159. Digital Media Portfolio (1)
Lec-22, field trips P/NP available
Prereq: Completion of or concurrent enrollment in: BCST 119 or demonstration of exit skills
Students will develop and create an online portfolio to showcase creative projects suitable for gaining entry-level work in the Entertainment and Media industries. CSU
Offered Fall semesters

BCST 160. College Internship (1-8)
Work-60-600 P/NP available
Prereq: Approval of the Broadcast Electronic Media Arts Department; Completion of or concurrent enrollment in: BCST 163
Recommended Prep: BCST 119 and BCST 120 and (BCST 140 or BCST 141)
Repeat: Repeated up to 8.00 Units
Media related work experience and further career development in a supervised setting. On campus college work experience in college district media support services such as Broadcast Media Services, Educational Access Television, Audio Visual, Outreach and Recruitment Services and Marketing Public Information. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU
Formerly BCST 160A
Offered Fall and Spring semesters

BCST 163. Media Internship Preparation (1)
Lec-17.5 P/NP available
This course prepares the student to find and successfully complete a college based or industry based media internship. Students prepare a media resume, learn networking, time management, and interview skills. Students improve work based skills, research media jobs and prepare for media industry employment. CSU
Elective offered at the department's discretion

BCST 165. Industry Internship (1-8)
Work-60-600 P/NP available
Prereq: Approval of the Broadcast Electronic Media Arts Department; Completion of or concurrent enrollment in: BCST 163
Recommended Prep: BCST 125A or BCST 126 or BCST 128 or BCST 146 or BCST 147 or BCST 148 or BCST 149
Repeat: Repeated up to 8.00 Units
Media related work experience and further career development in a supervised setting. Work experience in an approved industry facility such as a television station, a sound recording studio or business, a webcast enterprise, a radio station, a video production company, a corporate media production enterprise, and/or a multimedia/transmedia production team. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU
Formerly BCST 165A
Offered Fall and Spring semesters

Business

Office: Cloud 105
Phone Number: (415) 239-3203
Web Site: *www.ccsf.edu/business*

Announcement of Curricula

General Information

The Business Department offers two-year degree programs in accounting, administrative support, general business, finance, marketing, paralegal/legal studies and real estate. Credit certificate programs

are available in real estate, microcomputer accounting, general business, finance, international business, marketing, paralegal/legal studies, office technology and real estate. Noncredit (no tuition fees) two semester certificate programs are available in various areas of administrative/office support, computerized accounting, computer applications, and small business. In addition, a variety of mini-certificates in areas such as word processing (Word), spreadsheets (Excel), web pages for business, and office publishing can be earned in less than a semester.

Admission. Enrollment in the Business Program is open to all interested students. In some curricula, however, students must satisfy prerequisites before being admitted to certain courses.

Instruction in Business and General Education. Training is designed to help students acquire a high degree of technical skill, familiarize themselves with business principles and procedures, and develop the sense of responsibility essential to success. Each curriculum in the Credit Business Programs includes instruction in both a major field and related subjects such as business correspondence, speech, and business mathematics. Instruction in general education is included so that students may satisfy the College graduation requirements in this area.

Work Experience Training. Students enrolled in the Credit Business Programs may obtain credit for experience in their major fields by enrolling in work experience courses. Students are supervised by both employers and instructors.

Students may offer toward graduation a maximum of six semester units of credit earned in off- or on-campus work-experience courses or in any combination of both.

Associate in Science Degree. The Business Department offers majors in accounting, administrative support, general business, finance, marketing, paralegal/legal studies and real estate. Students who complete all courses required for their major and satisfy general College graduation requirements will receive the Associate in Science Degree.

Transfer Information. The Business Department offers the Associate in Science in Business Administration for Transfer. Students in the Business Program who intend to transfer to other colleges or universities should consult their academic advisers and their counselors and should consult the section of this catalog entitled, "Transfer Information."

Noncredit Certificate Programs. These programs provide directed training for employment in the modern office. Computer skills, communication skills, and job preparation courses are emphasized in the noncredit sequences to prepare students for entry-level, clerical employment.

Programs Offered:

Accounting

Major:
- Accounting

Credit Certificate:
- Computer Accounting

Administrative Support/Office Technology

Credit Certificate:
- Microsoft Office Specialist

Entrepreneurship

Credit Certificate:
- Entrepreneurship and Innovation in Business

General Business

Majors:
- Business Administration 2.0 Major for Transfer
- General Business

Credit Certificate:
- General Business

Management

Majors:
- Human Resources Management
- Supervision and Management

Credit Certificates:
- Human Resources Management
- Supervision and Management

Marketing

Major:
- Marketing

Credit Certificate:
- Marketing

Paralegal/Legal Studies

Major:
- Paralegal/Legal Studies

Credit Certificate:
- Paralegal/Legal Studies

Real Estate

Major:
- California Real Estate

Credit Certificate:
- California Real Estate

Small Business

Noncredit Certificate:
- Small Business

Accounting

Accounting Major (AS)

Students who satisfactorily complete the curriculum in Accounting, a two-year course of study, are qualified for employment as junior accountants in private, public, and civil-service accounting and as junior auditors in private and civil-service accounting. The program also gives graduates skills which would lead to many opportunities for career advancement.

The course of study includes instruction in principles of accounting, intermediate accounting, auditing, cost accounting, microcomputer accounting, and income-tax procedure.

Learning Outcomes

Upon completion of this program, students will be able to:

- Develop and maintain a financial information system
- Apply uniform commercial law to common business transactions
- Generate and analyze management reports
- Analyze and explain financial statements in oral and written communication
- Prepare individual federal and California income tax returns

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Accounting

Course	Units
First Semester:	
ACCT 1 Financial Accounting	5.0
MABS 60 Introduction to Computer Applications for Business	3.0
BSMA 68 Mathematics of Business	3.0
Second Semester:	
ACCT 2 Managerial Accounting	5.0
BSEN 74 Written Business Communication	3.0
ACCT 59 Federal Income Tax	3.0
MABS 101 Microsoft Excel	3.0
Third Semester	
BSL 1 Business Law I	3.0
ACCT 51 Intermediate Accounting	5.0
ACCT 55 Cost Accounting	3.0
ACCT 53 Accounting with Sage 50	3.0
ACCT 59B California Income Tax	1.0
Fourth Semester	
BSL 2 Business Law II	3.0
ACCT 52 Intermediate Accounting	5.0
ACCT 54 Auditing	3.0
CRER 62 Successful Job Search Techniques	1.0
Total:	**52.0**

Computer Accounting Certificate

Prepares students to enter the job market in positions that use a computerized accounting system for Accounts Receivable, Accounts Payable, Payroll, General Ledger, and other functions. Admission: Enrollment is open to all interested students.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and record transactions following the appropriate accounting guidelines.
- Design, set up and maintain an accounting system that utilizes accounting and business software.
- Generate and analyze computerized accounting reports, financial statements, and payroll reports.
- Identify and plan for computer accounting employment options appropriate to one's skills

Students may obtain the Certificate of Achievement in Computer Accounting by completing each of the following courses with a final grade of "C" or higher.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Computer Accounting

Course	Units
Required courses:	
ACCT 53 Accounting with Sage 50	3.0
ACCT 57 Accounting with QuickBooks	3.0
MABS 60 Introduction to Computer Applications for Business	3.0
MABS 101 Microsoft Excel	3.0
BSMA 68 Mathematics of Business	3.0
CRER 62 Successful Job Search Techniques	1.0
Choose one of the following accounting courses:	
ACCT 10 Introduction to Accounting	5.0
ACCT 1 Financial Accounting	5.0
Total:	**21.0**

Administrative Support/Office Technnology

Microsoft Office Specialist Certificate

Completion of this certificate allows students to demonstrate competency in Microsoft Office programs by passing the Microsoft Office Specialist (MOS) exams for Word, Excel, Access, PowerPoint, and Outlook. The MOS certification credential is a globally recognized standard demonstrating software skills widely used in current office environments. Students will also learn essential soft skills which are key to building relationships, gaining visibility, and creating more opportunities for career advancement.

Learning Outcomes

Upon completion of this program, students will be able to:

- Manage advanced Outlook email features and collaborative information management tools.
- Create and manage professional Word documents for a variety of specialized purposes and situations.
- Construct, manage, and distribute professional Excel spreadsheets for business use.
- Use Access for database management design.
- Design, edit, and enhance PowerPoint presentations and slideshows.
- Apply soft skills needed for workplace success.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Microsoft Office Specialist

Course	Units
Required	
MABS 50 Microsoft Outlook and OneNote	3.0
MABS 391 Word Processing/Microsoft Word	3.0
MABS 101 Microsoft Excel	3.0
MABS 202 PowerPoint Presentations	3.0
MABS 67 Database for Business/Microsoft Access	3.0
GNBS 100 Essential Skills for Business Professionals	1.0
Total:	**16.0**

Entrepreneurship

Entrepreneurship and Innovation in Business Certificate

This certificate program is designed to prepare Business students to engage in the world of entrepreneurship. The program's interdisciplinary approach to entrepreneurship equips students with relevant tools in exploring various pathways to entrepreneurship such as full-time business ownership, sub-contracting (freelancing), consulting, corporate intrapreneurship or mission-driven social entrepreneurship.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply an entrepreneurial mindset that breeds business creativity and innovation.
- Use terms and concepts related to functional areas of entrepreneurship necessary for startups.
- Analyze the marketing environment to identify entrepreneurial opportunities and areas for growth and development.
- Develop an agile and lean business plan for startup project/enterprise that is ready for pitching.
- Compare different entrepreneurship pathways in relation to a project or business idea.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Entrepreneurship and Innovation in Business

Course	Units
Required	
ENTR 101 Introduction to Entrepreneurship	3.0
ENTR 102 Applied Design Thinking for Entrepreneurship	1.5
DSGN 105 Design Thinking	1.5
MRKT 140 Introduction to Marketing	3.0
Choose a minimum of 9 units from the following Business courses	
ENTR 103 Social Entrepreneurship	3.0
BSL 1 Business Law I	3.0
GNBS 119 Introduction to Business	3.0
MGT 231 Introduction to Supervision and Management	3.0
MABS 60 Introduction to Computer Applications for Business	3.0
MRKT 122 Professional Selling	3.0
Total:	**18.0**

General Business

Business Administration 2.0 Major (AS-T)

The Associate in Science in Business Administration 2.0 for Transfer is designed to prepare students who wish to transfer to pursue a baccalaureate degree in Business Administration, Business Management or General Business, particularly to the California State University system. This program provides the academic foundation required for various areas of business, such as accounting, management, finance, and marketing.

Learning Outcomes

Upon completion of this program, students will be able to:

- Examine the external forces that impact business decisions.
- Analyze information and data to solve problems and make decisions.
- Apply standards of professional practice and demonstrate awareness of ethical and social responsibilities in today's business environment.
- Utilize business terms and concepts related to functional areas of business.

Degree Requirements. Students who wish to earn the Associate in Science in Business Administration 2.0 for Transfer (AS-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AS-T in Business Administration 2.0

Course	Units
Required Courses	
ACCT 1 Financial Accounting	5.0
ACCT 2 Managerial Accounting	5.0
ECON 3 Principles of Microeconomics	3.0
ECON 1 Principles of Macroeconomics	3.0
BSL 1 Business Law I	3.0
GNBS 119 Introduction to Business	3.0
Math: Choose ONE of the following math courses	
MATH 75 Mathematical Analysis for Business	3.0
MATH 100A Short Calculus I	3.0
Statistics: Choose ONE of the following statistics courses	
ECON 5 Introductory Statistics for Economics, Business and Social Sciences	5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
MATH 80 Probability and Statistics	5.0
PSYC 5 Statistics for Behavioral Sciences	5.0
Total:	**30.0**

General Business Major (AS)

This major allows students to earn the Associate Degree while partially preparing them for transfer into the Business Administration major at a four-year college or university. In addition, it prepares the student for an entry-level position in any business office.

Learning Outcomes

Upon completion of this program, students will be able to:

- Employ high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multicultural, team-oriented, rapidly-changing environment.
- Apply terms and concepts related to functional areas of business.
- Examine the external forces that impact business decisions.
- Analyze information to solve problems to make effective business decisions.
- Analyze the impact of globalization on business and the diverse world of global business.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in General Business

Course	Units
Required	
ACCT 1 Financial Accounting	5.0
ACCT 2 Managerial Accounting	5.0
BSL 1 Business Law I	3.0
ECON 1 Principles of Macroeconomics	3.0
ECON 3 Principles of Microeconomics	3.0
GNBS 119 Introduction to Business	3.0
MABS 60 Introduction to Computer Applications for Business	3.0
Choose five units from the following	
ECON 5 Introductory Statistics for Economics, Business and Social Sciences	5.0
MATH 80 Probability and Statistics	5.0
Total:	**30.0**

General Business Certificate

This field of concentration is designed to acquaint the student with the business world in general. Students with definite career/educational goals are encouraged to follow the appropriate curriculum guide for their specific field of concentration such as Accounting, Finance, Marketing, Real Estate, etc.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use business terms and concepts related to functional areas of business.
- Explain the economic, technological, and regulatory forces that impact business decisions.
- Exhibit high standards of professional practice and fulfill ethical and social responsibilities in a multi-cultural, team-oriented, rapidly-changing environment.
- Analyze and interpret data to solve problems and make business decisions.
- Analyze the impact of globalization on business and the diverse world of global business.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in General Business

Course	Units
Required	
BSL 1 Business Law I	3.0
ECON 1 Principles of Macroeconomics	3.0
GNBS 119 Introduction to Business	3.0
MABS 60 Introduction to Computer Applications for Business	3.0
Choose one of the following Accounting courses:	
ACCT 10 Introduction to Accounting	5.0
ACCT 1 Financial Accounting	5.0
Recommended additional coursework:	
BSMA 68 Mathematics of Business	3.0
MRKT 140 Introduction to Marketing	3.0
MGT 231 Introduction to Supervision and Management	3.0
BSEN 74 Written Business Communication	3.0
FIN 136 Personal Financial Planning	3.0
Total:	**17.0**

Management

Human Resources Management Major (AS)

The Human Resources Management (HRM) program is for those who wish to advance their knowledge in human resources and are interested in entering or transitioning into the human resources career, as well as for other leaders or small business owners who wish to gain general HRM skills to better manage and motivate employees.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify the laws relevant to avoiding discrimination in human resources management to support a diverse workforce.
- Explain the process and procedures involved in staffing and employee engagement to meet organizational goals and objectives.
- Determine appropriate HR communication channels to strategically send messages.
- Explain the legal ramifications of ethics, social responsibility, and sustainability in the global business environment.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Human Resources Management

Course	Units
Required	
MGT 231 Introduction to Supervision and Management	3.0
MGT 232 Organizational Behavior for Supervisors	3.0
MGT 233 Human Resources Management	3.0
MGT 234 Communication for Business Management	3.0
MGT 238 Introduction to Employment Law	3.0
GNBS 100 Essential Skills for Business Professionals	1.0
GNBS 120 Business Ethics and Social Responsibility	3.0
Total:	**19.0**

Supervision and Management Program Major (AS)

The Supervision and Management program (SAM) is designed to comprehensively cover the major aspects of supervision and management necessary to advance and succeed in the business economy. Course work will cover the basic business management skills with emphasis on human relations, leadership, and communications designed to meet the needs of those who are (1) preparing for supervisory positions, (2) seeking advancement opportunities, and (3) planning to own and operate their own business. This program prepares students to move into positions as supervisors, team leaders, or managers. Students will become proficient in problem solving, decision-making, communicating, managing people, working in groups and teams, and understanding and applying basic managerial skills.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the functions and roles of management to achieve organizational success.
- Apply theories of behaviors to workplace situations.

- Apply effective communication skills.
- Determine the appropriate human resources procedures and processes for various situations.
- Integrate critical thinking and problem solving in making strategic decisions.
- Discuss practices to minimize bias and promote equity in the workforce.
- Maintain and improve technological and interpersonal skills for professional development.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Supervision and Management Program

Course	Units
Required	
MGT 231 Introduction to Supervision and Management	3.0
MGT 232 Organizational Behavior for Supervisors	3.0
MGT 233 Human Resources Management	3.0
MGT 234 Communication for Business Management	3.0
MGT 235 Organizational Leadership	3.0
GNBS 100 Essential Skills for Business Professionals	1.0
Choose one of the following courses:	
BSL 1 Business Law I	3.0
GNBS 119 Introduction to Business	3.0
Choose one of the following computer application courses:	
MABS 60 Introduction to Computer Applications for Business	3.0
MABS 101 Microsoft Excel	3.0
Total:	**22.0**

Human Resources Management Certificate

The Human Resources Management (HRM) certificate is for those who wish to advance their knowledge in human resources and are interested in entering or transitioning into a human resources career, as well as for other leaders or small business owners who wish to gain general HRM skills to better manage and motivate employees.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify the roles and responsibilities of management, including support of a diverse workforce.
- Explain the process and procedures involved in staffing and employee engagement to meet organizational goals and objectives.
- Determine appropriate HR communication channels to send messages strategically.
- Explain the legal ramifications of ethics, social responsibility, and sustainability in the global business environment.

Credit Toward Graduation. All credits that students earn in obtaining the Certificate of Achievement in Human Resources Management may be applied toward satisfaction of the requirement for graduation from the college.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Human Resources Management

Course	Units
Required Courses	
MGT 231 Introduction to Supervision and Management	3.0
MGT 232 Organizational Behavior for Supervisors	3.0
MGT 233 Human Resources Management	3.0
GNBS 100 Essential Skills for Business Professionals	1.0
GNBS 120 Business Ethics and Social Responsibility	3.0
Choose one of the following courses	
MGT 234 Communication for Business Management	3.0
or BSEN 74 Written Business Communication	3.0
Total:	**16.0**

Supervision and Management Certificate

Companies want professionals who possess the ability to effectively supervise, manage, and lead others. The Supervision and Management (SAM) program is designed for professionals wanting to gain a mix of theoretical and practical management knowledge and skills such as effective communication, strong leadership, critical thinking, problem solving, performance management, and team building to achieve and fulfill their career goals.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the functions and roles of management to achieve organizational success.
- Apply theories of behaviors to workplace situations.
- Apply effective communication skills.
- Determine the appropriate human resources procedures and processes for various situations.
- Integrate critical thinking and problem solving in making strategic decisions.
- Discuss practices to minimize bias and promote equity in the workforce.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Supervision and Management

Course	Units
Required	
MGT 231 Introduction to Supervision and Management	3.0
MGT 232 Organizational Behavior for Supervisors	3.0
MGT 233 Human Resources Management	3.0
MGT 234 Communication for Business Management	3.0
MGT 235 Organizational Leadership	3.0
GNBS 100 Essential Skills for Business Professionals	1.0
Total:	**16.0**

Marketing

Marketing Major (AS)

The curriculum in Marketing, a two-year course of study, offers students interested in careers in marketing, advertising, social media

marketing, professional selling, consumer behavior and other marketing jobs specialized training for career advancement and employment. The Marketing curriculum combines classroom instruction, practical experiences, coordinated part-time employment, and internships.

Learning Outcomes

Upon completion of this program, students will be able to:

- Understand and communicate basic marketing concepts and the role of marketing within organizations and in the marketplace.
- Develop critical thinking and analytical skills for solving marketing problems.
- Design marketing strategies that effectively coordinate with other functional areas using effective principles of integrated marketing, entrepreneurship, consumer behavior, and social media marketing.
- Create powerful brands and communication programs for long-term business growth and customer affinity.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Marketing

Course	Units
Required	
MRKT 122 Professional Selling	3.0
MRKT 140 Introduction to Marketing	3.0
MRKT 150 Consumer Behavior	3.0
MRKT 170 Advertising and Integrated Marketing Communication	3.0
MRKT 180 Social Media Marketing	3.0
ENTR 101 Introduction to Entrepreneurship	3.0
Choose one of the following media studies options	
MABS 408 Website Builder for Business Portfolio/Productivity	3.0
VMD 105 Visual Media Digital Skills	3.0
BCST 119 Digital Media Skills	3.0
Choose one of the following management options	
MGT 231 Introduction to Supervision and Management	3.0
GNBS 119 Introduction to Business	3.0
BCST 158 Social Media for Professionals	3.0
Total:	**36.0**

Marketing Certificate

A certificate in Marketing prepares students for an entry-level job in marketing, brand management, integrated marketing communications, consumer behavior market research and analytics, professional selling and digital and social media marketing.

Learning Outcomes

Upon completion of this program, students will be able to:

- Communicate basic marketing concepts and the role of marketing within organizations and in the marketplace.
- Develop critical thinking and analytical skills for solving marketing problems.
- Design marketing strategies that effectively coordinate with other functional areas using effective principles of integrated marketing, entrepreneurship, consumer behavior, and social media marketing.
- Create powerful brands and communication programs for long-term business growth and customer affinity.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Marketing

Course	Units
Required	
MRKT 122 Professional Selling	3.0
MRKT 140 Introduction to Marketing	3.0
MRKT 150 Consumer Behavior	3.0
MRKT 170 Advertising and Integrated Marketing Communication	3.0
MRKT 180 Social Media Marketing	3.0
ENTR 101 Introduction to Entrepreneurship	3.0
Total:	**18.0**

Paralegal/Legal Studies

Paralegal/Legal Studies Major (AS)

The program of study for the Associate in Science degree in Paralegal/Legal Studies is ABA-approved and complies with the requirements established under current California law to become a paralegal. NOTE: Paralegals may not provide legal services directly to the public except as permitted by law.

The major is designed for students who do not already hold a college degree. Upon completion, a student will satisfy the general education requirements and paralegal course requirements simultaneously to earn both the AS degree and the Certificate of Achievement to gain employment as a paralegal working under the supervision of an attorney. (The paralegal certificate is ONLY awarded upon completion of the general education requirements for the Associate degree.)

Students are taught how to write and communicate in formats acceptable in today's law offices; how to locate and apply the proper laws; how to handle the ethical issues facing today's legal professionals; how to navigate through the federal and California court systems; and how to operate within a law office. This program provides practical skills in law office software and business practices as well as instruction in the areas of substantive law.

General Education Requirements by the ABA. The ABA has general requirements that are different than those required by CCSF. If you have questions on the general education requirements, please call 415/239-3508 to speak to the Paralegal/Legal Studies Program Coordinator. Currently, the ABA does NOT accept courses approved for CCSF's General Education areas as follows:

Area A: Business English, Business Mathematics, Computer Science, Design, Microcomputer Applications for Business, and Supervision and Management

Area C: Nutrition and Ornamental Horticulture

Area D: Academic Achievement Personal Success, Health Education, and Physical Education

Area E: Design

Area G: Culinary Arts, Health Education, Nutrition, and Physical Education

Area H: Health Education, Physical Education, and Supervision and Business Management

Learning Outcomes

Upon completion of this program, students will be able to:

- Locate and apply the proper laws for the legal situation given.
- Prepare and file pleadings in both the federal and California court systems.
- Use law office software efficiently.

Admission Requirements. Enrollment is open to all interested students who have completed ENGL 1A or its equivalent with a final grade of C or higher. Students transferring general education coursework completed at another school must furnish an official transcript.

Students may transfer up to 12 units of paralegal courses completed at another ABA-approved paralegal program provided that the student submit an official transcript verifying the following: (1) the courses are similar in content and contact hours to our existing courses and (2) the letter grade earned in such courses was a C or higher. Courses completed in a law school are not acceptable for transfer as these courses do not emphasize or teach paralegal skills. The Program reserves the right to determine the transferability of any coursework completed outside City College of San Francisco.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Paralegal/Legal Studies

Course	Units
Required	
PLS 1 Introduction to Paralegal Studies	3.0
PLS 2 Legal Research and Writing I	3.0
PLS 3 Legal Research and Writing II	3.0
PLS 4 Litigation I	3.0
PLS 5 Litigation II	3.0
PLS 6 Law Office Management and Procedures	3.0
Choose 12 units from the following	
BSL 1 Business Law I	3.0
BSL 2 Business Law II	3.0
PLS 7 Corporate Law	3.0
PLS 9 Wills, Trusts, and Probate Administration	3.0
PLS 12 Family Law	3.0
PLS 13 Intellectual Property	3.0
PLS 14 Immigration Law	3.0
PLS 16 Paralegal Work Experience	3.0
Total:	**30.0**

Paralegal/Legal Studies Certificate

The program of study for the Certificate of Achievement in Paralegal/Legal Studies is ABA-approved and complies with the requirements established under current California law to become a paralegal. NOTE: Paralegals may not provide legal services directly to the public except as permitted by law.

The certificate program is designed for students who already hold a college degree and wish to earn just a paralegal certificate to gain employment as a paralegal working under the supervision of an attorney. Students are taught how to write and communicate in formats acceptable in today's law offices; how to locate and apply the proper laws; how to handle the ethical issues facing today's legal professionals; how to navigate through the federal and California court systems; and how to operate within a law office. This program provides practical skills in law office software and business practices as well as instruction in the areas of substantive law.

Learning Outcomes

Upon completion of this program, students will be able to:

- Locate and apply the proper laws for the legal situation given.
- Prepare and file pleadings in both the federal and California court systems.
- Use law office software efficiently.

Admission Requirements. Enrollment is open to all interested students who already hold a college degree OR who have completed 30 units of general education or law-related courses with a 2.0 grade point average or higher at an accredited, post-secondary school prior to admission into our paralegal program. In addition, all students entering the Certificate of Achievement in Paralegal/Legal Studies program must have completed ENGL 1A or its equivalent with a final grade of C or higher. Students transferring general education coursework completed at another school must furnish an official transcript.

Students may transfer up to 12 units of paralegal courses completed at another ABA-approved paralegal program provided that the student submit an official transcript verifying the following: (1) the courses are similar in content and contact hours to our existing courses and (2) the letter grade earned in such courses was a C or higher. Courses completed in a law school are not acceptable for transfer as these courses do not emphasize or teach paralegal skills. The Program reserves the right to determine the transferability of any coursework completed outside City College of San Francisco.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Paralegal/Legal Studies

Course	Units
Required	
PLS 1 Introduction to Paralegal Studies	3.0
PLS 2 Legal Research and Writing I	3.0
PLS 3 Legal Research and Writing II	3.0
PLS 4 Litigation I	3.0
PLS 5 Litigation II	3.0
PLS 6 Law Office Management and Procedures	3.0
Choose 9 units from the following	
BSL 1 Business Law I	3.0
BSL 2 Business Law II	3.0
PLS 7 Corporate Law	3.0
PLS 9 Wills, Trusts, and Probate Administration	3.0
PLS 12 Family Law	3.0
PLS 13 Intellectual Property	3.0
PLS 14 Immigration Law	3.0
PLS 16 Paralegal Work Experience	3.0
Total:	**27.0**

Real Estate

California Real Estate Major (AS)

The curriculum in Real Estate, a two-year course of study, is designed to give students a sound foundation in theory and practice so that they may hold a position specialized in realty work, and to help them obtain the California real estate salesperson's license. The curriculum is approved by the Department of Real Estate of the State of California, the California Association of Realtors, and the San Francisco Board of Realtors.

Entry positions open to graduates who pass the California State examination for a salesperson's or broker's license include those of sales agent, rental agent, or property manager for a bank or land-development company; or in the property department of a corporation, a savings-and-loan company, or an insurance company. Graduates may also search titles and close transactions in the escrow departments of any of these establishments or for escrow companies.

Students interested in obtaining a real estate salesperson's or a broker's license may obtain information by visiting the the State of California Department of Real Estate website at ***www.dre.ca.gov***

The course of study includes instruction in the following: principles of real estate, real estate practice, real estate economics and investments, legal aspects of real estate, principles of real estate appraisal, and principles of real estate finance.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the principles and practice of real estate in California.
- Apply critical thinking and analytical skills of California real estate concepts.
- Explain California real estate contracts, disclosures and procedures.
- Apply real estate ethics as outlined in business and professional code of conduct.
- Analyze and evaluate the financial suitability of real estate opportunities.

Students must satisfy the City College graduation requirements and must complete the following courses.

Assuming students start this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in California Real Estate

Course	Units
Required	
R E 181 Principles of Real Estate	3.0
R E 185 Legal Aspects of Real Estate	3.0
R E 184 Real Estate Practice	3.0
R E 186 Principles of Real Estate Finance	3.0
R E 189 Real Estate Economics	3.0
R E 191 Principles of Real Estate Appraisal	3.0
Total:	**18.0**

California Real Estate Certificate

The California Real Estate Certificate is currently awarded by 70 community colleges in California. City College of San Francisco participates in this Statewide program and awards the California Real Estate Certificate to any day or evening student who completes this prescribed program.

A student may complete only those courses required for the California Real Estate Certificate, since this is awarded independently of the Associate in Science degree. However, students who complete the full course of study leading to that degree will have completed the requirements for, and may be awarded, the California Real Estate Certificate.

The Certificate of achievement is designed so that those seeking entry employment may prepare themselves to take the State licensing examination for real estate salespersons, and so that those already employed in various branches of real estate work may gain further knowledge and develop additional competence.

Learning Outcomes

Upon completion of this program, students will be able to:

- Define an overview of the basic concepts of California Real Estate.
- Apply tools learned to the California Real Estate market place.
- Apply knowledge of agency and fiduciary responsibility.
- Explain real estate opportunities and risk.
- Identify and understand key real estate terms.
- Qualify to take the California Department of Real Estate State Exam.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in California Real Estate

Course	Units
Required	
R E 181 Principles of Real Estate*	3.0
R E 184 Real Estate Practice	3.0
R E 185 Legal Aspects of Real Estate	3.0
R E 186 Principles of Real Estate Finance	3.0
R E 189 Real Estate Economics	3.0
R E 191 Principles of Real Estate Appraisal	3.0

* If the candidate for the California Real Estate Certificate holds a valid California real estate salesperson's or broker's license, a three-unit course in real estate or another area of business may be substituted in lieu of RE 181.

Choose 6 units from the following courses	
R E 182 Escrow Fundamentals	3.0
R E 183 Real Estate Property Management	3.0
R E 187 Real Estate Taxation	3.0
R E 192 Advanced Real Estate Appraisal	3.0
Total:	**24.0**

Small Business

Small Business Certificate of Competion

The Small Business Certificate prepares students for a successful launch of their own small business and helps small business owners increase the effectiveness and operation of their business marketing, planning, technology, finance, and communications.

Learning Outcomes

Upon completion of this program, students will be able to:

- Plan and execute various activities required for the successful launch of a small business.
- Research and create the plans necessary for the successful funding and ongoing management of a small business.

The minimum time for completion of this certificate is 1 semester.

Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Completion in Small Business

Course	Hours
Required courses:	
SMBU 9419 Developing a Business Plan	18.0
SMBU 9467 Getting Started in Business	18.0
Choose two of the following elective courses:	
SMBU 9888 Small Business Funding	18.0
SMBU 9476 Green and Sustainable Small Business	18.0
SMBU 9793 Small Business Marketing and Sales	18.0
SMBU 9799 Technology for Small Business	18.0
Total:	**72.0**

Announcement of Courses

Accounting

Credit, Degree Applicable Courses:

ACCT 1. Financial Accounting (5)
Lec-87.5
Recommended Prep: (Readiness for college-level English or ESL 186) and BSMA 68
Introduction to accounting information system and recording and reporting of business transactions with a focus on the accounting cycle, terminology, application of basic principles and theories, classified financial statements and statement analysis for decision makers. Includes issues relating to balance sheet valuations, revenue and expense recognition and cash flows. UC/CSU
C-ID ACCT 110

ACCT 2. Managerial Accounting (5)
Lec-87.5
Prereq: ACCT 1
Fundamental concepts and applications of managerial accounting techniques in the business world. Cost determination, cost analysis and control, performance evaluation, and the preparation and use of economic information for internal management purposes. UC/CSU
C-ID ACCT 120

ACCT 10. Introduction to Accounting (5)
Lec-87.5
Recommended Prep: Readiness for college-level English or ESL 188
Designed to meet the needs of students in specific occupational programs and as an exploratory course to determine student interest and aptitude in accounting. Emphasis on the principles of double-entry bookkeeping, business and accounting terminology, and the use of various accounting worksheets to calculate and prepare accounting and business reports. CSU
ACCT 1 may be elected in lieu of ACCT 10 to satisfy the requirement in any curriculum in business.

ACCT 51. Intermediate Accounting (5)
Lec-87.5
Recommended Prep: ACCT 2
Designed for students who pursue accounting beyond introductory study. A rapid review of fundamentals, with problems in valuation and presentation of assets, and liabilities, together with a study of analytical procedures. Course meets the educational requirements for the Certified Public Accountant (CPA) exam as determined by the California State Board. CSU

ACCT 52. Intermediate Accounting (5)
Lec-87.5
Prereq: ACCT 51
Designed for students who pursue accounting beyond introductory study. Course topics include investments, revenue recognition, income taxes, accounting changes, and error analysis. This course may help meet the educational requirement for the Certified Public Accountant (CPA) exam as determined by the California State Board of Accountancy. CSU
Offered Spring semesters

ACCT 53. Accounting with Sage 50 (3)
Lec-52.5
Prereq: ACCT 10 or ACCT 1.
Recommended Prep: MABS 60 AND BSMA 68.
Design, setup, and implementation of an accounting system in Sage 50 while following Generally Accepted Accounting Principles. Topics include accounts receivable, accounts payable, payroll, general ledger, financial statement analysis, and the comparison, analysis, and use of computer accounting software systems. CSU

ACCT 54. Auditing (3)
Lec-52.5
Recommended Prep: ACCT 2
Designed for students who are pursuing accounting beyond introductory study. Covers the objectives, scope and history of external auditing for financial statements. Qualifies as meeting a part of the educational requirements for the Certified Public Accountant exam as determined by the California State Board of Accountancy. CSU

ACCT 55. Cost Accounting (3)
Lec-52.5
Recommended Prep: ACCT 2
Fundamental accounting procedures covering job order, process, and standard cost systems; budgetary control; direct costing; cost reports for management use. CSU

ACCT 56. Municipal Governmental Accounting (3)
Lec-52.5 P/NP available
Prereq: ACCT 1
Recommended Prep: ACCT 51
A study of the practices and methods of municipal governmental accounting encompassing terminology, reporting requirements, recording methods and the uses of funds. CSU
Offered Spring semesters

ACCT 57. Accounting with QuickBooks (3)
Lec-52.5
Prereq: ACCT 10 or 1
Design and operate an accounting system using Quickbooks software while following Generally Accepted Accounting Principles. Topics include implementing an accounting system for a new company, preparing reports on customer and sales activities, employee and payroll activities and purchase transactions. CSU

ACCT 58. Accounting Ethics (3)
Lec-52.5 P/NP available
Prereq: ACCT 1
Ethical standards of the accounting profession with emphasis on contemporary issues confronting accountants and auditors including their social and ethical responsibilities. Topics include the history of ethical thought, tax and auditing fiduciary responsibilities, the America Institute of Certified Public Accountants Code of Professional Conduct, financial

statement representations, and the theoretical and practical application of ethical principles in business and accounting. CSU

ACCT 59. Federal Income Tax (3)
Lec-52.5 P/NP available
Designed for students who want to pursue the study of tax accounting or who want to prepare their own individual tax returns. Topics include tax filing requirements, gross income, itemized deductions, capital gains and losses. Helps to prepare students to meet requirements for the Certified Public Accountant (CPA) exam. CSU

ACCT 59B. California Income Tax (1)
Lec-18 P/NP available
Prereq: ACCT 59 or demonstration of exit skills
Study of California State Income Tax law, income tax problems, and preparation of California income tax returns. CSU

Business English

Credit, Degree Applicable Courses:

BSEN 74. Written Business Communication (3)
Lec-52.5 P/NP available
Recommended Prep: BSEN 70 or ESL 188 or readiness for college-level English
Extensive practice in writing and editing business letters, memorandums, e-mail messages, social media messages, and other business documents. Class discussions on style, structure, goals of written business communication, and cultural diversity in business. Practice in using appropriate vocabulary and tone in business documents. CSU

Noncredit Courses:

BOSS 4510. Business Communications (45 hrs)
Recommended Prep: BOSS 4500 or ESLN 3800
A lecture-lab course to develop basic writing skills for the business world. Topics include the business writing process, various business audiences, and skills to improve writing, as well as practice writing emails, letters, instructions, and summaries.

BOSS 4515. Business Writing for Digital Media (45 hrs)
Recommended Prep: Completion of or concurrent enrollment in: BOSS 4510
A hands-on course to develop skills in business writing for digital platforms. Topics include the interactive nature of digital business communication, internet research, multi-media storytelling, writing for business websites, and business use of social media.

Business Law

Credit, Degree Applicable Courses:

BSL 1. Business Law I (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Study of the nature, purpose, and sources of law; the historical development of the law and its function with respect to society and business; contracts, agency, tort, criminal law, business ethics, corporation, partnership and legal concepts. UC/CSU
C-ID BUS 125
Formerly CLW 18

BSL 2. Business Law II (3)
Lec-52.5
Prereq: BSL 1
Continued study of concepts and practices introduced in Business Law I with a focus on sales, regulation of business, real property, community property, environmental law, employment law, bailment law, wills and trusts, and security regulations. UC/CSU
Formerly Business Law 2

Business Mathematics

Credit, Degree Applicable Course:

BSMA 68. Mathematics of Business (3)
Lec-52.5 P/NP available
Recommended Prep: (MATH 30 or MATH 43 or MATH 75)
Completion of or concurrent enrollment in: (MABS 60 or MABS 101)
A study of mathematical problems in business including Accounting (payroll, depreciation, inventory, financial statements), Finance (Investments, Time Value of Money, simple and compound interest), Marketing (metrics, ROI), and the use of graphs and tables. While this class will include a basic introduction to performing calculations using spreadsheet software, no background is required. CSU

Commercial Law*

* See Business Law.

Computer Applications for Business

Credit, Degree Applicable Courses:

MABS 30. Computer Keyboarding (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 184 or placement in ESL 186 or higher
Students learn to keyboard by touch on the computer for efficiency in executing routine business tasks. Topics include searching the Internet, maintaining electronic files, and using business applications. Course also includes basic computer concepts of hardware, software, and the operating system. CSU

MABS 35. Keyboarding: Speedbuilding (1.5)
Lab-87.5 P/NP available
Recommended Prep: MABS 30
Keyboarding skill development on computer keyboard with associated software, emphasizing proper technique to develop speed and accuracy. Drills target individual student deficiencies. Develop proper touch control of entire computer keyboard (including alphabetic, number, and symbol keys; numeric keypad) with proper control of the Space Bar, Enter, Tab, and Shift keys. CSU
Offered on occasion

MABS 50. Microsoft Outlook and OneNote (3)
Lec-52.5 P/NP available
An introduction to the features of Microsoft Outlook and OneNote. Students learn to manage messages, appointments, tasks and contact lists, and customize Outlook for the workplace. Emphasis is placed on the advanced features of Outlook for communication, sharing information, and productivity within a business. Students also learn to organize projects and share notes and ideas using Microsoft OneNote. This course prepares students for the Microsoft Office Specialist exam for Microsoft Outlook. CSU

MABS 55. Microsoft Office and QuickBooks Prep (2)
Lec-35, field trips P/NP available
Recommended Prep: MABS 50 or MABS 67 or MABS 70 or MABS 75 or MABS 101 or MABS 202 or MABS 391
This course trains students to use Gmetrix and Certiport software to prepare for Microsoft Office Specialist (MOS) and/or QuickBooks industry standard certification. Students will engage in real-world simulated projects using applications in their selected core areas:

QuickBooks, MS Word, MS Excel, MS PowerPoint, MS Access, and/or MS Outlook. CSU

MABS 60. Introduction to Computer Applications for Business (3)
Lec-52.5 P/NP available
Recommended Prep: MABS 30
Introduction to the concepts and skills required for using computer applications for business. Includes fundamental concepts of hardware, the operating system, and the most frequently used office applications: word processing, electronic spreadsheet, database management, presentations, web browsers, and email. UC/CSU

MABS 67. Database for Business/Microsoft Access (3)
Lec-52.5 P/NP available
Recommended Prep: MABS 30
Introduction to dynamic relational database management using Microsoft Access. This course provides in-depth coverage of the concepts and techniques required to create, manage, format, modify, and configure Access database objects. Topics covered include creating tables with fields, defining table relationships, constructing queries, designing custom forms, and custom reports. Course completion will assist in the preparation for the Microsoft Office Specialist MS Access certification exams. CSU

MABS 70. QuickBooks for Small Business (3)
Lec-52.5 P/NP available
Recommended Prep: MABS 60 and BSMA 68
An introduction to QuickBooks desktop accounting software designed for small businesses. Topics include setting up a new company; recording sales and purchases; processing payroll and inventory; generating financial statements, and to assist in the preparation for the QuickBooks Certified User Desktop certification exam. Customizing and integrating QuickBooks desktop with Microsoft Excel and Word are also introduced. CSU

MABS 75. QuickBooks Online for Small Business (3)
Lec-52.5 P/NP available
Recommended Prep: MABS 60 and BSMA 68
An introduction to QuickBooks Online (QBO) a cloud-based accounting subscription service designed for small businesses. Topics include setting up a new company; recording sales and purchases; processing payroll and inventory; generating financial statements; evaluating QBO mobile and third party apps; and to assist in the preparation for the QuickBooks Certified User Online certification exam. Customizing and integrating QBO with Microsoft Excel and Word are also introduced. CSU

MABS 101. Microsoft Excel (3)
Lec-52.5 P/NP available
Recommended Prep: MABS 30
This course provides in-depth coverage of the concepts and techniques required to use Microsoft Excel to create spreadsheets to express, analyze, and solve business-related problems, and to assist in the preparation for the Microsoft Office Specialist Excel certification exam. CSU

MABS 150. Project Management with Microsoft Project (3)
Lec-52.5 P/NP available
Recommended Prep: MABS 60
Plan, implement, and manage projects using Microsoft Project. Create and share a project schedule, create tasks and resources, track costs and resources, produce reports, and keep projects on track. CSU

MABS 202. PowerPoint Presentations (3)
Lec-52.5 P/NP available
This course provides in-depth coverage of the concepts and techniques required to use Microsoft PowerPoint to create compelling slide show presentations. Topics include planning an effective presentation, adding and editing video and audio clips, creating tables and charts, animating graphics, and applying artistic effects. This course prepares students for the Microsoft Office Specialist PowerPoint certification exam. CSU

MABS 391. Word Processing/Microsoft Word (3)
Lec-52.5 P/NP available
Experience creating and editing documents using Microsoft Word including paragraph and page formatting, proofing tools, tables, styles, columns, mail merge, and headers/footers. Advanced features include building blocks, references, and sharing/protecting documents. CSU
Formerly WDPR 391

MABS 404. Storefront Apps for E-Business (3)
Lec-52.5 P/NP available
Recommended Prep: BSEN 74
Perform business functions faster, cheaper, and better using storefront apps to handle the flow of merchandise, services, information, and revenue. Focus is on the apps and tools needed to manage an e-business and/or e-store. Topics include entrepreneurial business strategy, offering products and services, managing customers and orders, product and market research, advertising and promotions, customer service, search engine optimization, online storefront options, and mobile e-business apps. CSU

MABS 406. Developing Web Sites-Dreamweaver (3)
Lec-52.5 P/NP available
Recommended Prep: MABS 60
Experience in developing and maintaining a business website with HTML and CSS. Topics include tables, page divisions, links, image, forms, and built-in JavaScript behaviors. CSU

MABS 408. Website Builder for Business Portfolio / Productivity (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MABS 60 and BSEN 70
This course will provide students with an overview of webpage development using drag and drop website builders. Assignments will focus on online website builders, cloud-based productivity tools, and software applications available to users as and when needed for specific temporary projects, known or unexpected business workloads, and portfolio development. CSU
Offered on occasion

MABS 409. Developing Business Websites - Adobe Muse (3)
Lec-52.5 P/NP available
Recommended Prep: MABS 60 and BSEN 70
Fundamentals of custom business website development without coding using Adobe Muse web development software. Topics include tools that create and format web pages, add text, images, media, and widgets, add basic e-business functions, optimize layouts for mobile devices, and create a responsive business website. CSU

MABS 410. Photoshop and Acrobat for Business (3)
Lec-52.5 P/NP available
Recommended Prep: MABS 60; BSEN 70
Create, edit, organize, and optimize web images and documents using industry standard programs Adobe Photoshop and Adobe Acrobat.

Topics include digital image editing, automation batch tools, document manipulation and conversion, optical character recognition (OCR), encryption, and interactive forms, and portable document format. Produce business office materials for outreach, social networks, electronic publications, print and web, and documents for use in content management systems (CMS). CSU

MABS 412. Mobile Apps for Business (3)
Lec-52.5 P/NP available
Recommended Prep: BSEN 74
Overview of industry standard mobile apps and tools used to perform, transform, and manage business processes, services, operations, and functions. Topics include building an effective mobile business strategy, improving productivity, enhancing customer experience, promoting a business through mobile operations, and utilizing mobile apps for communications, productivity, planning, organizing, billing, payments, sales, marketing, and mobile e-business applications. CSU

MABS 413. E-Commerce Apps for Entrepreneurial Business (3)
Lec-52.5 P/NP available
Recommended Prep: MABS 60; BSEN 70
This course will survey contemporary e-commerce apps, marketplaces, and platforms that facilitate entrepreneurial business success. Topics include planning, marketing, and managing business products and services with specific e-commerce apps. Students will be able to identify the most appropriate e-business options and e-commerce apps for a given business function. CSU

Noncredit Courses:

BOSS 5500. Keyboarding for Computers (45 hrs)
Recommended Prep: ESLN 3400
Students will acquire basic knowledge of the keyboard to interact more efficiently with desktop computers. Instruction covers introduction to the keyboard and development of basic keyboarding skills.

COMP 9000. Supervised Training of Computer Applications for Business (90 hrs)
Coreq: Concurrent enrollment in a Business course
Academic support for currently enrolled Business Department students in an instructor-supervised computer lab. Students work on assignments given in other Business Department credit and noncredit classes. Instructors assist students with computer skills and assignment content to achieve academic course learning outcomes.

COMP 9245. Computer Literacy - Basic Level (30 hrs)
Recommended Prep: ESLN 3560 or TRST 1322
Essential computer concepts and techniques for the beginning computer user, including how to use a Windows or Mac-based operating system. Introduction to the internet and email basics with an overview of business office productivity tools.

COMP 9899. Electronic Publishing for Business I (45 hrs)
Recommended Prep: ESLN 3700 and COMP 9245 or COMP 9905 or COMP 9967
Electronic publishing for the business office using such programs as Microsoft Publisher or Adobe InDesign. Students will create and manage business documents for print or electronic distribution including business newsletters, postcards, interactive forms, flyers, and web publications. Students develop page layouts, edit text, optimize bitmaps, correct simple spelling, punctuation, and grammar errors in the development of business documents.

COMP 9900. Microsoft Excel for Business I (45 hrs)
Recommended Prep: ESLN 3600
A beginning course to analyze and solve business-related problems using Microsoft Excel. Topics include set up and customize a spreadsheet; create and manage charts; create simple formulas, and use functions. This course helps students prepare for the Microsoft Office Specialist Excel certification exam.

COMP 9901. Microsoft Access for Business I (45 hrs)
Recommended Prep: ESLN 3600
Learn database design guidelines to create the structure of the business Access database, which allows users to create tables, queries, forms, and reports for business data. Build table relationships, establish query criteria, and create and customize forms and reports.

COMP 9903. Software Essentials (15 hrs)
Recommended Prep: ESLN 3700 or TRST 2322; COMP 9245 or COMP 9905
An overview course that introduces students to current business software, including, but not limited to Windows/Mac operating systems, MS Office (word processing, spreadsheets, databases, presentations), internet and email, cloud based business productivity tools, computerized accounting, business graphics or desktop publishing software, Web authoring and animation software, and business multimedia software.

COMP 9904. Microsoft Excel for Business II (45 hrs)
Recommended Prep: ESLN 3600; COMP 9900
This is an intermediate course to analyze and solve business-related problems using Microsoft Excel.Topics include creating and managing tables, using conditional and text functions, organizing large worksheets, inserting macros, and using pivot tables.This course helps students prepare for the Microsoft Office Specialist Excel Core and Excel Expert certification exam.

COMP 9905. Computer Basics for Business (45 hrs)
Recommended Prep: ESLN 3700
An introduction for beginning computer students to computer concepts and techniques used in business. Topics include navigating an operating system and organizing and managing files as well as Internet, email, and a brief introduction of the MS Office applications: Word, Excel, PowerPoint and Access.

COMP 9907. Electronic Publishing for Business II (45 hrs)
Recommended Prep: ESLN 3700; COMP 9933; COMP 9245 or COMP 9905
This course further develops electronic publishing by enhancing business office publications and making them interactive using such programs as Microsoft Publisher, Adobe InDesign, and Adobe Acrobat Professional. Students deconstruct business documents and templates, create a business office newsletter, business posters, interactive business registration forms, upload files and folders in a cloud-based drive, and import/export documents in various file formats.

COMP 9909. Microsoft Excel for Business III (45 hrs)
Recommended Prep: ESLN 3700; COMP 9904
Students learn advanced spreadsheets formulas and formatting techniques and will concentrate on various Excel applications including formula auditing, PivotTables, PivotCharts, and troubleshooting formulas.

COMP 9910. Microsoft Access for Business II (45 hrs)
Recommended Prep: COMP 9901
Create business reports, import and export business data. Data searches with multiple criteria using action queries and outer join. Create easy access database by applying business macros. Improve database performance by setting passwords and changing startup options.

COMP 9912. PC Upgrade and Optimization (15 hrs)
Recommended Prep: COMP 9245; ESLN 3600
An overview course that introduces students to the basic concepts of computer components, installing and uninstalling Microsoft Office application software, installing device drivers, installation and use of antivirus and spyware, and install memory cards.
Offered Spring semesters

COMP 9917. Building Individual Websites (45 hrs)
Recommended Prep: ESLN 3700; COMP 9905
Fundamentals of website content management and blogging tools for creation of an individual or business website. Students will create an individual or business website or blog. Students will develop, organize, format, manage, and publish content to the web using WordPress.
Offered Spring semesters

COMP 9918. Building Business Web Sites (45 hrs)
Recommended Prep: ESLN 3700; COMP 9905
An introductory hands-on project based website development course for the business office. Students will plan, format, develop, and test a basic business website using Adobe website development tools and online website builders without coding. Students will add text, images, media, widgets, navigation elements, and links to a website. Topics include adding basic e-business and e-commerce functions to a website.
Offered Spring semesters

COMP 9919. Using Dreamweaver for Basic Business Web Pages (45 hrs)
Recommended Prep: ESLN 3600 and COMP 9905 or COMP 9245
Developing and maintaining a personal or business website using HTML and CSS built-in functions of Adobe Dreamweaver. Topics include new website definition, creating and editing the site, adding pages, links, images, text, and media. Beginning through intermediate skills are taught.

COMP 9921. Introduction to Internet and Email for Business (45 hrs)
Recommended Prep: ESLN 3700 or TRST 2322
Introductory course on internet and email. Topics include business email, browser features, navigating the web, cloud computing services, and web research skills.

COMP 9922. Adobe Apps for Bus/Web Presentations (45 hrs)
Recommended Prep: COMP 9905; ESLN 3700
Introduces business students to the basic concepts of creating interactive business website presentations using Adobe Creative Cloud software. Students learn introductory techniques for creating interactive content for advertising and marketing promotions. Students view their work in the browser or in web pages.
Offered Spring semesters

COMP 9928. PowerPoint for Business (45 hrs)
Recommended Prep: ESLN 3700 or TRST 2322; COMP 9245
The course is designed for the office business professional or other computer user. Topics include creating a PowerPoint slide show, adding visuals to enhances a slide show, customizing a presentation, and delivering a presentation.

COMP 9932. Excel for Accounting Principles (45 hrs)
Recommended Prep: ESLN 3600
Instruction in the utilization of Microsoft Excel as it relates to accounting principles. Practice in formatting, formulas, and functions, PivotTables and PivotCharts, worksheet manipulation, table, and macro commands.
Offered Spring semesters

COMP 9933. Building Business Web Pages with Adobe Web Standard-Level I (45 hrs)
Recommended Prep: ESLN 3600 and (COMP 9905 or COMP 9245)
Project-oriented approach to developing a business website using various Adobe web development software applications. Topics include types and functions of software applications; creating and formatting web pages with text, graphics, and media; adding forms and interactivity, and integration of output from several software applications into a single website project.

COMP 9934. Building Business Web Pages with Adobe Web Standard-Level II (45 hrs)
Prereq: COMP 9933 or COMP 9919 or COMP 9918
Recommended Prep: ESLN 3600 and COMP 9905
Project-oriented approach using Adobe web development software for the development of e-business and mobile websites. Topics include: further development of business websites by adding business functions to a website such as website analytics, search engine optimization, and e-business and shopping cart widgets; optimizing web pages for mobile devices; creating a mobile website; and creating a responsive website.

COMP 9935. Business Web Graphics (45 hrs)
Recommended Prep: ESLN 3600 and COMP 9245; and knowledge of Windows OS basics or COMP 9905
Create business web graphics and business web media using Adobe web graphics and web authoring tools. Create, edit, manage, and optimize vector and bitmap images for web pages. Topics include creation of a custom webpage layout, creation of web page banners, web page backgrounds, and adding digital media to a web page. Creation of a web page layer comp with navigational elements.

COMP 9941. Computer Applications - Self-Paced (45 hrs)
Recommended Prep: ESLN 3600 or TRST 2322; WOPR 9996 or COMP 9904 or COMP 9910 or COMP 9928; COMP 9936; ACBO 9209
A self-paced computer software course that supports the attainment of an industry standard certificate as a Microsoft Office Specialist (MOS) or Intuit QuickBooks Certified User (QBCU). Students will complete real-world simulated projects using Gmetrix and Certiport software in one selected core area: MS Word, MS Excel, MS PowerPoint, MS Access, MS Outlook, or Intuit QuickBooks.
Students train, test, and attain an industry recognized certification in one of the following products using Gmetrix software: Word, Excel, PowerPoint, Access, Outlook, or QuickBooks. Gmetrix and Certiport or certification tools used for training and testing purposes. 800 score recommended for advancement to proctored Certiport exam.
Offered on occasion

COMP 9947. Windows Folder & File Concepts (15 hrs)
Recommended Prep: ESLN 3560
Fundamentals of efficient management of electronic files/folders in a business office using a Windows or Mac based operating system.

Students create file and folder naming conventions, learn to view and navigate through levels of folders, setup a cloud storage system, and organize folders in removable storage devices.

COMP 9952. Internet & E-mail for the Business Office (15 hrs)
Recommended Prep: COMP 9942 or COMP 9905 or COMP 9947; ESLN 3600
Introductory course to provide familiarity of the Internet and email. Topics covered includes an introduction to the Internet and email, browser features, navigating the web, cloud computing services, and evaluating websites for clarity, content, and credibility.

COMP 9959. Photoshop Essentials (45 hrs)
Recommended Prep: TRST 2322 or ESLN 3700 or placement in ESLN 3800; COMP 9245 or COMP 9905
Fundamental digital image software course. Students learn to organize and digitally edit business office images for web page development, and electronic publishing. Students repair exposure problems, create selections, auto correct, reframe, retouch, recompose, and share and export image files in various file formats.
This course is not intended for students interested in graphic design and web design. Please see programs/courses in Visual Media Design Department".

COMP 9967. Google Apps for Business I (45 hrs)
Recommended Prep: ESLN 3700; COMP 9905 or COMP 9245; COMP 9921
Google Apps for Business I is a hands-on course that introduces students to cloud-based file storage, email, security, file management, Google Drive, Docs, Sheets, Slides, Calendar, Blogger, and group collaboration. Students learn to share docs, collaborate in groups, develop error free blog posts, memo, cover letter, and a personal budget, and migrate and convert Microsoft Office documents into to Google Docs, Sheets, and Presentations, and archive them in the Google Drive.

COMP 9968. Google Apps for Business II (45 hrs)
Recommended Prep: ESLN 3700 and COMP 9245 or COMP 9905
Google Apps for Business II is a hands-on course that introduces to data collection strategies using Google Forms and builds on existing understanding of cloud productivity tools. Students create and embed surveys into blogs, support content management, gather employee and client feedback, manage spreadsheets, back up assignments in the cloud, create archives, learn to connect and collaborate, encrypt, and share documents in the most common file formats.

COMP 9975. MS Office Applications I (45 hrs)
Recommended Prep: ESLN 3600 and COMP 9905 and COMP 9947 and COMP 9952 or equivalent skills
An introduction to Microsoft Office applications in Word, Excel, Access, and PowerPoint. Topics include Microsoft Office basics, formatting business letters, creating and editing worksheets and databases, PowerPoint presentations, and additional hands-on simulated projects.

COMP 9976. MS Office Applications II (45 hrs)
Recommended Prep: ESLN 3600 and COMP 9975 or or equivalent skills
An intermediate level course of Microsoft Office applications in Word, Excel, Access, and PowerPoint. Topics include creating a flyer and table in Word, analyzing data in Excel, creating forms and reports in Access, and building a PowerPoint presentation with animation, tables, and charts. The integration of Microsoft Office applications is introduced.

Entrepreneurship

ENTR 101. Introduction to Entrepreneurship (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course provides a practical and experience-centric approach to entrepreneurship. This practice-based method focuses on nurturing an entrepreneurial mindset and skill set, and equips students with tools to bring one's idea from concept to launch. The course promotes active learning and engagement with the realities of entrepreneurship, encouraging entrepreneurial thinking beyond just learning the concepts of planning, funding, pitching and marketing their creative ideas. CSU

ENTR 102. Applied Design Thinking for Entrepreneurship (1.5)
Lec-26.25, field trips P/NP available
Prereq: DSGN 105; Completion of or concurrent enrollment in: ENTR 101
Preparation for collaborative forms of interaction and idea generation that allow for innovative solutions using design thinking, a major driver for strategic differentiation and competitive advantage among firms. Explore technology and radical innovation as forces behind the transformation of leading industries and their entrepreneurial value. CSU

ENTR 103. Social Entrepreneurship (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Study the foundational concepts for understanding social entrepreneurship, combining the passion of a social mission with business-like discipline, innovation, and determination to address pressing social problems. This course offers a basic framework for social entrepreneurs to develop new business models and ventures that support inclusivity, accessibility, and sustainability. CSU

Finance

Credit, Degree Applicable Courses:

FIN 110. Principles of Risk Management (3)
Lec-52.5 P/NP available
Recommended Prep: (MATH 30 or MATH 43 or MATH 45)
The fields of risk, risk management, and insurance, including the legal elements of risk and contracts. Designed for any business student who is interested in learning about risk management, legal contracts, and financial risk, as well as those interested in the insurance industry. CSU
Offered Fall semesters

FIN 133. Money and Banking (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The nature and significance of money and banking in both a historical and contemporary sense with an emphasis on the commercial banking processes, the Federal Reserve, financial institutions other than commercial banks, and international banking. CSU
Offered Spring semesters

FIN 136. Personal Financial Planning (3)
Lec-52.5 P/NP available
Recommended Prep: BSMA 68
Personal financial planning is critical. This class will help you develop financial plans in your personal life to buy a house and invest, and understand the importance of starting to save for retirement right away. It will introduce you to important Finance topics such as insurance, taxes. The class is also a useful introduction to Finance for those pursuing academic goals in business. CSU
Not intended for students who have taken FIN 136M.

FIN 136M. Personal Financial Planning - Math Emphasis (3)
Lec-52.5 P/NP available
Prereq: Elementary algebra or higher
Personal financial planning is critical. Learn to develop financial plans for your personal life such as buying a house, investing, evaluating insurance, paying taxes, and starting to save for retirement right away. Includes rigorous application of linear, algebraic, exponential, and logarithmic functions with applications to personal finance and is useful preparation for university-level classes in Finance. CSU
For a less mathematically rigorous approach to Personal Finance see FIN 136 (which does not fulfill CSU Area B4).

FIN 138. Principles of Investment (3)
Lec-52.5 P/NP available
Recommended Prep: BSMA 68 and (ESL 186 or placement in ESL 188 or readiness for college-level English)
The principles and practices in the investment field and successful investment policies for the individual investor are studied, serving as a good practical application as well as good preparation for higher-level classes. This will include establishing an investment program, sources of investment information, tools utilized in security and market analysis, and an analysis of securities markets and institutions. CSU

General Business

Credit, Degree Applicable Course:

GNBS 100. Essential Skills for Business Professionals (1)
Lec-17.5
Students will learn effective communication, problem solving and decision making, positive attitude and taking initiative, teamwork and collaboration. All of these are essential skills for business. CSU

GNBS 119. Introduction to Business (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
An overview of the functional areas of business, including marketing, human resources, finance, accounting, operations, and management within a socially responsible global business environment. In addition, an overview of small business and entrepreneurship, ethics, economics, international business, and e-commerce. UC/CSU
C-ID BUS 110

GNBS 120. Business Ethics and Social Responsibility (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188 or BSEN 74
This course emphasizes the centrality of ethical values such as honesty, trust, respect, and fairness in the context of individual and organizational effectiveness. Become a more effective decision maker by examining the role and the social responsibility of ethics in the business environment. UC/CSU
Offered on occasion

International Business

Credit, Degree Applicable Courses:

INTR 162. Introduction to International Business (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course provides an overview of international business focusing on global perspective of international trade and investment, financial markets, business issues and strategies in the global economy, international marketing and business operations of multinational corporations. CSU
Formerly Survey of International Business

INTR 163. International Marketing (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Marketing execution in an international environment. Impact of cultural, economic, legal, and political environments on creating, pricing, promoting, and distributing products/services. Role of global trade organizations on international marketing strategy. CSU

INTR 167. International Business Law (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the legal aspects of International Business, including U.S. trade laws, contracts, transactions, technology transfers, intellectual property protection, shipping documents, insurance, finance, economic communities, and dispute resolution. CSU
Formerly titled International Law
Offered Fall semesters

INTR 170. International Business Finance (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the financial decisions impacting International Business, including assessing the current economic environment, computing foreign exchange rates, analyzing foreign exchange risks, learning how to calculate time value of money of global assets, and considering current and prior issues impacting international finance. CSU
Offered Spring semesters

Management

Credit, Degree Applicable Courses:

MGT 231. Introduction to Supervision and Management (3)
Lec-52.5
Concepts of supervision and management including planning, organizing, recruiting, training, decision-making, communication, employee relations, motivation, discipline, rewards/incentives, and grievances. CSU
Formerly SUPV 231

MGT 232. Organizational Behavior for Supervisors (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Concepts and principles of human relations in organizations, including application of motivational theory, group dynamics, managing change, leadership styles, training, and organizational development. CSU
Formerly SUPV 232

MGT 233. Human Resources Management (3)
Lec-52.5
Recommended Prep: BSEN 74 or ESL 188 or readiness for college-level English
This course focuses on human resources management principles and techniques, including recruiting, job performance, employee development, career management, discipline, labor relations, and employment law; also sexual harassment, health issues in the workplace, discrimination, Americans with Disabilities Act, downsizing, managing a diverse workforce, and governmental regulations.
CSU
Formerly SUPV 233

MGT 234. Communication for Business Management (3)
Lec-52.5
Recommended Prep: BSEN 74
Students will learn concepts, strategies, and models to help improve communication skills. This course encompasses topics such as cultural diversity, critical thinking, ethical communication, listening skills, communicating in managerial and leadership roles, managing conflicts, communicating in teams and groups, technology in communication, and public presentations. Students will understand the importance of effective communication in the workplace.
CSU
Formerly SUPV 234

MGT 235. Organizational Leadership (3)
Lec-52.5
Recommended Prep: BSEN 74 or ESL 188 or readiness for college-level English
This course explores collaborative and inclusive leadership and management styles along with the vision and values needed to effectively lead successful organizations. Examines strategies for developing and encouraging skills that enable leaders and managers to succeed in business, government, nonprofits, education, and community-based organizations. UC/CSU
Formerly SUPV 235

MGT 238. Introduction to Employment Law (3)
Lec-52.5, field trips
Recommended Prep: BSEN 74 or ESL 188 or readiness for college-level English
This course covers the basic framework of employment law domestically and globally focusing on the layers of employee and employer rights. This course addresses key employment law requirements in the United States and also provide guidance on the implementation of employment policies and practices in countries with different legal systems. Students will understand how to deal effectively with labor-related legal issues in the workplace. CSU

MGT 239. Project Management Fundamentals (3)
Lec-52.5
Recommended Prep: Readiness for college level English or ESL 188
Project management (PM) is vital to the success of every organization. Introduction to the principles and methodology with special focus on planning, controlling, and managing projects to successful completion. Topics are divided into two main categories: technical and behavioral. Technical issues include the process and scope of a project, strategy, and managing risks. Behavioral issues include management, leadership, teams, communications, ethics, and professionalism. CSU

Marketing

Credit, Degree Applicable Courses:

MRKT 122. Professional Selling (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
The fundamentals of selling in a professional environment. Students learn to identify target markets, prospect for clients, write a sales plan, develop a sales strategy, identify and resolve conflicts of interest, make an oral presentation, respond effectively to objections, ask for a commitment, and manage a sales force. CSU

MRKT 140. Introduction to Marketing (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Introduction to the concepts, analyses, and activities that comprise marketing management, and to provide practice in assessing and solving marketing problems. A foundation for advanced electives in Marketing as well as other business/social disciplines. Topics include marketing strategy, customer behavior, segmentation, market research, product management, pricing, promotion, sales force management, and competitive analysis. CSU
Required for all Marketing majors.

MRKT 145. Computer Marketing Applications (3)
Lec-52.5 P/NP available
Introduction to desktop publishing and presentation software using Microsoft Office professional applications and web-based tools. Design and create professional marketing materials such as newsletters, brochures, flyers, logos, business forms, and animated slideshow presentations. CSU

MRKT 150. Consumer Behavior (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Introduction to the core concepts and applications of contemporary consumer behavior. Topics include needs and motives, personality, perception, learning, attitudes, and cultural influences that lead to understanding consumer decision-making and behavior. Explores the impact of consumer behavior on marketing strategies and promotional tactics. CSU

MRKT 170. Advertising and Integrated Marketing Communication (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Exploration of the role of advertising and integrated marketing communications in the marketplace. Working knowledge of areas associated with the advertising industry: target marketing; ad agency organizations and operations; media strategies; use of television, radio, outdoor advertising; online and social media, print media; sales promotions; and alternative advertising. CSU
Required for all Marketing and Fashion Merchandising majors.

MRKT 180. Social Media Marketing (3)
Lec-52.5 P/NP available
This course is designed to build students' social media marketing skills by working on projects that give students hands on experience implementing

social media marketing campaigns and strategies. Topics include integrating targeted social media platforms into a marketing plan, creating social media marketing campaigns, and measuring the success of campaign efforts. Upon completion, students will be able leverage and integrate social media to promote products, services and brands. CSU

Paralegal/Legal Studies

Credit, Degree Applicable Courses:

PLS 1. Introduction to Paralegal Studies (3)
Lec-52.5
Prereq: ENGL 1A
Study of the code of ethics in the legal profession; the steps to file a lawsuit; the California and federal court systems; the areas of torts, contracts, property law, and criminal law and procedure; the role of a paralegal; and the operations of a law office. CSU
Offered Fall and Spring semesters

PLS 2. Legal Research and Writing I (3)
Lec-52.5
Prereq: ENGL 1A
This course covers techniques to research and write using online and print legal resources, Shepard's Citations, and accepted legal citation guidelines. Students will practice written, verbal, electronic communication, and legal research techniques and styles used in today's law offices. CSU
Offered Fall and Spring semesters

PLS 3. Legal Research and Writing II (3)
Lec-52.5
Prereq: PLS 1 and PLS 2
This course teaches students how to research effectively using both online and print sources, how to cite check and Shepardize, and how to argue persuasively via a legal research memorandum and a memorandum of points and authorities. CSU
Offered Fall semesters

PLS 4. Litigation I (3)
Lec-52.5
Prereq: PLS 1 and PLS 2
Instruction in how to gather information and draft pleadings. These skills are important to begin a lawsuit in court or to respond to a lawsuit. CSU
Offered Spring semesters

PLS 5. Litigation II (3)
Lec-52.5
Prereq: PLS 3 and PLS 4
Focus on the discovery, trial, and post-trial phases of a lawsuit and the role of a paralegal in each phase. CSU
Offered Fall semesters

PLS 6. Law Office Management and Procedures (3)
Lec-52.5
Prereq: PLS 3 and PLS 4
Recommended Prep: MABS 60
This course covers law office management systems, personnel management, accounting, and operations. CSU
Offered Spring semesters

PLS 7. Corporate Law (3)
Lec-52.5
Prereq: PLS 3
This course covers legal aspects of various business entities, including corporations, sole proprietorships, partnerships, and joint ventures and emphasizes the duties of a paralegal in forming, maintaining, and terminating the above entities. CSU
Offered on occasion

PLS 9. Wills, Trusts, and Probate Administration (3)
Lec-52.5
Recommended Prep: PLS 3
Focus on the law of wills and trusts, the organization and jurisdiction of a California probate court, and the administration of estates in California probate courts including gift inheritance and estate taxes. CSU
Offered on occasion

PLS 12. Family Law (3)
Lec-52.5
Prereq: PLS 3 and PLS 4
This course covers the tasks associated with family formation and dissolution as well as the laws affecting diverse family structures in today's society. CSU
Offered on occasion

PLS 13. Intellectual Property (3)
Lec-52.5
Prereq: PLS 3 and PLS 4
This course focuses on the principles of intellectual property law in trademarks, copyrights, and patents including international conventions and the difference between ideas and expression of ideas, fair-use doctrine, trade secrets, and the notion of public domain. CSU
Offered on occasion

PLS 14. Immigration Law (3)
Lec-52.5
Recommended Prep: PLS 3
A practice-oriented overview of immigration law and covers family and employment visas, political asylum, naturalization, non-immigrant visas, and removal. CSU
Offered on occasion

PLS 16. Paralegal Work Experience (1-3)
Work-60-225
Prereq: PLS 1 and PLS 2 and PLS 3 and PLS 4
Repeat: Students can repeat once (total 2 enrollments)
Students will work with practicing attorneys and paralegals, apply the skills learned in the paralegal classes, and gain experience working in a legal environment. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
Replaces PLS 16, PLS 18, and PLS 19
Offered Fall and Spring semesters

Real Estate

Credit, Degree Applicable Courses:

R E 181. Principles of Real Estate (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Fundamental real estate course covering the basic laws and principles of California real estate; provides background and terminology necessary for advanced study in specialized courses. Designed to assist those preparing for the California state real estate salesperson licensing examination. CSU

R E 182. Escrow Fundamentals (3)
Lec-52.5
Basic methods and techniques of real estate escrow procedures including legal responsibilities of individuals engaged in escrow work. Types of instruments used on the job and their preparation, closing statements, disbursements of funds, proration calculations, public and ethical responsibilities. CSU

R E 183. Real Estate Property Management (3)
Lec-52.5
Recommended Prep: ESL 184 or placement in ESL 186 or readiness for college-level English
An introductory course dealing with property management and its relationship to agency and contracts in real estate. Topics include owner and tenant relations, marketing, leases and negotiation, financial aspects, maintenance and construction, types of managed property, property management economics, rent control, eviction, federal and state housing laws, insurance and risk management, environmental concerns, and safety issues. CSU

R E 184. Real Estate Practice (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Day-to-day functions and operations of the real estate broker and salesperson, including listing, prospecting, advertising, marketing, financing, sales techniques, escrow, ethics, and compliance with state and federal regulations. CSU

R E 185. Legal Aspects of Real Estate (3)
Lec-52.5
Recommended Prep: R E 181 and (readiness for college-level English or ESL 188)
A study of California real estate law covering agency, contracts, disclosures, landlord/tenant disputes, property taxes, common interest subdivisions, escrow and title insurance, as well as recent legislation governing real estate transactions. CSU

R E 186. Principles of Real Estate Finance (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Analysis of real estate financing, including lending policies in financing residential, commercial and special purpose properties. Emphasis on various methods of financing and lending criteria. Introduces and covers the latest changes in industry since the 2008 financial crisis. Includes the Truth-In-Lending Act, Real Estate Procedures Act, the TRID Disclosure Rule and the Dodd-Frank Act concerning oversight of financial institutions in effect since 2015. CSU

R E 187. Real Estate Taxation (3)
Lec-52.5
Recommended Prep: R E 181 and (intermediate algebra or higher) and (readiness for college-level English or ESL 188)
This course encompasses Federal and California State income tax and other tax laws influencing the purchase, sale, exchange, and use of real property. Topics include depreciation, capital gains, installment sales, pre-paid interest, and tax saving opportunities. Tax planning, federal gift and estate taxes, and transfer taxes are explored.
CSU

R E 189. Real Estate Economics (3)
Lec-52.5
Recommended Prep: R E 181 and (ESL 186 or placement in ESL 188 or readiness for college-level English
Use of economic analysis as the basis for prudent real estate purchases and investments. Students will explore the impact of financing and government policies with respect to investment markets. Review the economic advantages and disadvantages of various types of real estate purchases and investment. CSU

R E 191. Principles of Real Estate Appraisal (3)
Lec-52.5
Basic course in real estate valuation with emphasis on residential property. Topics include valuation principles; the formal appraisal process; analysis of city, neighborhood and site data, architectural style analysis of improvement and residential construction classifications; depreciation; market data valuation; the sales comparison, cost and income approaches to value; reconciliation of approaches to final value conclusion; appraisal report formats and role of the professional appraiser. CSU

R E 192. Advanced Real Estate Appraisal (3)
Lec-52.5
Prereq: R E 191
Advanced study in appraisal and valuation techniques with emphasis on income capitalization models to value multifamily residential, commercial, and industrial properties. The course reviews the formal appraisal process and basic real estate mathematics, financial functions of a dollar, and time value of money. Application of concepts in capitalization and reconstruction analysis, property operating statements, and the derivation and application of capitalization on yield rates. CSU
Offered on occasion

Small Business

Noncredit Courses:

SMBU 9419. Developing a Business Plan (18 hrs)
Recommended Prep: ESLN 3700
For prospective and new business owners. Outlines the process of developing and pitching a business plan. Introduction to pitch decks and pitching strategies.

SMBU 9467. Getting Started in Business (18 hrs)
Recommended Prep: ESLN 3700
An overview of the considerations involved in starting a new business. Topics include entrepreneur and small business characteristics, evaluation of business idea, business licenses and permits, legal structures for business, and basic financial considerations.

SMBU 9476. Green and Sustainable Small Business (18 hrs)
Recommended Prep: ESLN 3700
An exploration of the major types of green certifications and the process of achieving them, as well as the obstacles and opportunities small businesses face in implementing and maintaining sustainable practices that are economically, ecologically, and socially sound.

SMBU 9793. Small Business Marketing and Sales (18 hrs)
Recommended Prep: ESLN 3700
A practical, targeted study of how to develop and implement a successful marketing strategy for small business.

SMBU 9799. Technology for Small Business (18 hrs)
An introduction to free cloud-based software tools for entrepreneurs engaging in business research and planning, website management,

blogging, database creation, search engine optimization (SEO) and point of sale solutions.

SMBU 9801. Communication and Management (18 hrs)
Recommended Prep: ESLN 3700
Development of effective interpersonal communication skills in business settings, thinking strategically about communication as a future business owner. Introduction to communication guidelines and related issues and the opportunity to put those guidelines into practice.

SMBU 9888. Small Business Funding (18 hrs)
Recommended Prep: SMBU 9419; ESLN 3700
Exploration of ways entrepreneurs can raise startup capital for their small business funding, with pros and cons of each. Evaluation of a business idea for viability and fundability.

Word Processing*

*See curricula and course listings under Computer Applications for Business in this section of the catalog.

Work Experience*

*See Work Experience section of the catalog

Career Development

Office: MU 101
Phone Number: (415) 452-5651
Web Site: *www.ccsf.edu/cdc*
Formerly CDCD

Announcement of Courses

Credit, Degree Applicable Courses:

CRER 60. Deciding on a Career (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An in-depth study of the process of deciding on a career. Topics include career curiosity, self-assessments, the world of work, job markets, career development over the life span, and influence of career choice from family and relationships. Emphasis on researching career options and self-evaluating one's interests, values, and personality. Helpful to those considering a career change or undecided about a college major. UC/CSU
Formerly "Creating Career Options"

CRER 61. Orientation to Career Success (1)
Lec-17.5 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Designed to assist new and continuing students at various stages of the career planning process in exploring career options, confirming career choice, and preparing for career success. Topics include self-assessment, online career resources, major exploration, goal-setting, networking, and career management strategies. CSU
Offered every Fall semester.

CRER 62. Successful Job Search Techniques (1)
Lec-17.5 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Practical step-by-step instructions and techniques to plan and organize an effective job search and promote an overall understanding of the job search process. Topics include best practices for writing cover letters and resumes, popular online job search tools, job description analysis to identify key workplace skills, networking for career success, interview preparation strategies, and successful interviewing techniques. CSU

Chemistry

Office: Science 233
Phone Number: (415) 452-5651
Web Site: *www.ccsf.edu/chemistry*

Chemistry Certificate

Chemistry is the investigation of matter. Grappling with the difficult problems students will face during their lifetimes, such as the treatment of disease, assessment of environmental pollutant risk, the challenge of feeding a growing world population, understanding the processes that affect the Earth's climate, and the continuous improvement of technology, requires an understanding of chemistry and an integrated approach to problem-solving. Students obtaining a Certificate of Achievement in Chemistry will demonstrate a view of the world around them that is shaped by their understanding of chemical and physical principles, and the language of mathematics. Through experiences in a laboratory setting, students will practice the scientific method to explore chemical phenomena, solve problems in a strategic fashion, and formulate and communicate an understanding of matter from a chemist's perspective.

Students obtaining a Certificate of Achievement in Chemistry are prepared to transfer to a Bachelor of Science in Chemistry program at a four-year college, to take upper-division chemistry coursework in organic, inorganic, and nuclear chemistry; thermodynamics; and quantum mechanics. Simultaneously, they are prepared to enter the chemistry workforce, or pursue other opportunities where chemistry plays a role. Future careers for students obtaining a Certificate of Achievement in Chemistry, after further education, include:

- Physician
- Patent attorney
- Chemical Engineer
- Criminologist
- Museum Curator
- Environmental Engineer
- High school or middle school teacher

Learning Outcomes

Upon completion of this program, students will be able to:

- Assess scientific data and use those data to evaluate the quality of conclusions.
- Perform multistep organic syntheses, planning through implementation and structural verification, with the aid of gas chromatography/mass spectrometry, infrared spectroscopy, and nuclear magnetic resonance spectroscopy.
- Identify and quantify organic chemical compounds after obtaining and purifying them from their natural plant sources.
- Use multiple pieces of scientific laboratory instrumentation to analyze environmental samples and use these data to evaluate the risks of environmental exposure.
- Apply current technology and databases to organize, analyze, and assess relevant scientific information.

- Apply mathematical representations and the language of chemistry to communicate an understanding of chemistry in written and oral form.

The minimum time for completion of this certificate is 4 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Chemistry

Course	Units
Required	
CHEM 101A General College Chemistry	6.0
CHEM 101B General College Chemistry	5.0
CHEM 212A Organic Chemistry	6.0
CHEM 212B Organic Chemistry II	6.0
MATH 110A Calculus I	5.0
MATH 110B Calculus II	5.0
MATH 110C Calculus III	5.0
MATH 130 Linear Algebra and Differential Equations	5.0
PHYC 4A Classical Mechanics for Scientists and Engineers	3.0
PHYC 4AL Mechanics Laboratory for Scientists and Engineers	1.0
PHYC 4B Electromagnetism for Scientists and Engineers	3.0
PHYC 4BL Electromagnetism Laboratory for Scientists and Engineers	1.0

Students may substitute MATH 120 + 125 for MATH 130.

Total: 51.0

Announcement of Courses

Credit, Non-Degree Applicable Course:

CHEM C. Problem Solving in Chemistry (1.5)
Lec-26.25 P/NP only
Coreq: CHEM 101A.
Support for students who are concurrently enrolled in Chem 101A, the first semester of General College Chemistry. Topics include problem-solving concepts and skills necessary for success in calculations involving chemical equations, chemical formulas, stoichiometry, gas laws, kinetic molecular theory, thermochemistry, atomic structure, molecular structure, and chemical equilibrium. Concepts are taught in the context of the linked Chem 101A course.
Recommended as a supplement to be taken concurrently with CHEM 101A for students who need additional help.
Elective offered at the department's discretion

Credit, Degree Applicable Courses:

CHEM 32. Introduction to Medical Chemistry (4)
Lec-52.5, Lab-52.5 P/NP available
Recommended Prep: Elementary algebra or higher
Basic concepts of general, organic, and biological chemistry as they apply to the human body. No previous chemistry required. Satisfies the requirements of nursing and related majors that require one semester of chemistry. UC/CSU
No previous chemistry or physics required. Satisfies the requirements of nursing and related majors that require one semester of chemistry. Also satisfies the prerequisite for BIO 112 and BIO 120. Students taking a major that requires two semesters of chemistry should enroll in CHEM 40 first, then CHEM 101A.

CHEM 40. Introduction to Chemical Principles (5)
Lec-70, Lab-52.5
Prereq: ET 108A or BTEC 108A or (intermediate algebra or higher)
Introductory chemistry. Nomenclature, stoichiometry, gases, acids/bases, solutions, chemical reactivity, atomic/molecular structure. UC/CSU
C-ID CHEM 101
Students may enroll in this course to remove a high school deficiency in chemistry. Designed to prepare the beginning student as well as to strengthen the re-entry student for CHEM 101A.

CHEM 85. Seminar in Chemistry (1)
Lec-18 P/NP available
In partnership with San Francisco State University, career professionals in chemistry and related fields will discuss their current research programs and provide information on career opportunities. Presentations on career opportunities for students studying chemistry. CSU
UC upon review
Elective offered at the department's discretion

CHEM 101A. General College Chemistry (6)
Lec-70, Lab-105
Prereq: CHEM 40 or Chemistry Advanced Placement test score of 3 or higher; Intermediate algebra or higher
Stoichiometry, solutions and aqueous reactions, gas behavior, thermochemistry, atomic structure and periodic properties, chemical bonding, molecular structure, condensed phases and intermolecular forces, and an introduction to equilibrium. UC/CSU
C-ID CHEM 110; C-ID CHEM 120S (CHEM 101A + CHEM 101B)
CHEM 101A/B are the standard college courses required in many curricula. CHEM 101A may be substituted for CHEM 103A.

CHEM 101B. General College Chemistry (5)
Lec-52.5, Lab-105
Prereq: CHEM 101A or CHEM 103A
Chemical kinetics, applications of aqueous equilibrium, chemical thermodynamics, oxidation and reduction, electrochemistry, symmetry, crystal structures and solid state chemistry, transition metal ions, descriptive chemistry of selected elements. UC/CSU
C-ID CHEM 120S (CHEM 101A + CHEM 101B)

CHEM 103A. General Chemistry for Engineering (5)
Lec-70, Lab-52.5
Prereq: CHEM 40 or Chemistry Advanced Placement test score of 3 or higher or (placement in CHEM 101A or CHEM 103A); Intermediate algebra or higher
Thermochemistry, atomic structure, periodic properties, bonding, solid-state structures, fundamentals of organic chemistry, solution chemistry, thermodynamics, kinetics, equilibrium, acids and bases, and electrochemistry. UC/CSU Designed for students majoring in all engineering programs except chemical engineering. Students who have passed CHEM 101A may not receive credit for CHEM 103A. UC/CSU
Designed for students majoring in all engineering programs except chemical engineering.
Elective offered at the department's discretion

CHEM 110. Chemistry and the Environment (3)
Lec-52.5 P/NP available
A presentation of chemical fundamentals related to environmental issues and society. Intended for non-science majors. UC/CSU
Offered Summer semesters

CHEM 208A. Chemical Structure and Reactivity I (4)
Lec-52.5, Lab-52.5
Prereq: CHEM 101A or CHEM 103A
The first semester of a one-year course in organic chemistry for students not majoring in chemistry or biochemistry. CHEM 208A/208B is designed for students majoring in the life sciences, including pre-medical students. UC/CSU
C-ID CHEM 150; C-ID CHEM 160S (CHEM 208A + CHEM 208B)

CHEM 208B. Chemical Structure/Reactivity II (4)
Lec-52.5, Lab-52.5
Prereq: CHEM 208A or 212A
The second semester of a one-year course in organic chemistry for students not majoring in chemistry or biochemistry. CHEM 208A/208B is designed for students majoring in the life sciences, including pre-medical students. UC/CSU
C-ID CHEM 160S (CHEM 208A + CHEM 208B)

CHEM 212A. Organic Chemistry (6)
Lec-70, Lab-105
Prereq: CHEM 101B
The first semester of a one-year course in organic chemistry for students who major in chemistry, biochemistry, and other chemistry intensive sciences. CHEM 2l2A/2l2B also satisfies the organic chemistry requirements of medical schools. UC/CSU
C-ID CHEM 150; C-ID CHEM 160S (CHEM 212A + CHEM 212B)
CHEM 212A may be substituted for CHEM 208A.
Offered Fall semesters

CHEM 212B. Organic Chemistry II (6)
Lec-70, Lab-105
Prereq: CHEM 208A or CHEM 212A
The second semester of a one-year course in organic chemistry for students who major in chemistry, biochemistry, and other chemistry intensive sciences. A fundamental study of organic chemistry including nomenclature, physical properties, reactions, mechanisms, multi-step synthesis, theoretical aspects, and structure determination of major classes of organic compounds. UC/CSU
C-ID CHEM 160S (CHEM 212A + CHEM 212B)
CHEM 212B may be substituted for CHEM 208B.
Offered Spring semesters

Child Development and Family Studies

Office: (New Building) Multi-Use Bldg. MUB 249
Phone Number: (415) 239-3172
Web Site:*www.ccsf.edu/cdev*

Announcement of Curricula

General Information

The Child Development and Family Studies Department provides educational curriculum for adult students interested in entering or continuing education for careers with children and provides services to support the needs of children and families from diverse backgrounds. The Department offers a wide variety of credit, noncredit and grant-funded programs and services that further adult understanding of how children learn, grow and develop, including: educational and practicum experiences for adults, quality ECE programs for infants, preschoolers and school-age children, and youth, parent education programs at varied times and community locations throughout San Francisco, and transfer courses for students interested in K – 12 teaching, CTE teaching and related careers.

Child and Adolescent Development Major (AA-T)

The Associate in Arts in Child and Adolescent Development for Transfer (AA -T) degree provides students with an interdisciplinary course of study in Child Development. For students not interested in teaching or in caring for children in group settings, this major provides an alternative preparation for students interested in working with children and families in a range of settings and provides lower division major preparation for transfer, particularly to Child and Adolescent Development majors at the California State University. This major provides coursework examining research that focuses on developmental outcomes and factors spanning conception to emerging adulthood. This option of study is intended for students who aspire to careers in developmental research, public policy, social work, school psychology, family support and similar fields. The courses provide content breadth in Child Development.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and compare the stages of human development from conception to emerging adulthood.
- Analyze developmental milestones and typical and atypical development.
- Apply statistical and research methodologies for comparing and contrasting data on developmental outcomes and conditions.
- Differentiate cultural and historical impacts on development
- Analyze and apply relevant psychological concepts to self-reflection and everyday life.

Students who wish to earn the Associate in Arts in Child and Adolescent Development for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

Assuming students start this AA-T program with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Child and Adolescent Development

Course	Units
Required core courses:	
PSYC 1 General Psychology	3.0
CDEV 53 Child Growth and Development	3.0
Choose one of the following Statistics core courses:	
ECON 5 Introductory Statistics for Economics, Business and Social Sciences	5.0
PSYC 5 Statistics for Behavioral Sciences	5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
MATH 80 Probability and Statistics	5.0
Choose 3 courses (minimum of 9 semester units) from the following:	
GEOG 4 Cultural Geography	3.0
PSYC 21 Lifespan Development	3.0

CDEV 67 Child, Family, and Community 3.0
CDEV 73 Observing and Assessing Young Children 3.0
BIO 9 Human Biology 4.0
or BIO 11 Science of Living Organisms 4.0
Total: . . . . . 20.0 – 21.0

Early Childhood Education Major (AS-T)

Associate in Science in Early Childhood Education for Transfer. This degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU or articulated private college or university program. Students completing the degree are guaranteed admission to the CSU system, but not to a particular campus or major; they may also be guaranteed admission to participating private institutions. A student graduating with an Associate in Science in Early Childhood Education for Transfer (Early Childhood Education AS-T) may transfer to complete a Bachelor's Degree in Early Childhood Education, Child and Adolescent Development, Family and Consumer Sciences, Human Communication, Human Services, Liberal Studies or related fields.

Learning Outcomes

Upon completion of this program, students will be able to:

- Articulate stages of child growth and development, including brain development, sensory motor development, cognitive development, language development, physical development and social-emotional development.
- Examine the role of families and communities in the lives of children and youth, including secure relationships, community resources, diverse family structures, inclusion and the development of a community commitment to social justice.
- Explain developmentally appropriate practice and diverse philosophical approaches in early childhood settings.
- Describe the fundamental importance of play, sensory learning, inclusion and nurturing and responsive relationships.
- Compare and apply practices that promote professional and personal integrity among children, families, staff and colleagues including reflective practice, collaboration and teamwork strategies.
- Design and apply cross-cultural skills and knowledge to develop curriculum, communicate with families, build relationships with families and support the positive identity development of culturally diverse children and families.
- Describe safe and healthful environments in early education settings and in the community.
- Evaluate and demonstrate formal and informal observations and assessments of children to document development, play, growth and learning.

Students who wish to earn the Associate in Science in Early Childhood Education for Transfer (AS-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

Assuming students start this AS-T with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AS-T in Early Childhood Education

Course . . . . . Units
Required courses:
CDEV 53 Child Growth and Development 3.0
CDEV 65 Orientation to ECE Principles and Practice . . 3.0
CDEV 66 Introduction to Early Childhood Curriculum 3.0
CDEV 67 Child, Family, and Community 3.0
CDEV 72 Supervised Field Experience in Early Childhood Education. 3.0
CDEV 73 Observing and Assessing Young Children 3.0
CDEV 92 Health, Safety and Nutrition in Early Childhood Programs 3.0
CDEV 93 Cultural Diversity in Early Childhood Education. 3.0
Total: 24.0

Child Development and Family Studies Major (AS)

The Child Development Program is designed so that students may satisfy the requirements for graduation from the College with a major in Child Development and Family Studies. Students are prepared for a variety of careers including early childhood education, family support, recreation, after-school and school-based professions and after additional study, can enter a variety of careers including TK-12 classroom teaching, school administration, etc. The program is aligned with other ECE/CDEV majors throughout the state Curriculum Alignment Project to allow for statewide uniformity in the major and portability of coursework from other California Community Colleges.

Learning Outcomes

Upon completion of this program, students will be able to:

- Articulate the stages of child growth and development, including brain development, sensory motor development, cognitive development, language development, physical development and social-emotional development.
- Examine the role of families and communities in the lives of children and youth, including secure relationships, community resources, diverse family structures, inclusion and the development of a community commitment to social justice.
- Explain developmentally appropriate practice and diverse philosophical approaches in early childhood settings.
- Describe the fundamental importance of play, sensory learning, inclusion and nurturing and responsive relationships.
- Compare and apply practices that promote professional and personal integrity among children, families, staff and colleagues including reflective practice, collaboration and teamwork strategies.
- Design and apply cross-cultural skills and knowledge to develop curriculum, communicate with families, build relationships with families and support the positive identity development of culturally diverse children and families.
- Describe safe and healthful environments in early education settings and in the community.
- Evaluate and demonstrate formal and informal observations and assessments of children to document development, play, growth and learning.

Enrollment is open to all students interested in working with children in early childhood, after-school or community based programs or in

gaining knowledge needed to become employed in related professions such as TK-12 teacher, recreation worker, paraprofessional, youth worker or to transfer for further study.

The Degree curriculum requires a total of 60 semester units. After completing units from the Child Development Department and the General Education Requirements, a student may enroll in any approved course (as electives) to total the 60 units for an A.S. Degree.

Assuming students start this AS with graduation-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Child Development and Family Studies

Course	Units
Required courses:	
CDEV 53 Child Growth and Development	3.0
CDEV 65 Orientation to ECE Principles and Practice	3.0
CDEV 66 Introduction to Early Childhood Curriculum	3.0
CDEV 67 Child, Family, and Community	3.0
CDEV 72 Supervised Field Experience in Early Childhood Education.	3.0
CDEV 73 Observing and Assessing Young Children	3.0
CDEV 92 Health, Safety and Nutrition in Early Childhood Programs	3.0
CDEV 93 Cultural Diversity in Early Childhood Education.	3.0
Choose 6 units from the following elective courses:	
CDEV 68 Interactions with Children	3.0
CDEV 74 Children with Special Needs	3.0
CDEV 96 Understanding Children with Challenging Behaviors	3.0
CDEV 98 Sensory Motor Development and Activities	3.0
CDEV 108 Communicating with Families	3.0
CDEV 120 Special Education TK-12	3.0
Total:	**30.0**

Child Development: Administration Certificate

This certificate prepares students interested in assuming leadership and administrative positions in early childhood, school-age and other community-based settings. Competencies required to lead and administer a variety of programs are included as well as introductory business and management strategies appropriate for leading programs serving children, youth and their families.

This certificate satisfies the educational requirements and courses needed for the specialization component of the California Commission on Teacher Credentialing, Child Development Permit.

Learning Outcomes

Upon completion of this program, students will be able to:

- Differentiate and describe stages of child growth and development.
- Examine the role of families and communities in the lives of children and youth.
- Distinguish developmentally appropriate practice and diverse philosophical approaches in a range of settings for children and youth.
- Identify the general competencies and regulatory requirements needed to administer a child development program.
- Classify and explain the components of supervision needed to lead a child development program.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Child Development: Administration

Course	Units
Required	
CDEV 53 Child Growth and Development	3.0
CDEV 65 Orientation to ECE Principles and Practice	3.0
CDEV 66 Introduction to Early Childhood Curriculum	3.0
CDEV 67 Child, Family, and Community	3.0
Required courses for area of specialization: Administration	
CDEV 90 Early Childhood Administration I	3.0
CDEV 91 Early Childhood Administration II	3.0
Total:	**18.0**

Child Development: Family Childcare Certificate

This certificate is appropriate for those students interested in opening or further developing a licensed family child care program or beginning a career in family child care. Current family child care providers interested in topical content and specific subjects would also be served.

The Certificate of Accomplishment will be granted upon successful completion of the required number of units in course work. A grade of "C" or better is required in all certificate courses.

Learning Outcomes

Upon completion of this program, students will be able to:

- Differentiate basic components of and professional responsibilities in family childcare settings.
- Distinguish and describe the elements of family child care, including regulatory requirements.
- Explain the developmental needs of children and families when planning family child care programs.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Child Development: Family Childcare

Course	Units
Choose three of the following	
CDEV 41E Starting A Large Family Child Care or Center.	1.0
CDEV 41I Advanced Business Practices in Family Child Care	1.0
CDEV 41J Development of Infancy in Family Child Care	1.0
CDEV 41K Infant/Toddler Curriculum in Family Child Care	1.0
CDEV 44 Family Child Care Environmental Rating Scale	1.0
Choose three of the following	
CDEV 41C Issues in CDEV – Leadership Seminar	1.0
CDEV 41F Serving Children with Special Needs in Family Child Care	1.0
CDEV 41G Communicating with Families in Family Child Care	1.0

CDEV 41H Family Child Care Environment 1.0
CDEV 41N Music and Movement in Family Child Care 1.0
CDEV 41O Outdoor Learning in Family Child Care 1.0
CDEV 41P Mixed Ages in FamiIy Child Care 1.0
CDEV 41S Learning Activities in Family Child Care 1.0
CDEV 41V Exploring Math in Family Child Care 1.0
CDEV 41W Exploring Science in Family Child Care. . . . 1.0
Total: 6.0

Child Development: Infant/Toddler Care Certificate

This certificate prepares students to care for infants and toddlers in a range of educational settings. This certificate satisfies the specialty area in Infant /Toddler Care for the California Commission on Teacher Credentialing Child Development Permit.

Learning Outcomes

Upon completion of this program, students will be able to:

- Differentiate stages of child growth and development.
- Examine the role of families and communities in the lives of children and youth.
- Distinguish developmentally appropriate practice and diverse philosophical approaches in infant/toddler settings.
- Differentiate the critical elements of developmental needs for infants and toddlers.
- Apply understanding of infant and toddler development when caring for infants and toddlers.
- Examine and analyze appropriate curriculum choices for infants and toddlers.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Child Development: Infant/Toddler Care

Course . . . . . Units
Required
CDEV 53 Child Growth and Development 3.0
CDEV 65 Orientation to ECE Principles and Practice . . 3.0
CDEV 66 Introduction to Early Childhood Curriculum 3.0
CDEV 67 Child, Family, and Community 3.0
Choose 6 units from following courses
CDEV 61 Infant/Toddler Growth and Development 3.0
CDEV 62 Infant/Toddler Care in Group Settings. 3.0
CDEV 85 Relationship-based Infant/Toddler Care 3.0
Total: 18.0

Child Development: Pre-Teacher Certificate

This Certificate of Accomplishment in TK-12 Pre-Teacher is an entry level certificate to introduce students to the field of TK-12 education and to begin on a pathway to earning an AS degree, a BA and a Multiple Subject or Single Subject credential. This certificate represents a beginning step for future TK to 12th grade classroom teachers. Coursework focuses on preparing students for teaching as a career and includes key content and fieldwork. The program prepares students to be classroom aides, para-professionals and to begin careers as assistants in TK to 12th grade classrooms as a first step.

Learning Outcomes

Upon completion of this program, students will be able to:

- Differentiate stages of growth and development of children and youth.
- Distinguish developmentally appropriate practice and diverse philosophical approaches in TK-12 settings.
- Examine the role of families and communities in TK-12 education.
- Examine the role of the TK-12 teacher and trends in public education.
- Organize the steps to becoming a credentialed teacher in California and examine current educational requirements.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Child Development: Pre-Teacher

Course . . . . . Units
Required courses:
CDEV 53 Child Growth and Development 3.0
CDEV 150 Orientation to TK-12 Education 3.0
Choose one of the following field experience courses:
CDEV 71 Elementary Supervised Field Experience 3.0
CDEV 75 High School Supervised Field Experience 3.0
Choose 6 units from the following elective courses:
CDEV 67 Child, Family, and Community 3.0
CDEV 120 Special Education TK-12 . . . . . 3.0
P SC 11 Conceptual Physical Science 3.0
P SC 11L Physical Science Laboratory. 1.0
LERN 53A Test Prep for CBEST Basic Skills Test-English 0.5
LERN 53B Test Prep: Standardized Exams: CBEST-Math 0.5
LERN 53C Test Prep: Standardized Exams: CSET 0.5
LERN 53D Test Prep for CSET Multiple Subjects Exam: Math 0.5
Total: 15.0

Child Development: Professional Development and Advocacy Certificate

The Professional Development & Advocacy Certificate prepares students to better understand the decisions and beliefs that shape policies and programs for children and families and to advocate for improvements and changes. This certificate builds upon practitioner content in the field and extends to coursework that introduces advocacy and the importance of professional development to improve quality settings for children and youth.

Learning Outcomes

Upon completion of this program, students will be able to:

- Explain the stages of child growth and development across all domains including brain, sensory motor, language, cognitive, physical and social-emotional development.
- Examine the role of families and communities in the lives of children and youth, including secure relationships, community resources, diverse family structures and the development of a community commitment to social justice.

- Articulate developmentally appropriate practice and diverse philosophical approaches in early childhood settings.
- Analyze and examine the impact of federal and state policies on children and families and advocacy strategies in the field of early childhood education.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Child Development: Professional Development and Advocacy

Course	Units
Required courses:	
CDEV 53 Child Growth and Development	3.0
CDEV 65 Orientation to ECE Principles and Practice	3.0
CDEV 66 Introduction to Early Childhood Curriculum	3.0
CDEV 67 Child, Family, and Community	3.0
Choose 1 unit from the following area of specialization: Professional Development and Advocacy elective courses:	
CDEV 41B Issues in CDEV Teacher Seminar	0.5
CDEV 41C Issues in CDEV – Leadership Seminar	1.0
CDEV 41L Advocacy and Professional Standards in ECE	1.0
Choose 3 units from the following elective courses:	
CDEV 41M Substitute Teaching in ECE Programs.	1.0
CDEV 41U Dual Language Learning in Early Childhood	3.0
CDEV 44 Family Child Care Environmental Rating Scale	1.0
CDEV 45 ITERS and ECERS Rating ScaIe	1.0
CDEV 46 ECE Teacher-Child Interactions Using the Classroom Assessment Scoring System (CLASS)	1.0
CDEV 81 Early Literacy Development--Preschool.	1.0
CDEV 87 Promoting Social and Emotional Competence in Young Children	3.0
CDEV 105 Adult Supervision and Mentoring in Early Care and Education	2.0
CDEV 114 Work Experience in Child Development	1.0 – 3.0
Total:	**16.0**

Child Development: School-Age Care Certificate

This Certificate prepares students to work with school-age children in group educational settings and satisfies the educational requirements for the California Commission on Teacher Credentialing's Child Development School Age Permit.

Learning Outcomes

Upon completion of this program, students will be able to:

- Differentiate and describe stages of child growth and development.
- Examine the role of families and communities in the lives of children and youth.
- Distinguish developmentally appropriate practice and diverse philosophical approaches in a range of settings for children and youth.
- Classify and distinguish the unique characteristics of child development settings for older, school-age children in out-of-school time settings.
- Analyze the core teaching competencies practiced in school-age education.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Child Development: School-Age Care

Course	Units
Required courses:	
CDEV 53 Child Growth and Development	3.0
CDEV 65 Orientation to ECE Principles and Practice	3.0
CDEV 66 Introduction to Early Childhood Curriculum	3.0
CDEV 67 Child, Family, and Community	3.0
Required courses for area of specialization: School-Age Care	
CDEV 95 School-Age Child Care Curriculum	3.0
CDEV 97 School Age Growth & Development.	3.0
Total:	**18.0**

Child Development: Violence Intervention in Early Childhood Certificate

This Certificate prepares students to implement trauma-informed practices in community-based organizations and educational settings with a focus on how to understand and support families and children exposed to violence. This Certificate satisfies the educational requirements for the Specialization Component of the California Commission on Teacher Credentialing's Child Development Permit.

Learning Outcomes

Upon completion of this program, students will be able to:

- Differentiate and describe stages of child growth and development.
- Examine the role of families and communities in the lives of children and youth.
- Distinguish developmentally appropriate practice and diverse philosophical approaches in a range of settings for children and youth.
- Analyze the impact of violence and trauma on children and families.
- Assess violence prevention and intervention strategies for children, families and communities.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Child Development: Violence Intervention in Early Childhood

Course	Units
Required courses:	
CDEV 53 Child Growth and Development	3.0
CDEV 66 Introduction to Early Childhood Curriculum	3.0
CDEV 67 Child, Family, and Community	3.0
CDEV 65 Orientation to ECE Principles and Practice	3.0
Required courses for area of specialization: Violence Intervention	
CDEV 100 Violence and Its Impact on Children and Their Families	3.0
CDEV 101 Introduction to Violence Intervention	3.0
Total:	**18.0**

Child Development: Youth Worker Certificate

The Youth Worker Certificate is designed to prepare students interested in pursuing careers with older children and youth in a variety of settings. Content includes youth development principles relevant to working in group or one-on-one settings with older children and youth. Students can also pursue transfer opportunities in recreation, child and adolescent development, social work, teaching, health education and other related fields.

Learning Outcomes

Upon completion of this program, students will be able to:

- Compare the developmental needs of older children and youth when planning curriculum for youth programs in the community.
- Examine the role of families and communities in the lives of children and youth.
- Analyze the emerging field of youth worker and examine the variety of settings where youth are served.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Child Development: Youth Worker

Course	Units
Required	
CDEV 67 Child, Family, and Community	3.0
CDEV 78 Supervised Field Experience in Community Youth Organizations	3.0
CDEV 79 Youth Program Development	3.0
HLTH 65 Youth Development & Leadership	3.0
Choose one of the following courses	
CDEV 53 Child Growth and Development	3.0
CDEV 97 School Age Growth & Development	3.0
Choose 3 units from the following courses	
IDST 80A Diversity and Social Justice: Racism	0.5
IDST 80C Diversity and Social Justice: Sexism	0.5
IDST 80D Diversity and Social Justice: Heterosexism	0.5
IDST 80E Diversity and Social Justice: Ableism	0.5
IDST 80F Diversity and Social Justice: Class and Classism	0.5
IDST 80G Diversity and Social Justice: Transphobia	0.5
IDST 81A Diversity: Ageism and Adultism (Age-based Oppression)	1.0
IDST 81B Diversity and Social Justice: Anti-Semitism/Anti-Arabism	1.0
CDEV 99 Sensory Processing Disorder in Children	1.0
CDEV 121 Children with ADHD	1.0
CDEV 122 Social Emotional Differences K-12	1.0
CDEV 123 Learning Disabilities	1.0
CDEV 124 Individualized Education Programs	1.0
CDEV 125 Children's Emotional Development	1.0
Choose 6 units from the following elective courses:	
ADMJ 51 Juvenile Procedures	3.0
ADMJ 59 Organized Crime	3.0
CDEV 71 Elementary Supervised Field Experience	3.0
CDEV 95 School-Age Child Care Curriculum	3.0
CDEV 97 School Age Growth & Development	3.0
CDEV 100 Violence and Its Impact on Children and Their Families	3.0
HLTH 38 Trauma, Resilience and Recovery	3.0
HLTH 67 HIV and Hepatitis Navigation Skills	3.0
WGST 54 The Politics of Sexual Violence	3.0
WGST 55 Ending Sexual Violence: Peer Education	3.0
Total:	**24.0**

ECE Associate Teacher Certificate

This certificate includes Early Childhood Education (ECE) courses and is an entry level certificate for students preparing to work with groups of children in early childhood settings. The courses are required by the Department of Social Services, Community Care Licensing to work in licensed child care facilities in California. Completing the certificate also satisfies the educational requirements for the Associate Teacher level of the California Commission on Teacher Credentialing's Child Development Permit. These core courses form the foundational requirements for continued work with young children in a variety of educational and classroom settings, including ECE, infant/toddler care, school-age care, and after additional study, K-12 classrooms.

Learning Outcomes

Upon completion of this program, students will be able to:

- Differentiate stages of child growth and development.
- Examine the role of families and communities in the lives of children and youth.
- Distinguish developmentally appropriate practice and diverse philosophical approaches in a range of settings for young children.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in ECE Associate Teacher

Course	Units
Required Courses:	
CDEV 53 Child Growth and Development	3.0
CDEV 65 Orientation to ECE Principles and Practice	3.0
CDEV 66 Introduction to Early Childhood Curriculum	3.0
CDEV 67 Child, Family, and Community	3.0
Total:	**12.0**

ECE Practitioner Certificate

This Certificate provides the Early Childhood Education Practitioner with a course of study that satisfies multiple requirements and content needs. The core licensing requirements required by the Department of Social Services, Community Care Licensing are satisfied as well as the courses required for the California Commission on Teacher Credentialing, Child Development Permit. Students interested in working as a classroom teacher in ECE, early elementary (TK) or similar settings will develop the foundational knowledge of how children learn and grow and what they need for optimal development in a range of settings.

Learning Outcomes

Upon completion of this program, students will be able to:

- Differentiate stages of child growth and development.
- Examine the role of families and communities in the lives of children and youth.
- Distinguish developmentally appropriate practice and diverse philosophical approaches in a range of settings for young children.

- Distinguish best practices and professional competencies for a variety of careers in teaching.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in ECE Practitioner

Course	Units
Required courses:	
CDEV 53 Child Growth and Development	3.0
CDEV 65 Orientation to ECE Principles and Practice	3.0
CDEV 66 Introduction to Early Childhood Curriculum	3.0
CDEV 67 Child, Family, and Community	3.0
Choose 3 units from following elective courses:	
CDEV 72 Supervised Field Experience in Early Childhood Education	3.0
CDEV 73 Observing and Assessing Young Children	3.0
CDEV 92 Health, Safety and Nutrition in Early Childhood Programs	3.0
CDEV 93 Cultural Diversity in Early Childhood Education	3.0
Choose 3 units required from following depth elective courses:	
CDEV 64 Introduction to Stress Reduction and Coping in Early Childhood and Elementary School Programs	3.0
CDEV 68 Interactions with Children	3.0
CDEV 76 Supporting LGBT Families in Educational Settings	3.0
CDEV 98 Sensory Motor Development and Activities	3.0
CDEV 106 Exploring Science in Early Childhood	3.0
CDEV 107 Introduction to Child Nutrition	3.0
CDEV 108 Communicating with Families	3.0
Total:	**18.0**

Introduction to Special Education Certificate

This Certificate of Accomplishment in Special Education-Autism is a 8 unit entry point into the field of Special Education and prepares students to work in entry-level positions with children with special needs in a variety of school settings. It completes the educational requirements for a Behavioral Specialist Internship working one-on-one with children with autism. These units also count towards a Certificate of Achievement in Special Education.

Learning Outcomes

Upon completion of this program, students will be able to:

- Distinguish appropriate interventions for children with autism aged 0-5.
- Plan differentiated teaching strategies for creating developmentally appropriate inclusive classrooms.
- Differentiate strategies for collaborating with families and connecting families with community resources.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Introduction to Special Education

Course	Units
Required courses:	
CDEV 41T Early Autism Spectrum Disorders	1.0
CDEV 74 Children with Special Needs	3.0
or CDEV 120 Special Education TK-12	3.0
CDEV 53 Child Growth and Development	3.0
or CDEV 67 Child, Family, and Community	3.0
Choose 1 unit from the following elective courses:	
CDEV 121 Children with ADHD	1.0
CDEV 122 Social Emotional Differences K-12	1.0
CDEV 123 Learning Disabilities	1.0
CDEV 124 Individualized Education Programs	1.0
Total:	**8.0**

Special Education TK-12 Certificate

This Certificate of Achievement in Special Education TK (transitional kindergarten) -12 builds on the Special Education Certificate of Accomplishment to build knowledge, skills and abilities related to inclusive and special education in TK-12 settings working with children 4-18 years old. This certificate completes additional educational requirements for Special Education teaching assistant positions and is part of a pathway towards earning a Special Education and/or Multiple Subjects Teaching Credential to teach in TK-5 classrooms.

Learning Outcomes

Upon completion of this program, students will be able to:

- Differentiate stages of child growth and development, with particular emphasis on typical and atypical development.
- Examine the role of families and communities in the lives of children and youth, particularly children and youth with special needs.
- Describe developmentally appropriate practices for the inclusion of children with special needs in TK-12 settings.
- Categorize sensory and learning challenges in TK-12 aged children and identify strategies to address them.

The minimum time for completion of the certificate is 2 semesters. Completion will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Special Education TK-12

Course	Units
Required Courses:	
CDEV 53 Child Growth and Development	3.0
CDEV 67 Child, Family, and Community	3.0
CDEV 120 Special Education TK-12	3.0
CDEV 150 Orientation to TK-12 Education	3.0
Choose one of the following courses:	
CDEV 95 School-Age Child Care Curriculum	3.0
CDEV 97 School Age Growth & Development	3.0
Choose three of the following one-unit courses:	
CDEV 121 Children with ADHD	1.0
CDEV 122 Social Emotional Differences K-12	1.0
CDEV 123 Learning Disabilities	1.0
CDEV 124 Individualized Education Programs	1.0
Total:	**18.0**

Special Education: ECE Intervention Certificate

This Certificate of Achievement builds on the Introduction to Special Education Certificate of Accomplishment and continues the pathway to an ongoing career in Early Childhood Special Education. The coursework builds skills for general and special education teachers to understand the strengths and challenges of children with special needs and to describe inclusive strategies to respond to them. The course

work prepares students to work with young children with special needs in a range of settings, both one-on-one and group, in both general education and special education environments. Taken together, the courses complete educational requirements for the California Commission on Teacher Credentialing's Child Development Permit and satisfy the core licensing requirements required by the Department of Social Services Community Care Licensing. The Certificate of Accomplishment will be granted upon successful completion of the required number of units of coursework.

Learning Outcomes

Upon completion of this program, students will be able to:

- Differentiate stages of child growth and development, with particular emphasis on typical and atypical development.
- Examine the role of families and communities in the lives of children and youth, particularly children with special needs.
- Distinguish developmentally appropriate practice and diverse philosophical approaches in early childhood settings.
- Compare differentiated teaching strategies for creating inclusive early childhood classrooms and engaging children with diverse learning styles, strengths and needs.
- Categorize sensory and learning challenges for children and identify strategies to address them.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Special Education: ECE Intervention

Course	Units
Required Courses:	
CDEV 74 Children with Special Needs	3.0
CDEV 53 Child Growth and Development	3.0
CDEV 65 Orientation to ECE Principles and Practice	3.0
CDEV 66 Introduction to Early Childhood Curriculum	3.0
CDEV 67 Child, Family, and Community	3.0
Choose 3 units from the following course electives:	
CDEV 96 Understanding Children with Challenging Behaviors	3.0
CDEV 41T Early Autism Spectrum Disorders	1.0
CDEV 99 Sensory Processing Disorder in Children	1.0
CDEV 124 Individualized Education Programs	1.0
CDEV 125 Children's Emotional Development	1.0
Total:	**18.0**

Announcement of Courses

Child Development

Credit, Degree Applicable Courses:

CDEV 11B. Pediatric Preventive Health Ed (.5)
Lec-9 P/NP available
Instruction in recognition and management of preventive health practices, prevention health policies, and injury prevention in the child care setting. Course partially fulfills the requirement of AB243 mandated Health and Safety Training established by State EMS Authority for childcare providers. CSU

CDEV 11C. First Aid Care for Children (.5)
Lec-9
Identification, transmission, control, and care for common childhood illness and communicable disease. Child care first aid practices and procedures for the management of well children with mild illness, chronic health conditions and special needs. This course fulfills the partial continuing education requirement of the AB 243 mandated Health and Safety Training established by the State EMS Authority for Child Care Providers. CSU

CDEV 41B. Issues in CDEV-Teacher Seminar (.5)
Lec-8.75 P/NP available
Teachers in ECE, K-12 and youth-serving programs attend seminars on emerging trends and issues related to improving program quality, understanding child development, specific curricular content, advocacy and community resources in the SF Bay Area, assessment and planning and teaching and learning. CSU
Offered on occasion

CDEV 41C. Issues in CDEV-Leadership Seminar (1)
Lec-17.5 P/NP available
Courses in seminar format for practitioners, directors, site supervisors, leaders and staff in programs serving children and youth related to professional development, including topics such as: emerging trends in the field, quality improvement efforts, advocacy, staff supervision, legal and licensing issues, facilities and fund development and other topics as needed. CSU
Offered on occasion

CDEV 41D. The Child Development Permit and Professional Growth Advising (1)
Lec-17.5
Overview of the Child Development Permit Matrix, including the application process, recent changes and requirements for education and experience. Emphasis on the role of the Professional Growth Advisor using the "California Early Childhood Educator (ECE) Competencies". Utilizing the CA ECE Registry and the role of the Registry in tracking professional development and academic coursework will also be covered. CSU
Offered on occasion

CDEV 41E. Starting A Large Family Child Care or Center (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Requirements for opening a child care center or family child care, or expanding an existing family child care. Emphasis on space and program considerations, including those unique to San Francisco. Strategies for the provision of quality, developmentally appropriate and culturally relevant services to children and families. CSU
Offered on occasion

CDEV 41F. Serving Children with Special Needs in Family Child Care (1)
Lec-17.5 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
An overview of the range of developmental differences of children with special needs with an emphasis on the role of the family child care provider in designing environments to include children with special needs; creating appropriate accommodations; sharing community support strategies and resources with families; and participating in the Individualized Education Plan (IEP) process. CSU
Offered on occasion

CDEV 41G. Communicating with Families in Family Child Care (1)
Lec-17.5
Recommended Prep: ESL 186 or placement into ESL 188 or readiness for college-level English
Techniques and strategies for communicating the developmental needs of children with a variety of social, economic, cultural and family structures are considered. Importance of developing positive family-provider communication for successful relationships in family child care settings. CSU
Offered on occasion

CDEV 41H. Family Child Care Environment (1)
Lec-17.5
Recommended Prep: ESL 186 or placement into ESL 188 or readiness for college-level English
Overview of developmentally appropriate environments in home-based group care for children at various ages and stages, and areas of development. The role of licensed family child care providers in supporting growth and development in all domains, particularly in physical-sensory motor development through thoughtful design of the environment. CSU
Offered on occasion

CDEV 41I. Advanced Business Practices in Family Child Care (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Overview of the operation of a family child care. Information on continuous compliance with licensing requirements, procedures for a successful business, marketing and meeting the developmental needs of young children in group care. CSU
Offered on occasion

CDEV 41J. Development of Infancy in Family Child Care (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A brief introduction to infant development from prenatal care to toddler years for Family Child Care (FCC) providers. Providing Developmentally Appropriate Practices (DAP) to enhance their skills in caring for infants and toddlers in a Family Child Care setting. CSU
Offered on occasion

CDEV 41K. Infant/Toddler Curriculum in Family Child Care (1)
Lec-17.5
A brief introduction to infant/toddler curriculum with an emphasis on the significance of how infants and toddlers learn. The importance of quality care, relationships, and planning curriculum and environments that meet the needs of young children in a Family Child Care (FCC) setting will be addressed, CSU
Offered on occasion

CDEV 41L. Advocacy and Professional Standards in ECE (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Professional standards in child development including quality rating scales, the profession's code of ethics, and strategies for advocacy. CSU
Offered on occasion

CDEV 41M. Substitute Teaching in ECE Programs (1)
Lec-17.5 P/NP available
This course is specifically designed to provide students with a basic understanding of working as a substitute teacher in licensed childcare settings. Students will learn strategies for effectively functioning as a temporary teaching team member that includes bringing their own supplies, arriving early, and having a back-up plan. CSU
Offered on occasion

CDEV 41N. Music and Movement in Family Child Care (1)
Lec-17.5
Integrating music and movement activities into the family child care curriculum for infants, toddlers and preschoolers. Opportunities for physical, cognitive and social-emotional and cultural learning will be covered along with effective strategies for facilitating small group activities. CSU
Offered on occasion

CDEV 41O. Outdoor Learning in Family Child Care (1)
Lec-17.5, field trips
An exploration of outdoor learning opportunities for young children in home-based child care focused on the developmental needs of infants, preschoolers and school-age children. Active and sensory play, discoveries in nature, imaginative and creative arts, safety standards, design elements, and community resources. CSU
Offered on occasion

CDEV 41P. Mixed Ages in FamiIy Child Care (1)
Lec-17.5
An exploration of the benefits and challenges of meeting the developmental needs of mixed ages of children in family child care. Environmental adaptations for time together and time apart, daily planning and flexibility, and effective strategies to maximize the benefits will be examined and practiced. CSU
Offered on occasion

CDEV 41S. Learning Activities in Family Child Care (1)
Lec-17.5
An examination of the learning activities during play and routine care in family child care programs. Materials, arrangement, scheduling and caregiver strategies that support language and reasoning, problem solving, concept development and socialization will be emphasized. CSU
Offered on occasion

CDEV 41T. Early Autism Spectrum Disorders (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Overview of the unique characteristics and needs of young children with Autism Spectrum Disorder (ASD). Roles of paraprofessionals and behavior interventionists in supporting young children with autism will be examined. Early intervention strategies will be emphasized. CSU
Offered on occasion

CDEV 41U. Dual Language Learning in Early Childhood (3)
Lec-52.5
Emphasis is on the acquisition of second languages in Dual Language and Bilingual Early Care and Education programs. Current research on language acquisition, public policy implications, best practices for language curriculum development and strategies for authentic assessment and home/school connections will be emphasized. CSU
Offered on occasion

CDEV 41V. Exploring Math in Family Child Care (1)
Lec-17.5
An exploration of the developmental sequence of early mathematical concepts and their application in the family child care setting. Selection of materials, the development of activities and games to

foster math learning and the practice of using teachable moments during daily routine and play experiences. CSU
Offered on occasion

CDEV 41W. Exploring Science in Family Child Care (1)
Lec-17.5
An active exploration of the materials and strategies that can support young children's interest in how the world works. Emphasis on the natural and physical sciences and the promotion of inquiry-based experiences in family child care. CSU
Offered on occasion

CDEV 44. Family Child Care Environmental Rating Scale (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
The Family Child Care Environmental Rating Scale, Revised (FCCERS-R) for family child care providers in multi-age groupings. The FCCERS-R continues to be used nationally and locally to measure quality of care of family child care programs. This course is designed to support current practitioners in using the FCCERS-R in family child care programs. CSU
Offered on occasion

CDEV 45. ITERS and ECERS Rating ScaIe (1)
Lec-17.5
Examination of standardized environmental rating scales for early care and education programs. Provides knowledge and skills necessary for administering and interpreting the Early Childhood Environment Rating Scale-third edition (ECERS-3) and the Infant Toddler Environment Rating Scale-third edition (ITERS-3) for the development of high quality care. CSU
Offered on occasion

CDEV 46. ECE Teacher-Child Interactions Using the Classroom Assessment Scoring System (CLASS) (1)
Lec-17.5
Overview of the Classroom Assessment Scoring System (CLASS) with an emphasis on the importance of adult-child interactions for development and learning outcomes, the analysis of classroom practice, and the use of the scoring instrument. CSU
Offered on occasion

CDEV 53. Child Growth and Development (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Examines the progression of development in the physical, cognitive, social/emotional domains and identifies developmental milestones for children from conception through adolescence. Emphasis on interactions between biological processes and environmental factors. Students will observe children, evaluate individual differences, and analyze characteristics of development at various stages according to developmental theories. UC/CSU
C-ID CDEV 100

CDEV 61. Infant/Toddler Growth and Development (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Physical/sensory-motor, social-emotional, and cognitive/language development of the prenatal period throughout the first three years will be studied with an emphasis on interactions between genetic and environ mental factors. Brain development research and major developmental theories are the guiding principles for practice. Caring adults as a foundation for all development will be emphasized. CSU

CDEV 62. Infant/Toddler Care in Group Settings (3)
Lec-52.5, field trips
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Introduction to relationship-based care in infant/toddler programs supported by current brain development research. Curriculum planning is based on observation, meeting infants/toddlers' needs and providing positive guidance. Focus is on primary care, continuity of care, and individualized care in small groups. CSU

CDEV 64. Introduction to Stress Reduction and Coping in Early Childhood and Elementary School Programs (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Overview of theories, issues, concerns and concepts related to the origins of stress; exploration of stress reduction techniques and coping strategies designed for young children and teachers in early childhood and elementary school programs. CSU
Offered on occasion

CDEV 65. Orientation to ECE Principles and Practice (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Theoretical perspectives & historical contexts of developmentally-appropriate practices applied to environments & programs for children from birth through age eight. Examines the role of relationships, constructive adult-child interactions, & teaching strategies in supporting development across all domains for all children, including those from diverse backgrounds (culture, learning styles, special needs). Evolution of professional practices promoting advocacy, ethics, and professional identity. CSU
C-ID ECE 120

CDEV 66. Introduction to Early Childhood Curriculum (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Appropriate curriculum and environments for children from birth to age 8. Teachers' roles in supporting development and joy of learning for all children using observation and assessment and emphasizing the essential role of play through language, literacy, social/emotional learning, physical/motor activity, sensory learning, art, creativity, math, and science. CSU
C-ID ECE 130

CDEV 67. Child, Family, and Community (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
An examination of the developing child in a societal context focusing on the interrelationship of family, school, and community, and emphasizing historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. UC/CSU
C-ID CDEV 110

CDEV 68. Interactions with Children (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Children's interactions and their relationship with teachers; dynamics of social interaction in the context of child growth and development; motivation and management of children's social behavior; working in childcare settings; current trends in care. CSU
Offered on occasion

CDEV 71. Elementary Supervised Field Experience (3)
Lec-26.5, Work-90-112.5
Prereq: Approval of the Child Development Department
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Supervised fieldwork in diverse public elementary schools. Practical classroom experiences linking theory and practice, professionalism and comprehensive understanding of elementary school children and various roles of adults. Assessment and curriculum emphasized, as students design, implement and evaluate experiences for development and learning for elementary school children. One unit of credit is earned for each 60 hours of unpaid, or 75 hours of paid work. CSU
Offered Fall semesters

CDEV 72. Supervised Field Experience in Early Childhood Education (3)
Lec-26.5, Work-90
Prereq: CDEV 53; CDEV 65; CDEV 66; CDEV 67; Approval of the Child Development Department
Demonstration of early childhood teaching competencies under guided supervision. Practical classroom experiences linking theory and practice, professionalism, and comprehensive understanding of children and families. Child centered, play-oriented teaching, learning, assessment and curriculum as students design, implement and evaluate experiences for development and learning for young children. One unit of work experience credit is earned for each 60 hours of unpaid, or 75 hours of paid work. CSU
C-ID ECE 210

CDEV 73. Observing and Assessing Young Children (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Introduces the appropriate use of assessment and observation tools and strategies to document young children?s development and learning. The use of findings to inform and plan learning environments and experiences are emphasized. Recording strategies, rating systems, portfolios, and multiple assessment tools will be discussed, along with strategies for collaboration with families and professionals. CSU
C-ID ECE 200

CDEV 74. Children with Special Needs (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Early childhood teachers and paraprofessionals will explore the developmental strengths and needs of young children 0-8 years with special needs using inclusion strategies and techniques for partnering with families. CSU

CDEV 75. High School Supervised Field Experience (3)
Lec-26.5, Work-90-112.5
Prereq: Approval of the Child Development Department
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Supervised fieldwork in diverse secondary schools (grades 6-12). Practical classroom experiences linking theory and practice, with a comprehensive understanding of the needs of secondary school youth and the various roles of adults. An introduction to the secondary environment and Common Core Standards under guided supervision. One unit of work experience credit is earned for each 60 hours of unpaid or 75 hours of paid work. UC/CSU
Offered on occasion

CDEV 76. Supporting LGBT Families in Educational Settings (3)
Lec-52.5
Recommended Prep: CDEV 67
Analysis of challenges faced by lesbian, gay, bisexual and transgender (LGBT) families in educational settings and exploration of the role of educators and educational programs in creating inclusive, accepting and celebratory environments. CSU
Offered on occasion

CDEV 78. Supervised Field Experience in Community Youth Organizations (3)
Lec-26.5, Work-90-112.5
Prereq: Approval of the Child Development Department
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Supervised work experience in youth-serving agencies to make connections between theory and practice. Observation and evaluation of school-age children and youth, planning of group activities, and the role of adults in youth programs will be examined in this course. This course fulfills the requirement for the Community Youth Worker Certificate. One unit of work experience credit is earned for each 60 hours of unpaid or 75 hours of paid work. CSU
Offered Spring semesters

CDEV 79. Youth Program Development (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Explore various aspects of programming for youth, including curriculum planning, observation, evaluation and assessing developmental needs. Youth settings and programs will be examined with an emphasis on the cultivation of an "assets-based" model of youth development and leadership principles. This course fulfills the requirement for the Community Youth Certificate. CSU
Offered Fall semesters

CDEV 81. Early Literacy Development--Preschool (1)
Lec-17.5
Recommended Prep: Readiness for college-level English or ESL 188
Strategies in preschool to develop language, pre-reading and pre-writing skills. Selecting books and materials; engaging children in shared literary experiences, promoting skills and early experiments with print. Issues and strategies for second language learners. CSU
Offered on occasion

CDEV 85. Relationship-based Infant/Toddler Care (3)
Lec-52.5
Recommended Prep: ESL 182 or placement in ESL 184
Principles and practices of relationship-based care that support infant/toddler social-emotional development, learning during routine care and play activities, and development of language and communication. The parent-provider partnership is explored as key to understanding children and keeping them connected to the family and culture. CSU

CDEV 87. Promoting Social and Emotional Competence in Young Children (3)
Lec-52.5
Recommended Prep: ESL 182 or placement in ESL 184
Course topics will include strategies to promote children's social and emotional development and tools to address challenging behaviors and mental health needs. Course includes interrelated levels of practice in developing positive relationships with children, families and colleagues; creating supportive environments; utilizing social and emotional teaching strategies to provide intensive, individualized interventions. CSU
This course meets requirements for the Certificate of Achievement in Child Development: Professional Development and Advocacy.
Offered on occasion

CDEV 89. Early Childhood Administration Practicum (3)
Lec-52.5
Prereq: Completion of or concurrent enrollment in: CDEV 90 or CDEV 91
Advanced content for administrators and directors in effective administration, supervision and management of early childhood programs. Emphasis will be on financial management, governance, data-based decision making, and human relations. CSU

CDEV 90. Early Childhood Administration I (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A course focusing on the business and administrative aspects of operating early childhood education programs. Explores regulatory requirements including legal issues to analyze impact on center operations and specific management tools used to reflect upon about current business practices. CSU

CDEV 91. Early Childhood Administration II (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Administration, supervision and management of early childhood programs. Emphasis on human relations including staffing; family involvement; and developing communication guidelines for director/teacher, teacher/teacher, teacher/family and managing the daily operations of program. CSU

CDEV 92. Health, Safety and Nutrition in Early Childhood Programs (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Introduction to laws, regulations, standards, curriculum, policies, and procedures related to health, safety, and nutrition for all children. Components that ensure physical health, mental health, and safety for children and staff and the importance of collaboration with families and health professionals. Focus on integrating concepts into planning and program development. CSU
C-ID ECE 220

CDEV 93. Cultural Diversity in Early Childhood Education (3)
Lec-52.5, field trips
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Theoretical and practical implications of social identity, oppression and privilege for young children, families, programs, and teaching. Strategies for culturally and linguistically appropriate anti-bias approaches supporting all children in a diverse society. Self-examination and reflection on social identity, stereotypes and bias, social and educational access, media, and schooling. CSU
C-ID ECE 230

CDEV 95. School-Age Child Care Curriculum (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Understanding child development and family concerns essential in planning a developmentally appropriate school-age child care program. Explores relationships with children and families, age appropriate activities, positive guidance and planning the environment. CSU

CDEV 96. Understanding Children with Challenging Behaviors (3)
Lec-52.5 P/NP available
Prereq: CDEV 53
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Overview of issues related to children who exhibit behaviors that are challenging for adults in early childhood programs. Explores current brain research, theories in preventing challenging behaviors, sensory-motor intervention approaches, the importance of nurturing relationships and reflective practices. CSU
Offered on occasion

CDEV 97. School Age Growth & Development (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Human growth and development, ages five to twelve, and early and mid-adolescence, covering physical, cognitive, language, and social development. Developmental theories and issues affecting the lives of school age children in contemporary society. Required for the Certificate of Achievement in Child Development: Youth Worker and School Age Childcare. CSU

CDEV 98. Sensory Motor Development and Activities (3)
Lec-52.5, field trips
Prereq: Completion of or concurrent enrollment in: CDEV 53
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Overview of sensory motor development in young children; developmentally appropriate sensory motor activities and experiences; and the relationship of physical, cognitive, and social-emotional development to brain development in young children. CSU
Offered on occasion

CDEV 99. Sensory Processing Disorder in Children (1)
Lec-17.5
Recommended Prep: CDEV 53
Overview of issues related to Sensory Processing Disorder (SPD) in young children, with an emphasis on early identification and intervention strategies. The class will explore subtypes of SPD, sensory integration interventions and overlapping patterns with ADHD and autistic-spectrum disorders. CSU
Offered on occasion

CDEV 100. Violence and Its Impact on Children and Their Families (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An exploration of violence and its impact on the physical and psycho

logical well-being of children, families, early childhood teachers, and others. Emphasis is on early relationships and how they affect a child's worldview, plus practitioner self-care and multi-cultural awareness. CSU
Offered Fall semesters

CDEV 101. Introduction to Violence Intervention (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
An overview of violence prevention and intervention strategies found in best practice early childhood programs. This course focuses on developing professional and interpersonal skills of educators to respond to diverse children and their families who experience high levels of stress and chronic violence that compromise development and can result in the need for trauma care. CSU
Offered Spring semesters

CDEV 105. Adult Supervision and Mentoring in Early Care and Education (2)
Lec-35 P/NP available
Prereq: CDEV 90
Methods and principles of supervising adults in early childhood classrooms. Emphasis on the role of the experienced teacher who functions as the supervisor to center staff. Explores the head teachers' relationship to new teachers while simultaneously addressing the needs of children, parents, and other staff. CSU
Offered Spring semesters

CDEV 106. Exploring Science in Early Childhood Education (3)
Lec-52.5
Recommended Prep: CDEV 66
Early childhood teachers will explore materials and teaching strategies that support young children's interest in and understanding of science and the natural world. CSU
Offered Spring semesters

CDEV 107. Introduction to Child Nutrition (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
The course provides an overview of child nutrition issues, with an emphasis on practical skills and approaches to influence positive eating behaviors that promote optimal health and nutrition. Topics include basic nutrition principles, the feeding relationship, breastfeeding & child nutrition, planning healthy meals & snacks, food safety, childhood obesity, physical activity, nutrition education, child nutrition programs & food assistance resources. CSU
Cross-listed with HLTH 177 (formerly HLTH 107)

CDEV 108. Communicating with Families (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Importance of communication in child care and school settings. Family needs, differences, and expectations are stressed. Special attention paid to cultural, racial, economic, gender, and family structure differences and their various impacts on communication strategies. CSU

CDEV 114. Work Experience in Child Development (1-3)
Work-60-225 P/NP only
Prereq: Approval of the Child Development Department
Repeat: Repeated up to 6.00 Units
This course will provide on or off-campus experience in early childhood/child development- ECE, K -12 classroom, after-school or youth work settings. The focus will be on providing practical experience in the methods and principles of teaching in early childhood and school-age classrooms. Emphasis will be placed on the role of the teacher in the field experience setting. One unit of credit is earned for each 60 hours of unpaid, or 75 hours of paid work. CSU
Students must obtain required TB testing, and other clearances (criminal record, immunizations) depending on site requirements. Approval of Child Development Work Experience Coordinator. To be made at first meeting after course registration and enrollment.

CDEV 120. Special Education TK-12 (3)
Lec-52.5, field trips
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Introduction to basic issues in special education TK (transitional kindergarten-12 including legal rights of children with disabilities and their families, Individual Educational Plans (IEPs), disability sensitivity and awareness, inclusion, collaboration strategies and community resources. CSU
Offered Fall semesters

CDEV 121. Children with ADHD (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Explore behaviors, strengths, and needs of children with ADHD and develop teaching strategies that support them and their families. Conventional and alternative approaches to diagnosis and treatment as well as prevention and inclusion strategies will be explored. CSU

CDEV 122. Social Emotional Differences K-12 (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Explore the definition and etiology of social emotional differences (also known as social emotional disturbance or SED), disproportionality and strategies to address it, prevention/intervention strategies for supporting children diagnosed with SED, and strategies for teacher self-awareness and reflection. CSU

CDEV 123. Learning Disabilities (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Explore specific learning disabilities including dyslexia, dyscalculia, dysgraphia, and non-verbal learning disability. Identify multi-sensory strategies for teaching children with learning disabilities; identify student strengths and use them to address weaknesses; learn how to create an inclusive learning environment; and become aware of community resources. CSU

CDEV 124. Individualized Education Programs (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Learn about Individualized Education Programs (IEPs) and Individualized Family Service Plans (IFSPs) for children with special needs, including planning IEP/IFSP meetings, setting goals and objectives, writing the IEP plan, legal rights of children with disabilities, and the importance of working collaboratively with multidisciplinary teams including culturally diverse families, advocates, general

education teachers and support personal to meet the social and academic success of each student. CSU
Offered on occasion

CDEV 125. Children's Emotional Development (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Learn about emotional development of young children, and using empathy and brain science to understand and solve children's behavioral challenges through connection, responsiveness, co-regulation and tools for understanding the roots of behavioral responses to the environment. CSU

CDEV 150. Orientation to TK-12 Education (3)
Lec-52.5, field trips
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
An overview of TK-12 teaching from multicultural perspectives including the history of US public education, inequities in the field, actions to address inequities, current trends in the field, philosophies of teaching, and teaching strategies. UC/CSU

Noncredit Courses:

Infancy and Early Childhood

CDEV 8000. Careers in Teaching in CA (3-6 hrs)
An overview of teaching opportunities, requirements and certifications in California in a range of school settings. Career opportunities and labor market demand will be covered. Credentialing, permitting and certifications to be defined. ECE, Transitional Kindergarten, K-12 (elementary, middle and high school) and community college teaching requirements will be reviewed.

CDEV 8002. Parents and Infants (45 hrs)
Informal lecture and discussion on infant development during the first seven months of life and on issues of concern to new parents. Topics include characteristics of normal infant development, daily routines and feeding practices, and impact of the infant on the family.

CDEV 8003. Infant Development (45 hrs)
Informal discussion on the growth and development of infants 8-14 months in an enriched play environment. Topics include physical/sensory-motor, social-emotional, cognitive and language development; influence of parenting styles; family life; and the infant's impact on the family.

CDEV 8004. Postpartum Doula Training (18 hrs)
An introduction to the practice of postpartum doulas, providing support for newborns and new parents at home. Topics include birth recovery, bonding, infant soothing, basic newborn care, infant feeding and giving culturally appropriate care to support the emotional and physical development of the newborn and the family. Building a practice and doula self care are incorporated to support practitioners.

Preschool and School-Age Children

CDEV 8100. Child Observation (54 hrs)
An exploration of child growth and development through observation and interaction with children 15 months through kindergarten age: child-rearing practices; effective caregivers; health, safety and nutrition; decision-making in family life; utilization of community resources.

CDEV 8101. The Child Development Lab School (54 hrs)
Focused study of child growth and development and family resources utilizing laboratory child development facilities. Practice in utilizing teaching techniques while interacting with young children 18 months to 5 years old for caregivers whose children are enrolled in the center and students who are completing field experience hours. Educational opportunities and community service resource information provided.

CDEV 8104. Parenting Participating Class (270-306 hrs)
An exploration of early childhood development with an emphasis on parent/child relationships, community resources and parent/child communication. Discussion of the developmental needs of children 2-5 years. Parents attend 5-17 hours per week.

CDEV 8117. Positive Parenting (54 hrs)
Study of the role of parents/guardians in the healthy development of children from birth through adolescence. Emphasis on building positive relationships with children in the areas of bonding, attachment, self esteem, family dynamics, age-appropriate expectations and the importance of positive communications. Fulfills court-mandated parent education requirements.

Parenting

CDEV 8202. Foster Parenting and Resource Families (18 hrs)
Exploration of the role of the foster parent and resource families. Emphasis placed on human development from birth through adolescence. Topics include separation and grieving; drug and sexual education for adolescents; the roles of foster parents and biological parents; community resources including the agency and placement worker. Fulfills requirements of the California Community FKCE Licensing mandated in-service curriculum.

CDEV 8203. Overview of Growth and Development: Birth through Age 10 with an Emphasis on Out-of-Home Placement (12-18 hrs)
An exploration of child growth and development from birth through age 10 with an emphasis on the impact of out-of-home placement on the physical, cognitive, and psychosocial domains.

CDEV 8204. Overview of Growth and Development: Ages 10-18 with an Emphasis on Out-of-Home Placement (12-18 hrs)
An exploration of child growth and development ages 10-18 with an emphasis on the impact of out-of-home placement on the physical, cognitive, and psycho-social domains.

CDEV 8205. Foster/Resource Families: Working with Agencies and Community Resources (12-18 hrs)
An overview of the processes and procedures involved in the care of children in out-of-home placement. Topics include communicating with social workers, advocating for children, and navigating the special education system.

CDEV 8206. Parenting in the Business Community (54 hrs)
General principles of human development, birth through adolescence. Emphasis on issues for working parents, family dynamics, and community resources for child care. (Classes may be available at the college or in community or workplace settings).
Offered on occasion

CDEV 8213. Working with Youth in Group Settings (9-18 hrs)
This course presents an overview of preadolescent and adolescent growth, development, communication, learning, and behavior for caregivers in group home settings. It includes educational special

needs support, communication strategies, and independent living preparation.

CDEV 8506. Preparing Youth for Independent Living/Skills for Resource Families (6-12 hrs)
Explores the programs and resources available to youth in out-of-home placement as they transition to living independently. Strategies and activities for Resource Families and group home staff will be explored.

CDEV 8507. Becoming a Resource Family (6-12 hrs)
Explores the basics of becoming a resource/foster family, what is involved in the process, and how that transition can impact the family. It is not a substitute for the required pre-licensing training offered by agencies and counties.

CDEV 8508. Parenting Basics: Birth to Two Years (12-24 hrs)
Informal lecture and discussion on Child Development during the first two years of life and on issues of concern to new parents. Course will cover characteristics of typical infant and child development, daily routines and feeding practices, and impact of the child on the family.

CDEV 8509. Parenting Basics 3-5 years (12-24 hrs)
Informal lecture and discussion on child development ages 3-5 years and on issues of concern to parents. Course will cover characteristics of typical child development and behavior, keeping children healthy, and an overview of care and education programs for preschool aged children.

CDEV 8510. Parenting Basics 5-10 years (12-24 hrs)
Informal lecture and discussion on child development ages 5-10 years and on issues of concern to parents. Course will cover characteristics of typical child development and behavior, keeping children healthy, and an overview of care and education programs for school aged children.

CDEV 8511. Parenting Basics 10-14 years (12-24 hrs)
Informal lecture and discussion on child development ages 10-14 years and on issues of concern to parents. Course will cover characteristics of typical child and preadolescent development and behavior, keeping children healthy, and an overview of care and education programs for school aged children.

Chinese

Office: Art 202
Phone Number: (415) 239-3223
Web Site: *www.ccsf.edu/worl*

Announcement of Curricula

Chinese (Mandarin) Major (AA)

Program Information: The Chinese instructional program covers beginning to intermediate level written and oral communication in Chinese. It also helps students gain knowledge of Chinese culture throughout the world. The program is designed to meet transfer goals as well as personal development and career growth. Students must complete the curriculum with final grades of C or higher in their major preparation. The minimum time for completion of this certificate is four semesters. Completion time will vary based on student preparation and number of units or classes completed per semester."

Degree Curriculum: The Degree Curriculum in Chinese is a two-year course of study designed to build a strong language foundation as well as expose students to Chinese cultural content and some literature. Students who complete the curriculum are better prepared to transfer to the CSU and UC systems as well as other universities with the intent of majoring or minoring in Chinese.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret authentic input and communicate in spoken Chinese using a range of vocabulary, language functions, and sentence structures at an intermediate level.
- Respond to authentic materials and current media at an intermediate level of proficiency in reading and writing in Chinese to perform successfully in upper division work.
- Analyze and synthesize aspects of geography and cultural differences in various parts of the Chinese-Speaking world.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Chinese (Mandarin)

Course . . . . . Units

18 total units -- either Option 1 (Chinese Language Learners) or Option 2 (Native Speakers)

OPTION 1: Chinese Language Learners

Choose 15 units from the following

CHIN 2 Continuation of Elementary Chinese 5.0
or CHIN 2A Continuation of Elementary Chinese 3.0
CHIN 2B Continuation of Elementary Chinese 3.0
CHIN 3 Intermediate Chinese. 5.0
or CHIN 3A Intermediate Chinese 3.0
and CHIN 3B Intermediate Chinese 3.0
CHIN 4 Continuation of Intermediate Chinese 5.0
or CHIN 4A Continuation of Intermediate Chinese 3.0
and CHIN 4B Continuation of Intermediate Chinese 3.0
CHIN 1 Elementary Chinese 5.0
CHIN 1B Elementary Chinese. 3.0

Choose 3 units from the following courses or any course not used from the list above:

CHIN 12B Continuation of Beginning Conversational Mandarin 3.0
CHIN 12C Intermediate Conversational Mandarin 3.0
CHIN 30A Mid-Intermediate Chinese. 3.0
CHIN 30B Continuation of Mid-Intermediate Chinese 3.0

OPTION 2: Native Speakers:

Required

CHIN 31A Pre-Advanced Mandarin Chinese for BilingualStudents 3.0
CHIN 31B Continuation of Pre-Advanced MandarinChinese for Bilinguals 3.0

Choose 12 units from the following

CHIN 14A Beginning Conversational Mandarin for Speakers of Other Chinese Dialects. 3.0

CHIN 14B Conversational Mandarin for Other Dialect Speakers 3.0
CHIN 14C Advanced Conversational Mandarin for Speakers of Other Chinese Dialects. 3.0
CHIN 32 Chinese Language and Culture. 3.0
CHIN 33 Chinese Culture for Heritage Learners 3.0
CHIN 38 Translation Foundation in Chinese 3.0

Total: 18.0

Chinese (Mandarin) Certificate

The Certificate of Achievement in Chinese (Mandarin) provides students, prospective employers, and others with documented evidence of persistence and academic achievement in Mandarin Chinese at an intermediate level.

Note that CHIN 2A + 2B = CHIN 2; CHIN 3A + 3B = CHIN 3; CHIN 4A + 4B = CHIN 4

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret the main points of standard spoken and written Chinese relating to everyday matters.
- Communicate in spoken Mandarin Chinese using a range of vocabulary, language functions, and sentence structures.
- Compare and analyze aspects of Chinese culture and society.
- Write simple connected text using a range of intermediate Chinese vocabulary, grammar, and sentence structures.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Chinese (Mandarin)

Course . . . . . Units
Choose at least 5 units from the following
CHIN 3 Intermediate Chinese. 5.0
or CHIN 3A Intermediate Chinese 3.0
and CHIN 3B Intermediate Chinese 3.0

Choose at least 11 units from the following
CHIN 2 Continuation of Elementary Chinese 5.0
or CHIN 2A Continuation of Elementary Chinese. . . . 3.0
and CHIN 2B Continuation of Elementary Chinese 3.0
CHIN 4 Continuation of Intermediate Chinese 5.0
or CHIN 14A Beginning Conversational Mandarin for Speakers of Other Chinese Dialects. 3.0
and CHIN 4B Continuation of Intermediate Chinese . . 3.0
CHIN 12B Continuation of Beginning Conversational Mandarin 3.0
CHIN 12C Intermediate Conversational Mandarin 3.0
CHIN 14B Conversational Mandarin for Other Dialect Speakers 3.0
CHIN 14C Advanced Conversational Mandarin for Speakers of Other Chinese Dialects. 3.0
CHIN 30A Mid-Intermediate Chinese. 3.0
CHIN 30B Continuation of Mid-Intermediate Chinese . . 3.0
CHIN 31A Pre-Advanced Mandarin Chinese for BilingualStudents 3.0
CHIN 31B Continuation of Pre-Advanced MandarinChinese for Bilinguals 3.0
CHIN 32 Chinese Language and Culture. 3.0
CHIN 38 Translation Foundation in Chinese 3.0

Total: . . . . . 16.0 – 17.0

Conversational Cantonese Certificate

The Certificate of Achievement in Conversational Cantonese provides students, prospective employers, and others with documented evidence of persistence and academic achievement in Conversational Cantonese at an intermediate level.

Learning Outcomes

Upon completion of this program, students will be able to:

- Communicate in spoken Cantonese using a range of vocabulary, language functions, and sentence structures.
- Interpret the main points of standard Cantonese relating to everyday matters.
- Analyze aspects of Chinese culture and society.
- Apply a range of intermediate vocabulary, grammar, and syntax to communicate in oral and written Cantonese.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Conversational Cantonese

Course . . . . . Units
Choose 9 units from the following
CHIN 10A Beginning Conversational Cantonese. 3.0
CHIN 10B Continuation of Beginning Conversational Cantonese. 3.0
CHIN 10C Intermediate Conversational Cantonese 3.0
CHIN 10D Continuation of Intermediate Conversational Cantonese. 3.0

Total: 9.0

Announcement of Courses

Students of beginning Mandarin are directed to consider CHIN 1, 1A, 12A, 14A. A placement test in Chinese is available for guidance in selecting the appropriate course. For information, call 239-3223.

Credit, Degree Applicable Courses:

CHIN 1. Elementary Chinese (5)
Lec-87.5 P/NP available
Beginner's course in grammar, composition, and reading. Practice in speaking and understanding Mandarin. UC/CSU

CHIN 1A. Elementary Chinese (3)
Lec-52.5 P/NP available
Beginner's courses. (Especially recommended for students starting the study of Chinese for the first time.) Grammar, composition, and reading. Practice in speaking and understanding Mandarin. UC/CSU
CHIN 1A+1B = CHIN 1

CHIN 1B. Elementary Chinese (3)
Lec-52.5 P/NP available
Prereq: CHIN 1A or demonstration of CHIN 1A exit skills.
Beginner's course, especially recommended for students starting the study of Chinese for the first time. Grammar, composition, and reading. Practice in speaking and understanding Mandarin. UC/CSU
CHIN 1A+1B = CHIN 1

CHIN 2. Continuation of Elementary Chinese (5)
Lec-87.5 P/NP available
Prereq: CHIN 1 or 1B or demonstration of CHIN 1/1B exit skills.
Second semester course in Mandarin grammar, composition, and reading. Practice in speaking and understanding Mandarin Chinese language and culture. UC/CSU

CHIN 2A. Continuation of Elementary Chinese (3)
Lec-52.5 P/NP available
Prereq: CHIN 1 or 1B or demonstration of CHIN 1/1B exit skills.
Continuation of the study of grammar, composition, and reading. Practice in speaking and understanding Mandarin. UC/CSU
CHIN 2A+2B = CHIN 2

CHIN 2B. Continuation of Elementary Chinese (3)
Lec-52.5 P/NP available
Prereq: CHIN 2A or demonstration of CHIN 2A exit skills.
Continuation of the study of grammar, composition, and reading. Practice in speaking and understanding Mandarin. UC/CSU
CHIN 2A+2B = CHIN 2

CHIN 3. Intermediate Chinese (5)
Lec-87.5 P/NP available
Prereq: CHIN 2 or CHIN 2B
Grammar, composition and reading. Practice in speaking and understanding Mandarin. Understanding of Chinese culture. Not for speakers of Mandarin. UC/CSU

CHIN 3A. Intermediate Chinese (3)
Lec-52.5 P/NP available
Prereq: CHIN 2 or CHIN 2B
Grammar, composition and reading. Practice in speaking and understanding Mandarin. Understanding of Chinese culture. Not for speakers of Mandarin. UC/CSU
CHIN 3A+3B = CHIN 3

CHIN 3B. Intermediate Chinese (3)
Lec-52.5 P/NP available
Prereq: CHIN 3A
Grammar, composition and reading. Practice in speaking and understanding Mandarin. Understanding of Chinese culture. Not for speakers of Mandarin. UC/CSU
CHIN 3A+3B = CHIN 3

CHIN 4. Continuation of Intermediate Chinese (5)
Lec-87.5 P/NP available
Prereq: CHIN 3 or CHIN 3B or demonstration of CHIN 3 or 3B exit skills
Continuation of intermediate grammar, composition, and reading. Practice in speaking and understanding Mandarin. Understanding of Chinese culture. UC/CSU
Offered on occasion

CHIN 4A. Continuation of Intermediate Chinese (3)
Lec-52.5 P/NP available
Prereq: CHIN 3 or CHIN 3B or demonstration of CHIN 3 or CHIN 3B exit skills
Chinese 4A is the first half of the Chinese 4 course. Intermediate grammar, composition, and reading. Practice in speaking and understanding Mandarin. Understanding of Chinese culture. UC/CSU
Offered on occasion

CHIN 4B. Continuation of Intermediate Chinese (3)
Lec-52.5 P/NP available
Prereq: CHIN 4A or demonstration of CHIN 4A exit skills
Chinese 4B is the second half of the Chinese 4 course. It is the continuation of intermediate grammar, composition, and reading. Practice in speaking and understanding Mandarin. Understanding of Chinese culture. UC/CSU
Offered on occasion

CHIN 10A. Beginning Conversational Cantonese (3)
Lec-52.5 P/NP available
Beginner's course in Cantonese. Extensive oral training in Cantonese. Emphasis on practical vocabulary and idiom rather than on formal grammar and literature. Students will learn tone and markings rather than Chinese characters. CSU
Recommended for all beginning students. Not recommended for native speakers of Cantonese.
Offered Fall semesters

CHIN 10B. Continuation of Beginning Conversational Cantonese (3)
Lec-52.5 P/NP available
Recommended Prep: CHIN 10A or demonstration of exit skills
Second semester course in Cantonese. Continuation of extensive oral training in Cantonese. Emphasis on practical vocabulary and idiom rather than on formal grammar and literature. Students will learn tone and markings rather than Chinese characters. CSU
Not recommended for native speakers of Cantonese.
Offered Spring semesters

CHIN 10C. Intermediate Conversational Cantonese (3)
Lec-52.5 P/NP available
Recommended Prep: CHIN 10B or demonstration of exit skills
Third semester course in Cantonese. Continuation of extensive oral training in Cantonese. Designed for students who wish to continue acquiring more advanced skills of the spoken language with a minimum of formal grammar. Students will learn tone and markings rather than Chinese characters. CSU
Not recommended for native speakers of Cantonese.
Offered Fall semesters

CHIN 10D. Continuation of Intermediate Conversational Cantonese (3)
Lec-52.5, Lab-17.5 P/NP available
Recommended Prep: CHIN 10C or demonstration of exit skills
Fourth semester course in Cantonese. Continuation of extensive oral training in Cantonese. Designed for students who wish to continue acquiring more advanced skills of the standard spoken language with a minimum of formal grammar. Students should have command of tone and markings, rather than Chinese characters. CSU
Formerly Intermediate Cantonese
Offered Spring semesters

CHIN 12A. Beginning Conversational Mandarin (3)
Lec-52.5 P/NP available
Beginner's course in Mandarin. Extensive oral training in Mandarin. Emphasis on practical vocabulary, pronunciation, and idiomatic usage. Designed for students who wish to acquire basic skills of spoken Mandarin rather than reading and writing in Chinese characters. CSU
Not recommended for native speakers of Mandarin nor for speakers of other Chinese languages. These students should consider CHIN 14A, Beginning Conversational Mandarin for Speakers of Other Chinese Dialects.

CHIN 12B. Continuation of Beginning Conversational Mandarin (3)
Lec-52.5 P/NP available
Recommended Prep: CHIN 12A or CHIN 1A or demonstration of CHIN 12A or 1A exit skills
Second semester course. Continuation of beginner's course in Mandarin. Extensive oral training in Mandarin. Emphasis on practical vocabulary, pronunciation, and idiomatic usage. Designed for students wishing to acquire basic skills of spoken Mandarin rather than reading and writing in Chinese characters. CSU
Not recommended for native speakers of Mandarin nor for speakers of other Chinese languages. These students should consider CHIN 14B, Conversational Mandarin for Speakers Other Dialect Speakers.

CHIN 12C. Intermediate Conversational Mandarin (3)
Lec-52.5 P/NP available
Recommended Prep: CHIN 12B or CHIN 1 or CHIN 1B or demonstration of exit skills
Third semester course. Continuation of extensive oral training in Mandarin. Emphasis on practical vocabulary, pronunciation and idiomatic usage. Designed for students who wish to acquire more advanced skills of spoken Mandarin with a minimum of formal grammar rather than reading and writing in Chinese characters. CSU
Recommended for all students with limited background in Chinese. Not recommended for native speakers of Mandarin.
Offered on occasion

CHIN 14A. Beginning Conversational Mandarin for Speakers of Other Chinese Dialects (3)
Lec-52.5 P/NP available
Recommended Prep: Oral fluency in at least one Chinese dialect other than Mandarin.
The first third of the beginner's course in Mandarin for students who speak another dialect of Chinese. Emphasis on pronunciation and fundamental vocabulary, using Pinyin. Designed for students who wish to acquire basic skills of spoken Mandarin rather than formal grammar and literature. CSU
Recommended for all beginning students of Mandarin who can speak at least one Chinese dialect and for students who have some knowledge of Chinese. Not recommended for native speakers of Mandarin.

CHIN 14B. Conversational Mandarin for Other Dialect Speakers (3)
Lec-52.5 P/NP available
Recommended Prep: CHIN 14A or demonstration of exit skills
Continuation of oral training in Mandarin. Emphasis on practical vocabulary, pronunciation and idiomatic usage. Designed for students who wish to acquire basic skills of spoken Mandarin rather than formal grammar and literature. CSU
Requires an additional 1 hour.

CHIN 14C. Advanced Conversational Mandarin for Speakers of Other Chinese Dialects (3)
Lec-52.5 P/NP available
Recommended Prep: CHIN 14B or demonstration of CHIN 14B exit skills
Extensive oral training in advanced Mandarin. Emphasis on advanced expressions and idiomatic usage. Designed for students who wish to continue acquiring skills of spoken Mandarin at an advanced level rather than formal grammar and literature. CSU
Recommended for all students who can speak at least one Chinese dialect or students who have some knowledge of Chinese. Not recommended for native speakers of Mandarin.
May not be offered every semester.
Offered on occasion

CHIN 30A. Mid-Intermediate Chinese (3)
Lec-52.5 P/NP available
Recommended Prep: CHIN 4 or demonstration of oral fluency in a Chinese dialect (including standard Mandarin) and knowledge of 450 Chinese characters
Mid-intermediate training in written and spoken Mandarin with emphasis on reading, speaking, and composition. Linguistic ability in both English and Chinese are used as a basis for increasing vocabulary and enhancing reading and writing skills through short stories, poems, and compositions. UC/CSU
Offered Fall semesters

CHIN 30B. Continuation of Mid-Intermediate Chinese (3)
Lec-52.5 P/NP available
Prereq: CHIN 30A or demonstration of exit skills
Continued mid-intermediate training in written and spoken Mandarin with emphasis on reading, speaking and composition. Increased linguistic ability in both English and Chinese are used as a basis for increasing vocabulary and enhancing reading and writing skills through short stories, poems, and compositions. UC/CSU
Offered Spring semesters

CHIN 31A. Pre-Advanced Mandarin Chinese for BilingualStudents (3)
Lec-52.5 P/NP available
Recommended Prep: Oral fluency in at least one Chinese dialect other than standard Mandarin and knowledge of approximately 600-800 Chinese characters.
Intensive training in written and spoken Mandarin with emphasis on reading, speaking, and composition. Linguistic ability in both English and Chinese are used as a basis for increasing vocabulary and enhancing reading and writing skills through short stories, poems, essays and compositions. Close to pre-advanced training in written and spoken Mandarin. UC/CSU
Chinese 31A is not a prerequisite for Chinese 31B. These courses may be taken non-sequentially. These courses are designed for bilingual students who are effective in oral communication in at least one Chinese dialect other than standard Mandarin, but need formal training in both receptive and productive skills in Mandarin.
Offered Fall semesters

CHIN 31B. Continuation of Pre-Advanced MandarinChinese for Bilinguals (3)
Lec-52.5 P/NP available
Recommended Prep: Oral fluency in at least one Chinese dialect other than standard Mandarin and knowledge of approximately 600-800 Chinese characters.
Intensive training in written and spoken Mandarin with emphasis on reading, speaking, and composition. Increased linguistic ability in both English and Chinese are used as a basis for increasing vocabulary and enhancing reading and writing skills through short stories, poems, essays and compositions. Pre-advanced training in written and spoken Mandarin. UC/CSU
Chinese 31A is not a prerequisite for Chinese 31B. These courses may be taken non-sequentially. This course is designed for bilingual students who are effective in oral communication in at least one Chinese dialect other than standard

Mandarin, but need formal training in both recptive and productive skills in Mandarin.
Offered Spring semesters

CHIN 32. Chinese Language and Culture (3)
Lec-52.5 P/NP available
Prereq: CHIN 14A or CHIN 4 or CHIN 4A or demonstration of exit skills
Recommended Prep: Oral fluency in a Chinese regional language including Mandarin
An intermediate-level course providing substantial review of language structures and in-depth discussions on various aspects of Chinese culture and customs. UC/CSU
The course number is not an indication of the course content level. CHIN 31A is more advanced than this course.
Offered on occasion

CHIN 33. Chinese Culture for Heritage Learners (3)
Lec-52.5 P/NP available
Recommended Prep: CHIN 14C or CHIN 31A or CHIN 31B or demonstration of CHIN 14C or CHIN 31A or CHIN 31B exit skills or oral fluency in at least one Chinese dialect including standard Mandarin
A consideration of the humanistic tradition of China and the major achievements of Chinese culture as reflected in language, literature, art, craft and daily life. Taught in Chinese. UC/CSU
Offered on occasion

CHIN 38. Translation Foundation in Chinese (3)
Lec-52.5 P/NP available
Prereq: CHIN 4 or CHIN 14A or CHIN 32 or CHIN 33 or demonstration of exit skills
Recommended Prep: Oral fluency in at least one Chinese regional dialect including Mandarin and high intermediate reading comprehension and writing skills in Chinese.
Focused training in written translation of English to Chinese and vice versa through comparison and contrast of English and Chinese grammar and authentic sentences and short passages guided by basic written translation principals. CSU
Offered on occasion

CHIN 39. Major Achievements of Chinese Thought and Culture (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A consideration of the humanistic tradition of China and the major achievements of Chinese culture as reflected in language, literature, art, religion and daily life. UC/CSU
No knowledge of Chinese required. Not recommended for students who are enrolled in or who have completed CHIN 49.
Offered on occasion

Cinema

Office: Cloud Hall 126
Phone Number: (415) 239-3651
Web Site: *www.ccsf.edu/cinema*

Announcement of Curricula

General Information

The Cinema Department is ideally situated in the San Francisco Bay Area, which is home to one of the country's most vibrant film cultures and traditions. Our program is unique in the breadth of its course offerings, the quality of its instruction, and the accessibility of its equipment. As part of one of the largest, most diverse community colleges in the country, the Cinema Department is an exciting and rewarding place to study film.

The Cinema department is equipped to fulfill a wide range of professionaland academic goals. Production and studies classes include, but are not limited to: cinematography and lighting, screenwriting, directing, producing, editing, sound for motion picture, feature and documentary production, film history, aesthetics and genre/auteur studies.

Students work with evolving technologies and state of the art equipment that emphasizes hands-on training and portfolio production. Film studies courses provide a historical view of film in our culture through the examination of aesthetic and technical changes in the medium. The knowledge and experience acquired in the program will prepare students to pursue their goals in the motion picture industry or transfer to an institution of higher learning.

Our dedicated faculty and staff consist of award-winning filmmaking professionals who create an environment that encourages creativity, technical proficiency, and critical thinking.

Each year students in the Cinema Department produce CITY SHORTS, a high-profile film festival. This public event provides students an opportunity to showcase their work and celebrate with the community.

Career Opportunities

- Production Assistant
- Grip and Lighting Technician
- Camera Operator
- Film and Video Editor
- Motion Picture Director
- Producer
- Production Manager
- Screenwriter
- Sound Recordist
- Sound Mixer
- Festival Curator

Cinema Production Major (AS)

The Associate in Science Degree in Cinema Production is intended for students who are interested in pursuing a career in film production and/or preparing to continue in a production program at a 4-year institution. The curriculum focuses on the hands-on nature of the craft from pre-production to production and post, providing real-world skills such as cinematography, narrative conventions, working as part of a crew, post-production editing and sound design. Students who complete this degree are prepared for entry level positions in production, ranging in positions such as production assistant, camera operator, editing assistant, lighting technician, and assistant director.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply basic principles of film production and industry practice.
- Analyze different film forms and genres.
- Execute technical and aesthetic skills in celluloid and digital film production.
- Demonstrate storytelling skills for film.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

In the first semester, students may enroll concurrently in the following courses: CINE 24, 30, 60, and 75A.

Courses Required for the Major in Cinema Production

Course	Units
Required	
CINE 24 Basic Film Production	4.0
CINE 25 Narrative Filmmaking	3.0
CINE 54 Cinematography & Lighting	3.0
CINE 60 Sound for Motion Pictures I	3.0
Choose one of the following options	
CINE 57 Experimental Filmmaking	3.0
CINE 126 Documentary Filmmaking	3.0
CINE 131 Directing Motion Pictures	3.0
Choose two courses from the following	
CINE 30 Production Planning	3.0
CINE 56 Introduction to Digital Film Editing	4.0
CINE 61 Sound for Motion Pictures II	3.0
CINE 72 Nonfiction Scriptwriting	3.0
CINE 74 Advanced Cinematography And Lighting	3.0
CINE 75A Introduction to Screenwriting	3.0
CINE 75B Intermediate Screenwriting	3.0
CINE 75C Advanced Screenwriting	3.0
CINE 136 Special Effects	3.0
CINE 170 Film/Video Work Experience	2.0
Total:	**21.0 – 23.0**

Film Studies Major (AA)

The Film Studies major provides students with critical thinking skills and various perspectives on historical and contemporary media forms. The major focuses on close study of media in social, cultural, political, aesthetic, and technological contexts to promote the understanding of film as a crucial element of the global environment. The Film Studies AA also prepares students for transfer to upper division film/cinema programs at four-year colleges and universities.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply media literacy through critical, analytical, and argumentation skills and independent research.
- Analyze formal elements of film to critically assess the language of cinema.
- Evaluate the ways in which film is influenced and shaped by individuals, movements, institutions, and technologies.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is 4 semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Film Studies

Course	Units
Required	
CINE 18 American Cinema	3.0
CINE 20A International Film History (1880s-1930s)	3.0
CINE 20B International Film History (1930s-1960s)	3.0
CINE 21 Introduction to Film Studies	3.0
Choose one of the following courses	
CINE 19 Introduction to Documentary Film Studies	3.0
CINE 22 History of Documentary Film	3.0
CINE 23A Films of Alfred Hitchcock	3.0
CINE 23B Focus on Film Noir	3.0
CINE 23C Cult Cinema	3.0
Choose one of the following courses	
ASAM 30 Asian American Issues Through Film	3.0
ASIA 30 Manga and Anime	3.0
BCST 101 Media Literacy	3.0
BCST 103 Mass Media and Society	3.0
CINE 24 Basic Film Production	4.0
CMST 8 Rhetoric of Popular Culture	3.0
ENGL 61 Literature and Film	3.0
IDST 14 American Cultures in Literature and Film	3.0
LGBT 11 History of LGBTQ+ Film: Silent Era to 1969	3.0
LGBT 12 Contemporary LGBTQ Film	3.0
LGBT 75 LGBTQ+ Film: in the 1970s and 1980s	3.0
PHST 30 Philippine Society and Culture Through Film	3.0
WGST 10 Women and Film	3.0
Total:	**18.0 – 19.0**

Film, Television & Electronic Media Major (AS-T)*

* See Broadcast Elelctronic Media Arts section of the Catalog.

Cinema Foundations Certificate

This Certificate provides foundational elements of motion picture concepts, production and post-production. Upon completion students will have the essential tools to take back to their current or new employment, thrive in a 4-year program, obtain entry-level work in the field and/or execute their own independent projects.

Learning Outcomes

Upon completion of this program, students will be able to:

- Operate camera, lighting and sound equipment in accordance with industry standards.
- Utilize post-production techniques to produce narrative films with picture, sound and editing.
- Apply pre-production, production and post-production skills to film production workflow.

In the first semester CINE 24, 25 and 60 may be taken concurrently.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Cinema Foundations

Course	Units
Required courses:	
CINE 24 Basic Film Production	4.0
CINE 25 Narrative Filmmaking	3.0

CINE 54 Cinematography & Lighting 3.0
CINE 60 Sound for Motion Pictures I 3.0

Choose one of the following editing courses:
BCST 144A Video Editing Premiere Intro 4.0
CINE 56 Introduction to Digital Film Editing 4.0

Total: 17.0

Cinematography Certificate

The Cinematography certificate provides students with well-rounded technical skills in camera and lighting techniques and aesthetics grounded in film studies. The curriculum provides students with experience with advanced camera, grip and lighting gear as students learn to use these to tell stories and move viewers. Students who complete this certificate will be prepared for entry level positions in commercial and independent narrative, documentary, music video or corporate production as director/producers, cinematographers, gaffers, grips, set electricians and audio video technicians.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply cinematography fundamentals for film and video.
- Collaborate in a group to plan and execute a dramatic scene, functioning in the role of producer, director, director of photography and editor.
- Demonstrate expressive use of composition, lens choice, lighting and camera movement.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Cinematography

Course . . . . . Units

Required courses:
CINE 21 Introduction to Film Studies 3.0
CINE 24 Basic Film Production 4.0
CINE 25 Narrative Filmmaking 3.0
CINE 54 Cinematography & Lighting 3.0
CINE 56 Introduction to Digital Film Editing 4.0
CINE 74 Advanced Cinematography And Lighting. 3.0

Total: 20.0

Directing Certificate

The Directing Certificate provides a strong foundation in narrative filmmaking focusing on the role and responsibilities of the Director from creation of shooting scripts to optimizing collaborative skills with set crew and talent. Completion prepares students for upper division film work at a 4-year university, entry-level work in the field or applicable creative and professional assets to utilize in creative work environments.

With completion of this Certificate entry-level employment opportunities may include: Production Assistant, Script Reader/Development Assistant, Casting Director (Assistant), Choreographer Trainee, Assistant to the Director, Assistant Director Music Video Director, Assistant to the Producer, Production Design Intern/Assistant, Independent Filmmaker.

In the first semester CINE 24, 25, 30, 75A and TH A 154A can be taken concurrently. College-level English preparedness is strongly advised.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply knowledge of continuity, shooting styles, and editing methods to direct narrative films.
- Analyze crew roles and interpret results during the film production phase.
- Identify, analyze and solve performance issues through script analysis and establishing performance guidelines
- Apply technical and communication skills to work effectively on a film set
- Analyze and formulate shot lists to prepare a film for production.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Directing

Course . . . . . Units

Required
CINE 24 Basic Film Production 4.0
CINE 25 Narrative Filmmaking 3.0
CINE 30 Production Planning 3.0
CINE 54 Cinematography & Lighting 3.0
CINE 131 Directing Motion Pictures 3.0

Choose one of the following options
CINE 75A Introduction to Screenwriting 3.0
TH A 154A Beginning Acting For The Camera 4.0

Total: . . . . . 19.0 – 20.0

Film Studies Certificate

The Film Studies Certificate of Achievement provides students with critically thinking skills about the culture, aesthetics, and technology of film and media. The expansive curriculum of the certificate develops an understanding of media production as a global enterprise. The certificate prepares students for further study in the Film Studies AA major and transfer to upper division film/cinema programs at four-year colleges and universities.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply media literacy through critical, analytical, and argumentation skills, and independent research
- Analyze formal elements of film to critically assess the language of cinema
- Evaluate the ways in which film is influenced and shaped by individuals, movements, institutions, and technologies

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester. The majority of required courses for the certificate are offered online in the Spring, Summer, and Fall semesters.

Courses Required for the Certificate of Achievement in Film Studies

Course . . . . . Units

Required
CINE 20A International Film History (1880s-1930s) 3.0
CINE 20B International Film History (1930s-1960s) 3.0
CINE 21 Introduction to Film Studies 3.0

Choose 6 units from the following courses
CINE 18 American Cinema 3.0
CINE 19 Introduction to Documentary Film Studies . . . 3.0
CINE 22 History of Documentary Film. 3.0
CINE 23A Films of Alfred Hitchcock. 3.0
CINE 23B Focus on Film Noir 3.0
CINE 23C Cult Cinema 3.0

Choose 3 units from the following courses
ASAM 30 Asian American Issues Through Film 3.0
ASIA 15 Asian Societies and Cultures through Film 3.0
ASIA 30 Manga and Anime 3.0
BCST 101 Media Literacy 3.0
BCST 103 Mass Media and Society 3.0
CINE 24 Basic Film Production 4.0
CMST 8 Rhetoric of Popular Culture 3.0
ENGL 61 Literature and Film. 3.0
IDST 14 American Cultures in Literature and Film 3.0
LGBT 11 History of LGBTQ+ Film: Silent Era to 1969 . . . 3.0
LGBT 12 Contemporary LGBTQ Film 3.0
LGBT 75 LGBTQ+ Film: in the 1970s and 1980s. 3.0
PHST 30 Philippine Society and Culture Through Film 3.0
WGST 10 Women and Film 3.0

Total: . . . . . 18.0 – 19.0

Pre-Production/Producing Certificate

The Pre-Production/Producing certificate prepares students in the planning and the business of the production of motion pictures including inter-disciplinary instruction in Cinema production, pre-production and basic business offerings. The curriculum examines the narrative and provides real world skills such as evaluating cost, budgeting and marketing in order to complete a film or commercial project. Students who complete this certificate are prepared for entry level positions in a producer's office in positions such as Assistant Production Office Coordinator, Travel Coordinator, or Transportation Dispatcher.

Learning Outcomes

Upon completion of this program, students will be able to:

- Manage technical aspects of motion picture and video production.
- Analyze data to make responsible business decisions relevant to motion picture and video production.
- Use motion picture and video terms and concepts when communicating with client and crew.
- Propose solutions to ethical and social conflicts in a multicultural, team-oriented, rapidly changing environment.
- Act professionally and employ workforce protocol in collaboration, communication, and behavior in a film production environment

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Pre-Production/Producing
Course . . . . . Units
Required
CINE 24 Basic Film Production 4.0
CINE 25 Narrative Filmmaking 3.0
CINE 30 Production Planning 3.0
CINE 54 Cinematography & Lighting 3.0
CINE 170 Film/Video Work Experience . . . . . 1.0 – 2.0

Choose one of the following courses
CINE 126 Documentary Filmmaking. 3.0
CINE 131 Directing Motion Pictures 3.0

Choose one of the following business courses
GNBS 119 Introduction to Business 3.0
MRKT 122 Professional Selling 3.0
ENTR 101 Introduction to Entrepreneurship 3.0

Total: . . . . . 20.0 – 21.0

Screenwriting Certificate

The Screenwriting Certificate of Achievement provides students with skills in screenwriting for narrative films. The Certificate also includes a broad range of elective writing courses on subjects such as documentary film, broadcasting, radio, electronic media, and journalism. Students gain knowledge of professional formats, research methods, story elements, visual grammar, and aesthetic considerations in the course of developing writing skills specific to each format.

With a curriculum that spans writing for narrative film, applied courses in non-fiction film and electronic media, film history and film studies, and cross-departmental electives, the Certificate expands students' understanding of historical, cultural, and political contexts, and of informational, entertainment, and persuasive uses of media. It provides solid grounding for continued education at a 4-year university.

With completion of this Certificate, possible entry-level employment opportunities include: Broadcast Journalist, Video Writer/Producer for cultural, educational, informational, and commercial applications, Computer App Writer/Producer, Advertising Copywriter, Website Narrative Writer/Designer, Content Developer, Documentarian, Screenwriter, Independent Filmmaker, Game Writer/Designer, and Story Editor.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply basic principles of cinematic storytelling
- Evaluate historically and culturally significant film narratives
- Create original scripts and screenplays
- Revise the structure of original scripts and screenplays

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Screenwriting
Course . . . . . Units
Choose three courses from the following
CINE 75A Introduction to Screenwriting 3.0
CINE 75B Intermediate Screenwriting. 3.0
CINE 75C Advanced Screenwriting 3.0
BCST 110 Introduction to Writing for Electronic Media . . 3.0

Choose two courses from the following
CINE 18 American Cinema 3.0
CINE 19 Introduction to Documentary Film Studies . . . 3.0
CINE 20A International Film History (1880s-1930s) 3.0
CINE 20B International Film History (1930s-1960s) 3.0
CINE 20C International Film History (1960s-Present) . . 3.0
CINE 21 Introduction to Film Studies 3.0
CINE 22 History of Documentary Film. 3.0
CINE 23A Films of Alfred Hitchcock. 3.0
CINE 23B Focus on Film Noir 3.0

CINE 23C Cult Cinema 3.0
CINE 72 Nonfiction Scriptwriting 3.0

Choose one of the following options

ASAM 30 Asian American Issues Through Film 3.0
CINE 24 Basic Film Production 4.0
ENGL 35A Introduction to Writing Fiction 3.0
ENGL 35G Introduction to Creative Nonfiction Writing . . 3.0
ENGL 51 The Graphic Novel as Literature 3.0
ENGL 61 Literature and Film. 3.0
IDST 14 American Cultures in Literature and Film 3.0
LGBT 12 Contemporary LGBTQ Film 3.0
PHST 30 Philippine Society and Culture Through Film . . 3.0
TH A 171A Beginning Storytelling and Performance. . . . 3.0
VMD 166 Storytelling and Storyboarding 3.0

Total: . . . . . 18.0 – 19.0

Announcement of Courses

Credit, Degree Applicable Courses:

CINE 18. American Cinema (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introductory course that examines the history, development, and influence of Hollywood on American culture. The course also covers the evolution of cinematic form in the United States and its influence on international film style. UC/CSU

CINE 19. Introduction to Documentary Film Studies (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Exploration of the distinctive qualities of documentary film and how visual rhetoric shapes sociopolitical landscapes. Learn about how the aesthetics and structure of documentary films affect considerations of ethics, point of view, and persuasion. Topics of study include the voice of documentary, documentary modes, the influence of social media, cultural and national representation in documentary, and digital technology in the context of nonfiction. UC/CSU
Offered Fall semesters

CINE 20A. International Film History (1880s-1930s) (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines the international history of cinema from its late 19th century origins to the 1930s. The development of film technology, aesthetics, and genre are covered from 1880s France to the establishment of the Hollywood Studio System. Topics include early film technology, the development of Classic Hollywood style, French Impressionism, German Expressionism, Soviet Montage, early animation, the introduction of sound technology, and the establishment of the Hollywood studio system. UC/CSU
Offered every semester

CINE 20B. International Film History (1930s-1960s) (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines the international history of cinema from the 1930s to the 1960s. The development of film technology, aesthetics, and genre are covered from the 1930s studio systems of England, Japan, and India to the New Waves cinemas of France, Germany, and Eastern Europe in the 1960s. Topics include Socialist Realism, the development of the Classic Hollywood style, French Impressionism, German Expressionism, Soviet Montage, and the establishment of the Hollywood studio system. UC/CSU
Offered every semester

CINE 20C. International Film History (1960s-Present) (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines the international history of cinema from the 1960s to the present. The development of film technology, aesthetics, and genre are covered from the documentary and experimental films of the 1960s to the digital cinema of the current era. Topics include New Hollywood, political cinema of the 1960s and 1970s, continental and subcontinental cinemas post 1970, media conglomerates, and global film culture. CSU

CINE 21. Introduction to Film Studies (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introductory course that addresses the formal analysis of cinema. The course covers filmmaking techniques such as cinematography, editing, mise-en-scène, sound, lighting, acting, and narrative. UC/CSU

CINE 22. History of Documentary Film (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Examination of international history of documentary film from the 1890s to the present. The development of film technology, aesthetics, and genre are covered from proto-documentary films of the late 19th century to the digital cinema of the modern era. Topics include Soviet documentary, ethnographic film, cinema vérité, Direct Cinema, experimental documentary, and political nonfiction cinema. UC/CSU
Formerly The Documentary Tradition
Offered Spring semesters

CINE 23A. Films of Alfred Hitchcock (3)
Lec-52.5 P/NP available
Recommended Prep: CINE 18 or CINE 20A or CINE 20B or CINE 21
An auteur study of the films of Alfred Hitchcock as both the "master of suspense" and an artist of anxiety. We will explore Hitchcock's films in terms of their themes, stylistic tendencies and social/historical context. Hitchcock's enduring influence and place in film history is explored in depth. UC/CSU
Offered Fall semesters

CINE 23B. Focus on Film Noir (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Study the enduring appeal and social/political commentary of film noir's dark shadows, corruption, seductive femme fatales, alienated antiheroes, mid-century psychological struggles, and rain-slicked streets, often adapted from pulp novels and hard-boiled crime fiction. UC/CSU
Offered Spring semesters

CINE 23C. Cult Cinema (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Study the history and development of cult films and the integral role cannabis and drug culture has and continues to play in their creation, production and reception. Considering the social, cultural and political subversion of films screened; reception and ritual practices of cult audiences; analyze the transgressive nature of midnight movies, questions of taste, film aesthetics, and the influence of cult films and cannabis culture on mainstream cinema and branding. UC/CSU
Offered Fall semesters

CINE 24. Basic Film Production (4)
Lec-70 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course offers instruction in basic film production, including fundamentals of digital and analog camera operation, basic editing principles, and an overview of lighting and sound. In-class equipment and crew workshops, assigned technical and creative exercises, individual off-campus film and video projects, in-class screening and critique of student work. Each student completes at least two individual projects. UC/CSU

CINE 25. Narrative Filmmaking (3)
Lec-52.5 P/NP available
Prereq: CINE 24
This course provides students with intensive practice in narrative technique and aesthetics known as the classical continuity system. Emphasis is placed on pre-visualizing, filming and editing scenes which employ continuity, create dramatic effects and encourage audience identification. The history and practice of narrative technique is explored via shooting and editing exercises which culminate in the execution of a final film project. CSU

CINE 30. Production Planning (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course covers all aspects of planning the production of film projects. The skills to estimate, calculate, negotiate and evaluate all costs, legal concerns, insurance issues, permits and pitfalls of film production will be explored. Project budgets and organization for shorts, music videos, commercials, documentaries and narrative feature films are examined. CSU

CINE 40. Professional Development & Film Exhibition (2)
Lec-35, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Develops students' awareness of professions in the field in production, distribution and exhibition and various strategies for achieving success. Puts students face-to-face with commercial and independent filmmakers, editors, public television producers, and exhibition professionals. Students gain both a historical overview of festival exhibition and practical work experience in programming a film festival. Course culminates in City Shorts, the annual spring student film showcase. CSU
Formerly CINE 40 Film Festival
Offered on occasion

CINE 54. Cinematography & Lighting (3)
Lec-52.5, field trips
Prereq: CINE 24
Development of the art and practice of cinematography and lighting in the execution of short, single-camera styled projects. Assignments focus on lens choice, motivated camera movement, color temperature & correction, 16mm and digital video camera operation, and lighting design. Students learn to work together as a crew as defined by industry standards. CSU

CINE 56. Introduction to Digital Film Editing (4)
Lec-52.5, Lab-52.5, field trips
Prereq: CINE 24
Recommended Prep: CINE 25
Introduction to digital film editing and post-production techniques using current industry standard, non-linear editing systems within the cinematic discipline. Editing skills are learned in the context of examining film form, style and aesthetics. CSU
Offered Fall semesters

CINE 57. Experimental Filmmaking (3)
Lec-52.5, field trips P/NP available
Recommended Prep: CINE 24 and CINE 25
Explore non-narrative filmmaking techniques stressing personal expression through individual production of short films in a historical context. Projects include utilization of a range of different experimental techniques and will reference films screened and discussed in class. UC/CSU
Removed co-requisite CINE 54 and changed prerequisites CINE 24 and 25 to advisories, per Curriculum Committee approval March 20, 2019.
Offered Fall semesters

CINE 60. Sound for Motion Pictures I (3)
Lec-52.5, field trips P/NP available
Recommended Prep: CINE 24 and CINE 25
An overview of sound recording and design with a focus on hands-on, practical approaches. Sound recording techniques using a variety of microphones and audio recorders; sound editing and design using digital audio workstations to manipulate sync sound, dialogue, sound effects, music, and for sound mixing. Film screenings, lectures, demonstrations, and field trips. CSU

CINE 61. Sound for Motion Pictures II (3)
Lec-52.5, field trips P/NP available
Prereq: CINE 24; CINE 25; CINE 60
Advanced work for filmmakers in sound recording, editing, design and mixing for motion pictures. Demonstrations of professional film location sound equipment, digital sound editing workstations, and film sound mixing studios. Film screenings and field trips to complement class lectures, discussions, exercises, demonstrations, group and individual work projects. CSU
Offered on occasion

CINE 72. Nonfiction Scriptwriting (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
An introductory course that offers essential skills in writing a professional nonfiction script. Attention to research methods supporting content development, interviewing technique, story structure, script format, and cinematic grammar are emphasized. Historical nonfiction

films and their influence on current work will also be explored. CSU
Offered on occasion

CINE 74. Advanced Cinematography And Lighting (3)
Lec-52.5, field trips
Prereq: CINE 54.
Building on CINE 54 Cinematography & Lighting, students will further develop their ability to translate theme, story, and emotion into motion picture imagery. Cinematography & lighting skills are refined via single-camera styled projects. Assignments focus on complex lighting design and camera movement as students employ advanced camera, lighting & grip equipment. CSU
Offered on occasion

CINE 75A. Introduction to Screenwriting (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introductory course in writing for cinema, emphasizing professional format, screenplay structure, building conflict, character and thematic development, and visual storytelling skills. Students will create the first act of an original screenplay. CSU

CINE 75B. Intermediate Screenwriting (3)
Lec-52.5 P/NP available
Prereq: CINE 75A
An intermediate course in writing for cinema, emphasizing professional format, screenplay structure, building conflict, character and thematic development, and visual storytelling skills. These skills are employed in creating the second act of an original screenplay. CSU

CINE 75C. Advanced Screenwriting (3)
Lec-52.5 P/NP available
Prereq: CINE 75B
An advanced screenwriting course focused on professional format, deep character, theme, and plot development, escalating conflict, and enhanced visual storytelling skills. Students in CINE 75C will complete Act III, the final act of a feature screenplay ideally developed in CINE 75B, and engage in intensive revisions. CSU

CINE 76. Advanced Digital Film Editing (4)
Lec-52.5, Lab-52.5, field trips
Prereq: CINE 56
Advanced editing skills and techniques to create professional quality projects, including transcoding, color correction, and mastering. Historical and contemporary editing styles are explored. CSU
Offered on occasion

CINE 126. Documentary Filmmaking (3)
Lec-52.5, field trips
Prereq: CINE 24
Introduction to documentary filmmaking production, from concept to distribution. Emphasis on fundamental skills including documentary producing, sound recording, lighting, cinematography and editing. Production practice is explored in the context of historical movements and contemporary issues. CSU
Offered on occasion

CINE 131. Directing Motion Pictures (3)
Lec-52.5 P/NP available
Prereq: CINE 24 and CINE 25; Completion of or concurrent enrollment in: CINE 54
Recommended Prep: Readiness for college-level English or ESL 188
Explores the role of the film director in the translation of script to screen through development and execution of single-camera-style projects. Emphasis is on script analysis, pre-visualization planning and blocking, crew management and working with actors. CSU
Offered on occasion

CINE 136. Special Effects (3)
Lec-52.5 P/NP available
Recommended Prep: CINE 24 and CINE 25
Introduction to design and creation of professional level special effects for cinema using industry standard tools, including After Effects. Focus is on Computer Generated Imagery (CGI), motion graphics for film/video, and the special effects production process. CSU
Offered Spring semesters

CINE 170. Film/Video Work Experience (1-2)
Work-60-150 P/NP available
Prereq: Approval of the Cinema Department
Repeat: Students can repeat three times (total 4 enrollments)
Jobs usually arranged by the student, subject to Cinema Department approval. Job experience at CCSF, such as issuing film equipment, mentoring/tutoring cinema students, crewing or editing sound or picture for a local production company, are within the scope of this learning experience of film/video industry or related projects. Two units of credit are earned for 120 hours of unpaid work or 150 hours of paid work. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU

Communication Studies

Office: Cloud 208A
Phone Number: (415) 452-7126
Web Site: *www.ccsf.edu/CMST*

Announcement of Curricula

Communication Studies Major (AA-T)

Communication studies majors learn about the communication process and acquire the skills needed to effectively communicate with others--both within and across cultural boundaries--in a variety of public, small group, and interpersonal settings. Students develop organizational, critical thinking, research, and active listening skills as they craft messages that are adapted for the audience, context, and communication modality.

Learning Outcomes

Upon completion of this program, students will be able to:

- Articulate an understanding of the communication process and the ways communication practices shape perceptions of civic, social, and environmental issues.
- Identify and use culturally competent communication practices.
- Deliver presentations with effective verbal and nonverbal communication.
- Apply advanced critical thinking skills to structure logical, credible, and well researched arguments that address complex social problems.
- Critique the communication practices of others and demonstrate critical listening skills that further the constructive exchange of ideas.

Students who wish to earn the Associate in Arts in Communication Studies for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the

major as specified below. Each course in the major must be completed with a grade of "C" (or "P) or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Communication Studies

Course	Units
Required course:	
CMST 1A Elements of Public Speaking	3.0
List A Choose 2 courses (6 units)	
CMST 3 Argumentation and Debate	3.0
CMST 4 Group Communication	3.0
CMST 20 Interpersonal Communication	3.0
List B Choose 2 courses (6 units)	
CMST 2 Introduction to Rhetorical Criticism	3.0
CMST 5 Intercultural Communication	3.0
CMST 7 Oral Interpretation of Literature	3.0
CMST 38 Forensics Competition	3.0
Any course not selected from List A	
List C- Choose 1 course (3 units)	
ANTH 3 Introduction to Social and Cultural Anthropology	3.0
CMST 8 Rhetoric of Popular Culture	3.0
ENGL 1B Writing about Literature	4.0
ENGL 1C Writing about Nonfiction	4.0
JOUR 21 News Reporting and Writing	3.0
PSYC 1 General Psychology	3.0
SOC 1 Introduction to Sociology	3.0
Any course not selected from lists A or B	
Total:	**18.0 – 19.0**

Announcement of Courses

Credit, Degree Applicable Courses:

CMST 1A. Elements of Public Speaking (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Mastery of the research, organization, and delivery of extemporaneous speeches. Focus on rhetorical theory, listening, audience analysis, speech construction, and use of evidence, language, and presentation aids. UC/CSU
C-ID COMM 110
Formerly SPCH 1A.

CMST 2. Introduction to Rhetorical Criticism (3)
Lec-52.5
Prereq: ENGL 1A
Studies the rhetorical tradition and significant rhetorical artifacts. Analyzes public discourse through the application of rhetorical methods. Communication artifacts are evaluated for support, reasoning, language use, message construction, and context in a series of academic research papers. Emphasizes critical thinking principles alongside techniques of effective discourse. UC/CSU
Formerly SPCH 2.

CMST 3. Argumentation and Debate (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Critical approaches to social, legal, and political problems are studied through oral argument and debate. Analysis, evidence, reasoning, ethics, rhetorical power and persuasion from a communication studies perspective. UC/CSU
C-ID COMM 120
Formerly SPCH 3.

CMST 4. Group Communication (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Focus on the principles of group interaction and decision making, including the study of leadership, teamwork, and conflict resolution. Participation in groups to share information, solve problems, and reach consensus. UC/CSU
C-ID COMM 140
Formerly SPCH 4.

CMST 5. Intercultural Communication (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course develops competence in managing conflict and interacting with people who are culturally different. Students participate in discussions and complete written and oral assignments, developing communication strategies and skills that result in deliberate and fruitful intercultural outcomes. UC/CSU
C-ID COMM 150
Formerly SPCH 5.

CMST 6. Workplace Communication (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Study and application of effective workplace communication principles. Focus on development of communication skills that support the development of healthy workplace relationships, delivery of effective business presentations, and pursuit of career opportunities. CSU
Formerly SPCH 6.

CMST 7. Oral Interpretation of Literature (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Focus on interpretation as a creative and analytical meaning-making process. Training in solo, duet and group readings of drama, prose and poetry. Through selecting, reading, analyzing, editing and interpreting culturally diverse literature, students will better understand the structural and aesthetic components of narrative and performance. UC/CSU
C-ID COMM 170
Formerly SPCH 7.

CMST 8. Rhetoric of Popular Culture (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Studies U.S. popular culture as a means to communicate cultural values and attitudes. Evaluates popular culture in different mediums, such as advertisements, social media, television, film, and politics. Uses communication methods to develop a greater understanding of the ways communication functions as a vehicle for social change. UC/CSU
Formerly SPCH 8.

CMST 20. Interpersonal Communication (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Focus on the impact that communication has on the interaction between individuals in settings including family, friendship, intimate and work situations. Students are expected to demonstrate and apply these skills through individual and group presentations and activities. UC/CSU
C-ID COMM 130
Formerly SPCH 20

CMST 30. Individual Project in Oral Communication (1)
Lec-11, Lab-20, field trips P/NP only
Recommended Prep: Readiness for college-level English or ESL 188
Skills development in researching, writing, and delivering scripted speeches or debates that publicly address a socially significant issue. CSU
Offered on occasion

CMST 38. Forensics Competition (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Repeat: Students can repeat three times (total 4 enrollments)
Development of speaking and argumentation skills through participation in intercollegiate speech and debate tournaments. Course repetition allows mastery of communication skills through the recursive process of researching, writing, practicing, and delivering speeches. CSU
C-ID COMM 160B
Formerly SPCH 38.

CMST 50. Rhetoric of Cannabis (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A study of cannabis representations to better understand how social discourse informs perceptions and political realities. Examines how rhetorical acts shape cultural values and beliefs, with an emphasis on the culture of cannabis. UC/CSU

Noncredit Course:

CMST 1001. Communication Anxiety (20 hrs)
Recommended Prep: ESLN 3800
Develop confidence and learn strategies to manage apprehension and anxiety when delivering presentations and communicating in small groups. This course may be taken alone or as supplemental instruction for courses that involve oral communication.
Offered Spring semesters

Computer Networking and Information Technology

Office: Science 147
Phone Number: (415) 452-5323
Web Site: *www.ccsf.edu/cnit*

Announcement of Curricula

General Information

For students who wish to earn an Associate's degree, or who want computer training that will lead to employment, the Computer Networking and Information Technology Department offers certificate programs. Areas of study include computer technical support, networking, cyber security and web development.

Transfer to Other Colleges and Universities. Students who complete the two-year Associate in Science degree program may choose to continue their education and earn a Bachelor's degree. City College of San Francisco has transfer agreements with many of the California State University and University of California campuses.

Students who are interested in transferring after completion of the two-year degree program should consult the "Transfer Information" section of this catalog and discuss their plans with their program advisor or counselor.

Computer Networking and Information Technology Major (AS)

The Associate of Science degree with a major in Computer Networking and Information Technology (CNIT) not only provides students with a solid foundation of skills, knowledge, and hands-on experience in the core areas of the field of Computer Networking and Information Technology but also with the current trends and technologies used in the computer industry. The topics covered in this major include computer hardware, network administration, network security, and the basics of Internet and Web development, as well as one of the following optional areas: computer technical support, internet and web development techniques, network security, wireless networks, Cisco networking, or Microsoft Windows administration. This degree qualifies students for employment in entry-level network administration, computer technical support, or web development positions.

Learning Outcomes

Upon completion of this program, students will be able to:

- Demonstrate the use of network devices, network operating systems, and networking models and their related protocols.
- Develop and maintain a basic web site using web development industry standards.
- Evaluate computer hardware components and design a functional computer system.
- Explain the basics of network security systems.
- Apply networking competency in analyzing problems and resolving system faults

Optional competency areas:

- Computer technical support: Troubleshoot and repair defective computer systems
- Internet and web development techniques: Recognize and use appropriate web development technologies to promote or enhance the work environment
- Network security: Develop strategies for network defense using firewalls, routers, switches, antivirus, anti-spyware tools, and hacking techniques
- Wireless networks: Evaluate components to prepare and install wireless networks
- Cisco networking: Configure and operate Cisco Local and Wide Area Networking hardware and software
- Microsoft Windows: Install and support a Microsoft Windows networking environment including Windows Server, SQL Server database and Windows Desktop edition

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Computer Networking and Information Technology

Course	Units
Core courses:	
CNIT 103 Computer Hardware	3.0
CNIT 120 Network Security	3.0
CNIT 131 Internet Basics and Beginning HTML	3.0
Choose one of the following network courses:	
CNIT 106 Introduction to Networks	3.0
CNIT 201C Introduction to Cisco Networks	3.0
Choose option 1, 2, 3, 4, 5, or 6	
OPTION 1: COMPUTER TECHNICAL SUPPORT	
CNIT 103L Computer Hardware Lab	1.0
or CNIT 105L Computer Technical Support	1.0
CNIT 104 Operating Systems Technologies	3.0
CNIT 105 IT Customer Support	3.0
CNIT 401 Windows 10 Technical Support	3.0
OPTION 2: FRONT END WEB DEVELOPMENT	
CNIT 132 Intermediate HTML and CSS	3.0
CNIT 133 JavaScript, jQuery, AJAX	3.0
CNIT 134 Server Side Technologies for the Web	3.0
OPTION 3. CYBERSECURITY	
CNIT 121 Computer Forensics	3.0
CNIT 122 Firewalls	3.0
CNIT 123 Ethical Hacking & Network Defense	3.0
OPTION 4: WIRELESS NETWORKS	
CNIT 107 Wireless LANs	3.0
CNIT 108 Wireless Networks, Advanced	3.0
CNIT 113 Technology of Smartphones & Mobile Devices	3.0
OPTION 5: CISCO NETWORKING	
CNIT 202C Routing and Switching Essentials	3.0
CNIT 203C Scaling Networks	3.0
CNIT 204C Connecting Networks	3.0
OPTION 6: MICROSOFT WINDOWS	
CNIT 416 Installing and Configuring Windows Server 2016	3.0
CNIT 417 Administering Windows Server 2016	3.0
and CNIT 401 Windows 10 Technical Support	3.0
or CNIT 415 SQL Server Administration	3.0
or CNIT 420 Configuring and Administering Microsoft Azure	3.0
Total:	**21.0 – 22.0**

Certificate Curricula

The certificate programs are designed to meet the needs of students who want 1) to obtain entry-level employment, 2) to advance in their current positions, or 3) to change careers. Certificate programs enable students to demonstrate specialization in areas such as computer technical support, networking, security, and web site development techniques.

Requirements for the Certificate of Accomplishment or Achievement. A student may obtain the Certificate of Accomplishment or Achievement by completing each of the courses offered in the certificate programs as listed below with a grade of "C" or better.

Several certificate programs are available. Each program prepares a student for a different career path. Additional information is available from the Department Chairperson.

Advanced Web Development Techniques Certificate

This certificate includes instruction and practice in advanced techniques for development, configuration, and operation of websites focusing on performance, accessibility, and user experience of web applications. Students completing this certificate program will be qualified for employment in entry-level or mid-level positions in front-end website development.

Learning Outcomes

Upon completion of this program, students will be able to:

- Develop and maintain websites according to industry standards
- Apply techniques to add interactivity to web pages via scripting programs and use of libraries/frameworks
- Apply techniques to enhance ranking of websites in search engines and enhance accessibility

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Advanced Web Development Techniques

Course	Units
Required courses:	
CNIT 132 Intermediate HTML and CSS	3.0
CNIT 132A Advanced HTML and CSS	3.0
CNIT 133 JavaScript, jQuery, AJAX	3.0
CNIT 133A JavaScript Libraries/Frameworks	3.0
CNIT 133M Mobile Web w/HTML, CSS & JS	3.0
Choose one of the following work experience courses:	
CNIT 195 Web Development Capstone	3.0
CNIT 198 Internship and Work Experience	2.0
Total:	**17.0 – 18.0**

Computer Technical Support Certificate

This certificate includes instruction in the support of a modern workplace computer environment including hardware, operating systems, online envrionments, and application programs. Students in this program practice modern diagnostic troubleshooting, technical and logical problem solving, end-user training, and customer relations skills. Students completing this certificate program will be qualified for entry-level computer technical support, IT, and help desk positions.

Learning Outcomes

Upon completion of this program, students will be able to:

- Evaluate components and configure a functional computer system.
- Troubleshoot and repair defective computer systems.
- Configure and diagnose basic network connectivity.
- Demonstrate correct use of office productivity applications.

Students must complete each course with a grade of "C" or higher.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Computer Technical Support

Course	Units
Required courses:	
CNIT 100 Intro to Computers Using PC's	3.0

CNIT 101 Operating Systems I Windows 3.0
CNIT 102 Operating Systems II Command Line 3.0
CNIT 103 Computer Hardware 3.0
CNIT 104 Operating Systems Technologies 3.0
CNIT 105 IT Customer Support 3.0
CNIT 106 Introduction to Networks 3.0

Choose one of the following courses:
CNIT 197 Internship and Work Experience 1.0
CNIT 103L Computer Hardware Lab 1.0
CNIT 105L Computer Technical Support 1.0

Total: 22.0

Computer Technician Certificate

This certificate includes instruction and practice in the identification, installation, and configuration of hardware devices to build, maintain, upgrade, and improve performance of a computer system. This course prepares students for CompTIA's A+ exam, a certification equivalent to six months' work experience as a computer technician. Students completing this certificate program will be qualified for entry-level computer technician and technical support positions.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify, install and configure hardware devices.
- Build, maintain and upgrade computer systems.
- Improve performance of computer systems.
- Prepare for industry certification exam equivalent to 6 months' work experience as a computer technician.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Computer Technician

Course . . . . . Units
Required courses:
CNIT 101 Operating Systems I Windows 3.0
CNIT 102 Operating Systems II Command Line 3.0
CNIT 103 Computer Hardware 3.0
CNIT 103L Computer Hardware Lab 1.0
CNIT 104 Operating Systems Technologies 3.0
CNIT 197 Internship and Work Experience 1.0

Total: 14.0

Cybersecurity Certificate

This certificate includes instruction in threats to networked computers and devices, and defense techniques.

Students completing this certificate program will be qualified for employment as networking professionals at

security-conscious companies and be able to prepare for the Comp TIA Security+exam and the E-C Council

Certified Ethical Hacker exam.

Learning Outcomes

Upon completion of this program, students will be able to:

- Evaluate common security threats and implement proper defenses.
- Analyze networked systems for evidence of abuse or intrusions.
- Perform basic penetration tests and security audits of networked systems.

The minimum time for completion of this certificate is two semesters. Completion time will vary based on student preparation and the number of classes completed per semester.

Courses Required for the Certificate of Achievement in Cybersecurity

Course . . . . . Units
Required courses:
CNIT 120 Network Security 3.0
CNIT 121 Computer Forensics 3.0
CNIT 122 Firewalls 3.0
CNIT 123 Ethical Hacking & Network Defense 3.0
CNIT 40 DNS Security 1.0

Choose one of the following network courses:
CNIT 106 Introduction to Networks 3.0
CNIT 201C Introduction to Cisco Networks 3.0

Total: 16.0

Advanced Cybersecurity Certificate

This certificate includes instruction in security risks and protection techniques for mobile devices, Web applications, and telephone networks, and how to manage information security programs. Students completing this certificate program will be qualified for employment as incident response specialists, Chief Security Officers, or malware analysts, and be able to prepare for the (ISC)^2 Certified Information Systems Security Professional exam.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe common cybersecurity threats and defenses, prioritize them, and properly implement defenses such as firewalls and intrusion defense systems
- Analyze systems for evidence of abuse or intrusions
- Perform advanced attacks and defend against them
- Communicate with management effectively and clearly, and prepare security management policies

Courses Required for the Certificate of Accomplishment in Advanced Cybersecurity

Course . . . . . Units
Core courses:
CNIT 124 Advanced Ethical Hacking 3.0
CNIT 125 Information Security Professional Practices 3.0
CNIT 126 Practical Malware Analysis 3.0
CNIT 127 Exploit Development 3.0
CNIT 128 Hacking Mobile Devices 3.0

Total: 15.0

Front-End Web Development Certificate

This certificate includes instruction and practice in the development, configuration, and operation of websites or web applications. Students completing this certificate program will be qualified for employment in entry-level positions or internships in front-end web development. This certificate also provides a foundation for students to proceed to other certificates and the AS and specialize in different areas of web development.

Learning Outcomes

Upon completion of this program, students will be able to:

- Develop and maintain websites or web applications according to industry standards
- Recognize and use appropriate Web 2.0 technologies to promote or enhance the work environment
- Add interactivity to web pages via scripting programs and/or server-side technologies

Students must complete each course with a grade of "C" or higher.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Front-End Web Development

Course	Units
Required courses:	
CNIT 131H Introduction to HTML and CSS	1.0
CNIT 132 Intermediate HTML and CSS	3.0
CNIT 133 JavaScript, jQuery, AJAX	3.0
CNIT 134 Server Side Technologies for the Web	3.0
Choose one of the following courses:	
CNIT 131A XML and JSON	3.0
CNIT 129 Social Media, Blogs in Web Development	3.0
Total:	**13.0**

Fundamentals of Networking Certificate

This certificate provides a solid core of the concepts and terminology, and introduction and overview of all aspects of computer networking, including components and principles of local and wide area networking and the Internet. Students who complete this certificate will be ready to undertake further study and advance to more specific industry training in order to be qualified for entry-level positions in network administration.

Learning Outcomes

Upon completion of this program, students will be able to:

- Define the major hardware components of computers and network devices.
- Describe the role of operating systems including network operating systems.
- Compare and contrast the OSI and TCP/IP networking models and their related protocols.
- Create a simple web site using HTML and upload it on a server.
- Explain the role of switches and routers in LANs and WANs.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Fundamentals of Networking

Course	Units
Required courses:	
CNIT 103 Computer Hardware	3.0
CNIT 104 Operating Systems Technologies	3.0
CNIT 106 Introduction to Networks	3.0
CNIT 131 Internet Basics and Beginning HTML	3.0
CNIT 120 Network Security	3.0
Total:	**15.0**

Fundamentals of Technical Support Certificate

This certificate includes instruction in introductory technical support skills. Students will learn the fundamentals of: problem-solving technical support issues related to end-user computer applications, hardware and operating systems. Students completing this certificate program will be qualified for employment in entry-level computer technical support positions.

Learning Outcomes

Upon completion of this program, students will be able to:

- Recognize technical support skills required by the IT industry.
- Identify and solve computer-related issues.
- Support and maintain computer applications, hardware and operating systems.
- Provide basic IT Project Management skills.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Fundamentals of Technical Support

Course	Units
Required courses:	
CNIT 100 Intro to Computers Using PC's	3.0
CNIT 103 Computer Hardware	3.0
CNIT 104 Operating Systems Technologies	3.0
CNIT 105 IT Customer Support	3.0
CNIT 103L Computer Hardware Lab	1.0
or CNIT 197 Internship and Work Experience	1.0
Total:	**13.0**

Internet of Things Certificate

The Internet of Things, also referred to as IoT, describes the exponential increase in connected devices, embedded computing, and edge and cloud networking worldwide. This proliferation of devices and networking technologies has created a new field for students and new demand for a prepared workforce to build, maintain and secure the hardware, software and networking technologies connecting people, processes, things, and data via emerging Internet technologies. This program includes Cisco Academy curriculum.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the things and connections that make up the Internet of Things (IoT) in relation to the physical world
- Build IoT systems using computer and networking hardware, sensors, actuators and other physical materials
- Employ IP networks and cloud applications to securely interconnect things and devices on an IoT system
- Create scripts to provide functionality for the Internet of Things
- Develop IoT solutions that address real-world problems

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Internet of Things

Course	Units
Required Courses	
MAKR 100 Introduction to History, Culture and Practices of Making	3.0
CNIT 201C Introduction to Cisco Networks.	3.0
or CNIT 106 Introduction to Networks.	3.0
CNIT 133 JavaScript, jQuery, AJAX	3.0
CNIT 133I JavaScript for IoT and XR	3.0
CNIT 214 Internet of Things	3.0
CNIT 216 Internet of Things Security.	3.0
Total:	**18.0**

JavaScript Specialist Certificate

This certificate includes instruction and practice in the development, configuration and operation of web sites focusing on JavaScript and its libraries/frameworks. Students completing this certificate program will be qualified for employment in entry-level positions in dynamic front-end web site, mobile web app development, and IoT projects.

Learning Outcomes

Upon completion of this program, students will be able to:

- Develop and maintain web applications according to industry standards.
- Apply techniques to add interactivity to web applications via scripting programs and/or use of libraries/frameworks.
- Select and apply current JavaScript libraries/frameworks to web application projects maintaining usability and accessibility.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in JavaScript Specialist

Course	Units
Required courses:	
CNIT 132 Intermediate HTML and CSS	3.0
CNIT 133 JavaScript, jQuery, AJAX	3.0
CNIT 133A JavaScript Libraries/Frameworks	3.0
CNIT 133I JavaScript for IoT and XR	3.0
CNIT 133M Mobile Web w/HTML, CSS & JS	3.0
Choose one of the following courses:	
CNIT 195 Web Development Capstone	3.0
or CNIT 198 Internship and Work Experience	2.0
Total:	**17.0 – 18.0**

Microsoft Windows Networking Certificate

This certificate includes instruction and practice in the theory, design, configuration, and operation of local and wide area networks using Microsoft Windows servers. Students completing this certificate program will be qualified for employment in entry-level positions in network management and technical support of Windows networks.

Learning Outcomes

Upon completion of this program, students will be able to:

- Define various components of Windows Server
- Use advanced techniques to implement and manage active directory infrastructure
- Support hardware, software and end-users of Windows OS Desktop edition

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Microsoft Windows Networking

Course	Units
Required courses:	
CNIT 40 DNS Security	1.0
CNIT 416 Installing and Configuring Windows Server 2016	3.0
CNIT 417 Administering Windows Server 2016	3.0
CNIT 418 Identity With Windows 2016	3.0
CNIT 401 Windows 10 Technical Support	3.0
Choose one of the following courses:	
CNIT 106 Introduction to Networks	3.0
CNIT 201C Introduction to Cisco Networks.	3.0
Total:	**16.0**

Mobile Web App Development Certificate

The program of study for the Certificate of Achievement in Mobile Web App Development includes instruction and practice in the development of websites and web apps for mobile devices. This course of study prepares students for adapting and/or creating web-sites, web apps, and hybrid apps that are able to work well in mobile devices.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use front-end web development techniques to develop web-sites, or web apps, or hybrid applications for different platforms (desktop and mobile devices)
- Evaluate, select, and use appropriate tools to convert/adapt and test websites for mobile devices
- Apply the different available solutions to build web apps or hybrid web apps

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Mobile Web App Development

Course	Units
Required courses:	
CNIT 131H Introduction to HTML and CSS.	1.0
CNIT 132 Intermediate HTML and CSS	3.0
CNIT 133 JavaScript, jQuery, AJAX	3.0
CNIT 133M Mobile Web w/HTML, CSS & JS	3.0
CNIT 134 Server Side Technologies for the Web	3.0
Choose one of the following courses:	
CNIT 131A XML and JSON	3.0
CNIT 113 Technology of Smartphones & Mobile Devices	3.0
Total:	**16.0**

Network Security Certificate

This certificate includes instruction in the measures that must be taken to detect and prevent network security mistakes and vulnerabilities, and includes descriptions of common attacks and methods to configure operating systems, servers, routers, firewalls, and email. Students completing this certificate program will be qualified for employment in entry-level network security positions and be able to prepare for CompTIA Security+ exam.

Learning Outcomes

Upon completion of this program, students will be able to:

- Explain the basics of network security.
- Protect the IT environment using hacking techniques.
- Assess confidentiality, integrity, availability, and non-repudiation (ClAN).
- Apply strategies for network defense.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Network Security

Course	Units
Required courses:	
CNIT 40 DNS Security	1.0
CNIT 106 Introduction to Networks	3.0
CNIT 120 Network Security	3.0
CNIT 122 Firewalls	3.0
CNIT 123 Ethical Hacking & Network Defense	3.0
Choose one of the following courses:	
CNIT 121 Computer Forensics	3.0
CNIT 124 Advanced Ethical Hacking	3.0
CNIT 125 Information Security Professional Practices	3.0
Total:	**16.0**

NextGen Automotive and IT Technician Certificate

Automotive technologies in the 21st century require a workforce prepared with both automotive and technical computer skills. Embedded throughout modern automobiles, as well as autonomous and electric vehicles, are computer systems made up of software, hardware, and networked electronic control units. This joint program between AUTO and CNIT prepares students with both automotive technology skills -- including safe tool and equipment handling and automobile maintenance and repair--and computer and IT technical skills, including hardware, software, networking, and cyber security.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the hardware, software, and networking components of modern and next generation automobiles.
- Maintain and secure modern vehicles with hardware and software tools.
- Set up the correct environment to use computer technology tools in an automotive repair shop.
- Identify and repair security threats to modern automotive systems with NextGen hardware, software, and physical tools.

The minimum time for completion of this certificate is two (2) semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in NextGen Automotive and IT Technician

Course	Units
Required Courses	
CNIT 106A Introduction to Networking	1.0
AUTO 50 Intro to Automotive Mechanics	3.0
CNIT 100 Intro to Computers Using PC's	3.0
CNIT 131 Internet Basics and Beginning HTML	3.0
AUTO 180 Reflashing and Factory Scan Tools for Technicians	3.0
CNIT 182 Hacking and Securing Automotive Systems	3.0
Total:	**16.0**

Routing and Switching (Cisco) Certificate

This certificate includes instruction and practice in the theory, design, configuration, and operation of simple Local and Wide Area Networks. Students completing this certificate program will be qualified for employment in entry-level positions in network administration and be able to prepare for the Cisco Certified Entry Networking Technician (CCENT) and the Cisco Certified Network Associate (CCNA) certification exam.

Learning Outcomes

Upon completion of this program, students will be able to:

- Compare OSI and TCP/IP networking models and their related protocols
- Explain the importance of addressing and naming schemes of various layers of data
- Compare and configure various internal routing protocols
- Analyze, configure, and troubleshoot switch configurations including LANs and VLANs
- Describe and configure a variety of WAN protocols in routers
- Define basic network security issues and possible solutions

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Routing and Switching (Cisco)

Course	Units
Required courses:	
CNIT 103 Computer Hardware	3.0
CNIT 201C Introduction to Cisco Networks	3.0
CNIT 202C Routing and Switching Essentials	3.0
CNIT 203C Scaling Networks	3.0
CNIT 204C Connecting Networks	3.0
CNIT 120 Network Security	3.0
CNIT 417 Administering Windows Server 2016	3.0
Total:	**21.0**

Security for Web App Development Certificate

The program of study for the Certificate of Accomplishment in Security for Web App Development includes instruction and practice in the development of web sites and web apps using the most current security techniques. This course of study prepares students for adapting

and/or creating web sites with techniques that enhance the security of those applications.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use front-end web development techniques to develop and publish web sites or web apps for different platforms
- Compare the different methods for securing shared resources used by web apps
- Evaluate the different types of security problems that might occur in a web application project
- Implement web application security techniques effectively

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Security for Web App Development

Course	Units
Required	
CNIT 120 Network Security	3.0
CNIT 132 Intermediate HTML and CSS	3.0
CNIT 133 JavaScript, jQuery, AJAX	3.0
CNIT 129S Securing Web Applications	3.0
Choose one of the following courses	
CNIT 131A XML and JSON	3.0
CS 150A Introduction to SQL Databases and NoSQL	3.0
Total:	**15.0**

Wireless Networking Certificate

This certificate includes instruction in the description, installation, and configuration of network devices for wireless communication, focusing on issues of performance and security. Students completing this certificate program will be qualified for employment in entry-level positions in the administration of wireless networks and to begin preparation for the Certified Wireless Network Administrator (CWNA) and Certified Wireless Security Professional (CWSP) industry certification exam.

Learning Outcomes

Upon completion of this program, students will be able to:

- Configure and diagnose basic network connectivity
- Evaluate components of and prepare a wireless network
- Install a wireless network
- Troubleshoot a wireless network
- Configure mobile network technology

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Wireless Networking

Course	Units
Required	
CNIT 106 Introduction to Networks	3.0
CNIT 107 Wireless LANs	3.0
CNIT 108 Wireless Networks, Advanced	3.0
CNIT 120 Network Security	3.0
CNIT 113 Technology of Smartphones & Mobile Devices	3.0
Total:	**15.0**

Announcement of Courses

Credit, Degree Applicable Courses:

CNIT 11. IT Professional Conduct (1)
Lec-17.5 P/NP available
Recommended Prep: CRER 62
Skills and techniques for effective professional self-promotion and workplace rapport in an Information Technology environment. Establishing a professional image and reputation, including resumes and portfolio building, and adhering to workplace protocols and standards for professional conduct. CSU

CNIT 34. Computer Technology Skills for Teachers (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
General and specialized computer and technology skills for teachers and future teachers. Desktop and mobile computer hardware, networking and security basics, software and coding tools for teaching and learning, and representative and emerging technologies in use in educational settings such as K-12 and higher education. Meets multiple and single subject credential state requirements. CSU
Offered on occasion

CNIT 40. DNS Security (1)
Lec-17.5 P/NP available
Recommended Prep: CNIT 106
DNS is essential but has numerous security issues: hijacking, packet amplification, spoofing, snooping, and more. Configure secure DNS servers and detect malicious activity. DNSSEC (DNS Security) principles and deployment. Hands-on projects using both Windows and Linux platforms. CSU
Offered on occasion

CNIT 50. Network Security Monitoring (1)
Lec-17.5 P/NP available
Recommended Prep: CNIT 106
Learn modern, powerful techniques to inspect and analyze network traffic, to quickly detect abuse and attacks and respond to them. This class also covers the configuration and use of Security Onion, a popular open-source Linux distribution designed for network security monitoring. CSU
Offered Fall semesters

CNIT 100. Intro to Computers Using PC's (3)
Lec-52.5
A computer literacy course using personal computers. Prepares students to use computer applications. Provides an overview of computer components including hardware, software, and data, as well as computer concepts related to networks and security. Includes fundamentals of Windows and other operating systems and applications such as word processing, spreadsheets, database, presentations and the internet. Students use computers to complete class assignments. UC/CSU

CNIT 100M. lntro to Computers Using Macintosh (3)
Lec-52.5 P/NP available
Computer literacy course using Apple computers. Prepares students to use computers to write papers, organize information and use email. Overview of computer components including hardware, software and data. Fundamentals of Finder and applications such as word processing, spreadsheets, email, and the Internet. Students use Apple computers to complete class assignments. UC/CSU
Offered on occasion

CNIT 101. Operating Systems I - Windows (3)
Lec-52.5
Recommended Prep: CNIT 100
A technical course about the Microsoft Windows operating system for students who have some computer experience. Learn techniques to manage a personal computer through the use of operating system utilities and commands. Practice setting up and customizing the interface and managing programs and data. Manage the computer system hardware. CSU
Offered on occasion

CNIT 102. Operating Systems II - Command Line (3)
Lec-52.5
Recommended Prep: CNIT 101
An intermediate to advanced-level course covering the use of Windows command line tools with the primary focus on Command Prompt and Windows PowerShell. This course is designed for students planning to take a certificate with concentration in Windows server and client administration, networking or hardware, and for advanced Windows users. Students will learn how to use Windows command line tools to manage and troubleshoot Windows servers and workstations. CSU

CNIT 103. Computer Hardware (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 101
This course provides the knowledge and skills needed to install hardware, configure, repair and maintain computer system in a typical office environment. Topics include hardware components and peripherals, assembly, upgrading and basic troubleshooting. CSU

CNIT 103L. Computer Hardware Lab (1)
Lab-52.5 P/NP available
Recommended Prep: Completion of or concurrent enrollment in: CNIT 103
A project-oriented hands-on introduction to hardware identification, maintenance, upgrade, diagnosis, and troubleshooting. Designed to provide practice with concepts, techniques and procedures covered in CNIT 103 with hands-on exercises that prepare for A+ certificate exams. Teamwork will be emphasized. CSU

CNIT 103M. Apple Mac Hardware (3)
Lec-52.5 P/NP available
ADAVISE: CNIT 100M
This course provides the knowledge and skills needed to service the hardware on various Apple Mac systems. Topics include hardware components, system configuration, hardware upgrades, troubleshooting techniques, Apple specific tools and safety procedures. CSU
Offered on occasion

CNIT 104. Operating Systems Technologies (3)
Lec-52.5
Recommended Prep: CNIT 103
This course provides the knowledge and skills to select and install system software, and to diagnose and troubleshoot system problems due to software configuration. Covers all aspects of the operating system, configuration files, drivers, and resource allocation. Topics include computer architecture and the interaction of hardware and software, documentation, command line operations, use of utilities for diagnostics and for configuration, and editing the Registry. CSU

CNIT 105. IT Customer Support (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 103 and CNIT 104
Introduction to the field of technical support, including the critical people skills and exceptional technical knowledge required to provide outstanding service. Emphasis on information resources and technical tools needed most to function effectively in a technical support position. CSU
Offered Spring semesters

CNIT 105L. Computer Technical Support (1)
Lab-52.5 P/NP available
Recommended Prep: CNIT 105.
Hardware diagnosis and troubleshooting, software maintenance, upgrading, and problem-solving. Work with Help Desk software to log calls and real end-user problems in a simulated service center. Designed to provide hands-on practice with hardware and software, techniques and procedures, covered in CNlT 105. Teamwork will be emphasized. CSU
Offered Spring semesters

CNIT 106. Introduction to Networks (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 100; CNIT 103
This course will teach the skills required to troubleshoot, configure, and manage common network devices; establish basic network connectivity; understand and maintain network documentation; identify network limitations and weaknesses; and implement network security, standards, and protocols. The candidate will have a basic understanding of enterprise technologies, including cloud and virtualization technologies. Follows objectives of CompTIA Network+ certification exam. CSU

CNIT 106A. Introduction to Networking (1)
Lec-17.5
This is a course for students in related disciplines such as audiovisual technology, who need a basic understanding of networking to use equipment in the field. CSU

CNIT 107. Wireless LANs (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 106
Selection, installation and configuration of wireless networks, including: fundamentals and standards of wireless communication, installation of network access points, and installation, configuration and management of typical products. Also included: common applications, monitoring the network, security, troubleshooting, upgrade, and modification. Students in this course should be already familiar with LAN technologies. CSU

CNIT 108. Wireless Networks, Advanced (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 107
Students will design, install, configure, manage, and maintain wireless networks with advanced fundamentals of WLANs, current and developing standards and protocols, boosting, detecting and extending signal, troubleshooting and monitoring the network, security issues, research of proposed security solutions. The course follows objectives for the Certified Wireless Network Administrator Exam (CWNA). CSU
Offered Spring semesters

CNIT 113. Technology of Smartphones & Mobile Devices (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 100
Overview of mobile device technologies with an emphasis on smartphones, tablets, and wearable devices. This course will introduce the technologies behind smartphones, tablets, and wearable devices including the hardware, cellular networks, operating systems, browsers, app development process, and support needs from an individual and corporate perspective. CSU
Offered Fall semesters

CNIT 120. Network Security (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 201C and CNIT 106
Knowledge and skills - to recognize security vulnerabilities, implement security measures, analyze network environments for known security threats or risks, defend against attacks or viruses, ensure data privacy and integrity. Terminology and procedures for implementation and configuration of security: access control, authorization, encryption, packet filters, firewalls and Virtual Private Networks (VPNs). CSU

CNIT 121. Computer Forensics (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 120
Forensics tools, methods and procedures for investigating computers. Data recovery techniques and evidence collection, protection of evidence, expert witness skills and computer crime investigation techniques. Analysis of various file systems and specialized diagnostic software to retrieve data. Prepares in part for CompTIA Security+ and maps to Computer Investigation Specialists exam. CSU

CNIT 122. Firewalls (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 120
Fundamentals, techniques, and procedures to design an effective secure Internet connection using software or hardware firewalls. Discussion of types of firewalls, packet filtering, proxy servers, Intrusion Detection Systems, and Virtual Private Networks (VPNs). CSU

CNIT 123. Ethical Hacking & Network Defense (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 106 or CNIT 201C or CNIT 120
Learn how hackers attack computers and networks, and how to protect Windows and Linux systems. Legal restrictions and ethical guidelines will be taught and enforced. Students will perform many hands-on labs, both attacking and defending, using port scans, footprinting, buffer overflow exploits, SQL injection, privilege escalation, Trojans, and backdoors. CSU

CNIT 124. Advanced Ethical Hacking (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 123
Advanced techniques in ethical hacking of Windows and Linux systems. Hands-on labs include Google hacking, automated footprinting, sophisticated ping and port scans, privilege escalation, attacks against telephone and Voice over Internet Protocol (VoIP) systems, routers, firewalls, wireless devices, web servers, and Denial of Service attacks. CSU
Offered Fall semesters

CNIT 125. Information Security Professional Practices (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 123
In-depth course in information security, including access control, application security, enterprise continuity, cryptography, technical risk management, physical security, and telecommunications and network security. This course supports preparation for the Certified Information Systems Security Professional (CISSP) credential, which is essential for high-level information security professionals. CSU
Offered Spring semesters

CNIT 126. Practical Malware Analysis (3)
Lec-52.5 P/NP available
Recommended Prep: CS 110B or equivalent familiarity with programming
Learn how to analyze malware, including computer viruses, trojans, and rootkits, using basic static analysis and dynamic analysis, including IDA Pro and other tools. CSU
Offered Spring semesters

CNIT 127. Exploit Development (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 123
Learn how to find vulnerabilities and exploit them to gain control of target systems including operating systems. Covers essential exploit development skills for advanced penetration testers and security professionals. Students will be required to obey high ethical principles and not exploit systems without authorization. CSU
Offered Fall semesters

CNIT 128. Hacking Mobile Devices (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 113 and CNIT 123
Mobile devices run specialized operating systems with security problems. Students will learn how mobile operating systems and apps work, how to find and exploit vulnerabilities and how to defend them. Topics will include phone call, voicemail, SMS intrusion, jailbreaking, rooting, NFC attacks, mal ware, browser exploitation, and application vulnerabilities. CSU
Offered on occasion

CNIT 129. Social Media, Blogs in Web Development (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 100 or demonstration of CNIT 100 exit skills
Overview of Wordpress and social media technologies to develop websites and/or use together with existing websites. Covers Web 2.0 and 3.0 technologies such as blogs, sites, social media, wikis, video and photo sharing and other tools how to integrate those technologies together. CSU
Offered Spring semesters

CNIT 129S. Securing Web Applications (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 120 and CNIT 131
This course teaches techniques used by attackers to breach Web applications and how to prevent security attacks. Topics include how to secure and manage assets such as authentication systems, access controls, databases, and back-end components, and how to protect users from attackers, including identifying common vulnerabilities in compiled code and source code. CSU
Offered Fall semesters

CNIT 131. Internet Basics and Beginning HTML (3)
Lec-52.5 P/NP available
Methods of using the Internet. History, design and protocol methods used on Internet including: electronic mail, connection to remote computers, file transfer, World Wide Web, basic web page creation and publishing using HTML and CSS. Additional topics include: computer security, copyright and electronic commerce, and basic Unix shell commands requisite to shell account use. CSU

CNIT 131A. XML and JSON (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 131H or CNIT 131
Introduction to eXtensible Markup Language (XML) and JavaScript Object Notation (JSON). Hands-on experience with XML documents, Document Type Definition (DTD), namespaces, schemas, and data presentation with eXtensible Style Language (XSLT) or Cascading Style Sheets (CSS). Introduction to JSON syntax to store and exchange data. CSU
Offered Fall semesters

CNIT 131H. Introduction to HTML and CSS (1)
Lec-17.5 P/NP available
Recommended Prep: CNIT 100
This is a beginning course in the use of HTML and CSS. It will prepare students to build simple web pages using basic HTML and CSS according to the latest standards. Students will also learn how to upload the web page files to a web server. CSU

CNIT 132. Intermediate HTML and CSS (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 131 or CNIT 131H
Intermediate and advanced HTML and CSS, based on W3C latest standards, to create websites or web applications on the World Wide Web, including images, multimedia, tables, and forms. Cascading Style Sheets used to standardize the appearance of web pages. Introduction to JavaScript, XML and definition of server side technology. CSU
Hand-coded web pages using HTML, CSS following latest standards and FTP to transfer to web server

CNIT 132A. Advanced HTML and CSS (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 132
Advanced HTML & CSS techniques such as performance, advanced styling and animation techniques, semantics, accessibility, preprocessors, search engine optimization, and use of analytics reports. CSU
Offered Fall semesters

CNIT 133. JavaScript, jQuery, AJAX (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 132
Creation of interactive web pages using JavaScript, ECMAScript including properties, methods, objects, and event handlers of the Document Object Model (DOM). Introduction of jQuery and AJAX techniques in web pages. CSU

CNIT 133A. JavaScript Libraries/Frameworks (3)
Lec-52.5 P/NP available
Prereq:. CNIT 133
Recommended Prep: CNIT 132
An extension of the JavaScript course to define and study the use of the most common JavaScript frameworks/libraries to enhance web development projects. CSU
Offered Fall semesters

CNIT 133I. JavaScript for IoT and XR (3)
Lec-52.5 P/NP available
Prereq; CNIT 133
Recommended Prep: CNIT 214
Using JavaScript as the framework to code Internet of Things (IoT) devices, eXtended Reality (XR), Augmented Reality (AR), and Virtual Reality (VR) projects in which people, processes, things, and data are connected via emerging Internet technologies. Students will integrate a variety of networking and computer hardware devices in end-to-end systems to solve practical problems. This course also includes an introduction to TypeScript, which can be used in different projects in this area. CSU

CNIT 133M. Mobile Web w/HTML, CSS & JS (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 133 or equivalent knowledge of HTML, CSS, and JavaScript/jQuery
Conversion of desktop websites and an introduction to building web applications for smartphones and mobile devices with intermediate HTML, CSS, and JavaScript. Includes techniques such as Geolocation, Local Storage, RWD, PWA, etc. and how to use famous development frameworks and platforms. UC/CSU
Offered Fall semesters

CNIT 134. Server Side Technologies for the Web (3)
Lec-52.5 P/NP available
Prereq: CNIT 133 or CS 110A
Creation and maintenance of web applications on ASP.NET or ASP.NET Core using Visual Studio IDE (Integrated Development Environment) or Visual Studio Code. Installation of packages to be used in the web applications done via the use of NuGet Management in Visual Studio IDE. CSU
First part requires Windows OS to install Visual Studio
Offered Spring semesters

CNIT 140. IT Security Practices (3)
Lec-52.5
Recommended Prep: CNIT 124
Intensive training and preparation for national security competitions and CTF (capture the flag) events. Material includes penetration testing methodology, network defense methodology, and report writing. CSU
Offered on occasion

CNIT 141. Cryptography for Computer Networks (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 120 and (elementary algebra or higher)
The class focuses on practical applications: selecting, implementing, testing, and maintaining systems to protect data on modern computer networks. Mathematical underpinnings and practical applications of modern cryptographic systems, including the Advanced Encryption Standard (AES), the Secure Hash Algorithms (SHA), and Rivest-Shamir-Adleman (RSA). CSU
Offered Fall semesters

CNIT 151. Introduction to Virtualization (3)
Lec-52.5
This course is an introduction to virtualization. Students will learn about server, cloud, client, storage networking and application virtualization in the public and private cloud, and requirements for virtual environments, administration, and data security. Students will be

exposed to different virtualization applications and platforms such as: VMware, Oracle VBox and Azure. CSU
Offered on occasion

CNIT 152. Incident Response (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 120
When computer networks are breached, incident response (IR) is required to assess the damage, eject the attackers, and improve security measures so attackers cannot return. As part of the Advanced Cybersecurity Certificate, this class covers the IR tools and techniques required to defend modern corporate networks. CSU
Offered Spring semesters

CNIT 153. VMware: Install, Configure, Manage (3)
Lec-52.5 P/NP available
PRERE.: CNIT 106
This hands-on training course explores installation, configuration, and management of VMware products. Upon completion of this course students can take the examination to become a VMware Certified Professional. The course is based on the latest release of VMware software available. CSU
Offered on occasion

CNIT 154. EMC - Information Storage and Management (3)
Lec-52.5 P/NP available
Prereq: CNIT 106
Students will learn about the transition from a Classic Data Center environment to Virtual Data Center and the Cloud virtualization at each layer - compute, storage, network, desktop, and application - along with business continuity in a VDC environment. Students will also learn Cloud computing basics, infrastructure components, service management activities, security concerns, and considerations for Cloud adoption. CSU
Offered on occasion

CNIT 155. AWS Cloud Practitioner (3)
Lec-52.5 P/NP available
This course covers Amazon Web Server Cloud deployment and service models, Cloud infrastructure, and the key considerations in migrating to Cloud computing. This course also provides the required technology essentials across all domains including server, storage, networking, applications, and databases to help develop a strong understanding of virtualization and Cloud computing technologies. CSU
Offered on occasion

CNIT 160. Cybersecurity Responsibilities (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 120
Explores security technology, risks, countermeasures, and consequences, to help cybersecurity analysts protect those who rely on them. Includes hands-on activities such as packet analysis, exploiting vulnerable systems, and password cracking, and also research, presentations, and debates about current controversies, laws, and policies. Addresses topics such as surveillance, cyberwar, and computer crime. CSU
Offered Spring semesters

CNIT 170. Introduction to Cloud Computing (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 103; CNIT 131; CNIT 106
Technical Cloud infrastructure skills that can be applied to a variety of Cloud vendors and technologies. Configuration and deployment, security, maintenance, management and troubleshooting of Cloud systems. Follows the objectives of the CompTIA Cloud+ certification exam and is a required course for the Cloud Administration Certificate of Achievement. CSU

CNIT 182. Hacking and Securing Automotive Systems (3)
Lec-52.5 P/NP available
Prereq: CNIT 131 and AUTO 50
Students will learn about cybersecurity threats to computer systems and embedded software in modern vehicles. Topics include vulnerabilities of communications over the vehicle CAN bus and between devices and systems. Students will learn to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines and flood communication. Part of a joint program offering between AUTO and CNIT. CSU

CNIT 195. Web Development Capstone (3)
Lec-52.5, field trips P/NP available
Recommended Prep: CS 130B or CS 231 or CS 150A or CS 232 or CNIT 133 or CS 110B or CS 111B
Develop, design and program a professional web application or web site project in a team environment. Set professional social media profile and e-portfolio and learn about tools used in web application projects to work on realistic projects. CSU
Offered on occasion

CNIT 197. Internship and Work Experience (1)
Work-60-75
Prereq: Approval of the CNIT Department
Recommended Prep: Completion of 9 units of CNIT courses
Repeat: Repeated up to 8.00 Units
Supervised on- or off-campus work involving computer use. Internships are joint ventures between institutions or companies and the Computer Networking and Information Technology Department. Students must be employed in any area including, but not limited to, help desk, hardware technician, networking technician, system administration, internet, web development, or computer operation. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU

CNIT 198. Internship and Work Experience (2)
Work-120-150
Prereq: Approval of the CNIT Department
Recommended Prep: Completion of 9 units of coursework in CNIT
Repeat: Repeated up to 8.00 Units
Supervised on- or off-campus work involving computer use. Internships are joint ventures between institutions or companies and the Computer Networking and Information Technology Department. Students must be employed in any area including, but not limited to, help desk, hardware technician, networking technician, system administration, internet, web development, or computer operation. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU

CNIT 201C. Introduction to Cisco Networks (3)
Lec-52.5
Prereq: CNIT 100
Architecture, structure, functions, components, and models of the Internet and other computer networks. Use of OSI and TCP layered models to examine protocols and services. IP addressing and subnetting. Fundamentals of Ethernet concepts, media, and operations. First course of Cisco Networking Academy Exploration series preparing for CCENT and CCNA Certifications. CSU

CNIT 202C. Routing and Switching Essentials (3)
Lec-52.5
Recommended Prep: CNIT 201C
Architecture, components, and operations of routers and switches in a small network. Configure router and switch for basic functionality. Troubleshoot and resolve common issues with RIPvl, RIPv2, single-area OSPF, virtual LAN, and inter-VLAN routing in IPv4 and IPv6 networks. Second course in Cisco Networking Academy towards CCENT and CCNA Certifications. CSU
Offered Spring semesters

CNIT 203C. Scaling Networks (3)
Lec-52.5
Prereq: CNIT 202C
Architecture, components, and operations of routers and switches in larger and more complex networks. Configuration and troubleshooting of routers and switches for advanced functionality with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. Knowledge and skills needed to implement a WLAN in a small-to-medium network. CSU
Offered Fall semesters

CNIT 204C. Connecting Networks (3)
Lec-52.5
Prereq: CNIT 202C
Recommended Prep: CNIT 203C
WAN technologies and network services required by converged applications in a complex network. Selection criteria of network devices and WAN technologies to meet network requirements. Configuration and troubleshooting of network devices with data link protocols. Implementation of virtual private network (VPN) operations in a complex network. CSU
Offered Fall semesters

CNIT 205C. CCNA Security (3)
Lec-52.5 P/NP available
Prereq: CNIT 201C; Completion of or concurrent enrollment in: CNIT 202C
Cisco Certified Network Associate (CCNA) Security provides the knowledge and skills needed to prepare for entry-level security specialist careers. CCNA Security aims to develop an in-depth understanding of network security principles as well as the tools and configurations required to secure a network. Preparation for the CCNA-Security certification exam. CSU
Offered on occasion

CNIT 214. Internet of Things (3)
Lec-52.5 P/NP available
Prereq: CNIT 106 or CNIT 201C
Introduction to the Internet of Things (IoT), where people, processes, things, and data are connected via emerging Internet technologies. A variety of networking and computer hardware devices will be integrated into end-to-end systems to solve practical problems. CSU
Offered on occasion

CNIT 216. Internet of Things Security (3)
Lec-52.5 P/NP available
Prereq: CNIT 214
Model and protect against threats to the Internet of Things (IoT) environment of an organization or workplace. Learn foundational knowledge in security analysis such as vulnerability and risk assessment of IoT systems. Perform threat modeling activities on physical devices, communication systems and applications found in the IoT. CSU

CNIT 401. Windows 10 Technical Support (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 101
Knowledge, skills and hands-on experience to install, configure, and maintain Windows 10 Operating system. Course aligned with the Microsoft Certification Certificates. CSU
Offered Fall semesters

CNIT 415. SQL Server Administration (3)
Lec-52.5
This advanced course overs the SQL Server database management system. Students will gain the knowledge and skills to install, configure, and maintain SQL Server and manage the day-to-day administration of a client/server database in an enterprise network environment. CSU
Offered on occasion

CNIT 416. Installing and Configuring Windows Server 2016 (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 103; Completion of or concurrent enrollment in: CNIT 106
This course introduces the new line of servers by Microsoft. It provides students with the knowledge and skills required to install and configure Windows 2016 core infrastructure services. This course is aligned with the Microsoft Certified System Administrator 70-740. CSU
Offered Spring semesters

CNIT 417. Administering Windows Server 2016 (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 416
This course introduces the new line of servers by Microsoft. It provides students with the knowledge and skills required to administer Windows core infrastructure services. This course is aligned with the Microsoft Certified System Administrator exam. CSU
Offered Fall semesters

CNIT 418. Identity With Windows 2016 (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 417
This course provides the knowledge and skills required to administer advanced Microsoft servers. The students acquire hands-on knowledge of real world experience to become IT administrators. This course is aligned with the Microsoft Certifications exams on configuring advanced server services. CSU
Offered Spring semesters

CNIT 420. Configuring and Administering Microsoft Azure (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 101 or CNIT 416
Azure administrator skills training needed to be successful deploying Software-as-a-Service (Saas), Infrastructure-as-a-Service (IaaS), and Platform-as-a-Service (PaaS) solutions. Includes training in planning IaaS solutions for fault tolerance and performance, deployment of Virtual Machines (VMs), and systems management using Windows Powershell and the Azure CLI V2. CSU

CNIT 501. Certified Information Systems Auditor (3)
Lec-52.5 P/NP available
Prereq: CNIT 120
Preparation for the Certified Information Systems Auditor (CISA) credential. This field includes information systems audit, governance, life cycle, system implementation, protecting information assets, business continuity, and disaster recovery. CSU
Offered on occasion

Computer Science

Office: Batmale 456
Phone Number: (415) 239-3655
Web Site: *www.ccsf.edu/cs*

Announcement of Curricula

General Information

The Computer Science Department offers courses in computer programming, databases, and Unix/Linux system administration. We have transfer and degree programs, as well as certificate programs. Our courses range from entry-level to professional development.

Computer Science Major (AS)

Graduates of the associate's degree program in computer science will have the skills in computer programming required for transfer to California State University, University of California, and other universities for career paths in computer science, software engineering, computer engineering, and related fields. The curriculum includes instruction in the fundamentals of problem-solving and analysis, programming, data structures, and computer architecture.

Students who complete the Associate Degree in Computer Science are encouraged to continue their education and earn a bachelor's degree. Students who are interested in transferring after completion of this degree program should consult the "Transfer Information" section of the catalog and discuss their plans with their program advisor or counselor. To not duplicate course work, it is recommended that students try to satisfy the requirements of the transfer institution as well as those of City College. To substitute another class because of specific requirements of the transfer institution, consult with the Computer Science Department Chair.

Universities may have additional or different lower-division course requirements before transfer. Students need to check the particular institution for their requirements. Students should pay particular attention to which programming series they take (CS 110B + 110C or CS 111B + 111C), as different universities may prefer or require one series over the other. The website ***www.assist.org*** can provide information about applicable courses for transfer to satisfy degree requirements. Some universities will require math and/or physics classes beyond those required here, and those additional classes can be taken at CCSF.

Learning Outcomes

Upon completion of this program, students will be able to:

- Create and program algorithmic solutions to solve problems.
- Solve mathematical problems using discrete math and calculus.
- Create assembly language programs and describe how such programs are carried out by the CPU.

Recommended preparation. Math 60 or equivalent knowledge of Algebra; ENGL 88, ESL 188, or readiness for college level English; CS 10, CS 110A, or equivalent knowledge of programming.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Computer Science

Course	Units
Programming fundamentals requirement choose one of the following courses:	
CS 110B Programming Fundamentals: C++	4.0
CS 111B Programming Fundamentals: Java	4.0
Data structures and algorithms requirement choose one of the following courses:	
CS 110C Data Structures and Algorithms: C++	4.0
CS 111C Data Structures and Algorithms: Java	4.0
Computer architecture and assembly programming requirement:	
CS 270 Computer Architecture with Assembly Language	4.0
Required math courses:	
MATH 110A Calculus I	5.0
MATH 110B Calculus II	5.0
MATH 115 Discrete Mathematics	3.0
The following courses are NOT required for the AS degree. They are examples of common requirements for students hoping to transfer to a 4-year school with a major in computer science. Please see a counselor regarding requirements for the institution to which you wish to transfer.	
PHYC 4A Classical Mechanics for Scientists and Engineers	3.0
PHYC 4AL Mechanics Laboratory for Scientists and Engineers	1.0
PHYC 4B Electromagnetism for Scientists and Engineers	3.0
PHYC 4BL Electromagnetism Laboratory for Scientists and Engineers	1.0
MATH 110C Calculus III	5.0
Total:	**25.0**

Certificate Curricula

The certificate programs are designed to meet the needs of students who want 1) to obtain entry-level employment, 2) to increase their opportunities to advance in their current positions, or 3) to change the kind of work they do currently. Certificate programs make it possible for a student to demonstrate specialization in the areas such as computer programming, databases, and Unix/Linux system administration.

Requirements for the Certificate of Accomplishment or Achievement. A student may obtain the Certificate of Accomplishment or Achievement by completing each of the courses offered in the certificate program with a grade of "C" or higher.

Many certificate programs are available. Each program prepares a student for a different career path. Additional information is available from the Department degree advisor or the Department Chairperson.

Android App Programming Certificate

This certificate is designed to teach students how to program native apps (mobile device applications) to run on Android phones and tablets. Students learn programming in Java and Kotlin, including the specifics of how to program for Android devices, as well as best practices regarding data structures and algorithms, and Linux system utilities. Students completing this certificate program will be qualified for employment as entry-level app developers.

Learning Outcomes

Upon completion of this program, students will be able to:

- IAnalyze problems and interpret technical specifications to create and program appropriate algorithmic solutions.
- IWrite Linux commands to manipulate directories, their contents, and permissions.
- ICreate Java programs with graphical user interfaces.
- IImplement applications that utilize the distinctive capabilities of Android.
- IOperate effectively within a team, gaining work experience.
- IEvaluate and implement data structures and algorithms for given problems, considering appropriateness and efficiency.

Students who have never done any programming are advised to take CS 110A before beginning this program.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Android App Programming

Course	Units
Required	
CS 160A Introduction to Unix/Linux	2.0
CS 111B Programming Fundamentals: Java	4.0
CS 111C Data Structures and Algorithms: Java	4.0
CS 211S Advanced Java: Standard Edition	3.0
CS 211D Android Programming	3.0
Choose one of the following courses	
CS 177 Software Engineering	3.0
CS 195 Software Development Practicum	3.0
CS 198 Industry Internship	1.0 – 4.0
CNIT 197 Internship and Work Experience	1.0
CNIT 198 Internship and Work Experience	2.0
Total:	**17.0 – 20.0**

Build Automation for DevOps & QA Certificate

The program of study for the certificate in Build Automation for DevOps & QA will give students a solid grounding in the automation of software quality assurance testing (QA), as well as systems to build and release software. Students will learn the fundamentals of working in a Linux environment, writing shell scripts and automation scripts using Ruby or Python, and Software Engineering principles. This course of study prepares students for entry-level positions in DevOps, Software QA and/or Build and Release Automation.

Learning Outcomes

Upon completion of this program, students will be able to:

- Write Unix/Linux commands to manipulate the contents and permissions of files and directories.
- Analyze common text processing and system tasks and interpret technical specifications to create object-oriented algorithmic solutions that use common control and data structures.
- Implement and test software thoroughly and methodically in a team environment.
- Implement and run continuous integration tests and regression tests to verify specific functionalities in a repository.
- Manage version tags and branches to build specific software versions.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Build Automation for DevOps & QA

Course	Units
Required courses:	
CS 160A Introduction to Unix/Linux	2.0
CS 160B Unix/Linux Shell Scripting	2.0
CS 177 Software Engineering	3.0
CS 178 Build Automation for DevOps & QA.	3.0
Choose one of the following courses:	
CS 131B Programming Fundamentals: Python	4.0
CS 132A Ruby Programming	3.0
CNIT 133 JavaScript, jQuery, AJAX	3.0
Total:	**13.0 – 14.0**

Computer Programming: C++ Certificate

The program of study for the certificate in Computer Programming: C++ includes instruction and practice in the programming language C++, use of the Linux operating system, and a broader context of computer architecture, parallel programming, shell scripting, or database queries. This course of study prepares students for entry-level positions in software quality assurance, computer programming, and related fields.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze problems and interpret technical specifications to create and program appropriate algorithmic solutions, utilizing the most appropriate features of C++.
- Compare and contrast algorithms for efficiency.
- Predict the results of code using standard data structures with associated algorithms.
- Write Linux/Unix commands to manipulate files, directories, their contents and their permissions.
- Program within a specialized context: write programs that use more than one thread, process or task concurrently to solve a problem, selecting data structures that maintain integrity under concurrent access; design computer circuits and implement code in assembly language; write multiple table database queries in SQL; or write shell scripts to accept command-line arguments and capture program output.
- Operate effectively within a team, gaining work experience.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Computer Programming: C++

Course	Units
Required	
CS 110B Programming Fundamentals: C++	4.0
CS 110C Data Structures and Algorithms: C++.	4.0
CS 160A Introduction to Unix/Linux	2.0
Choose one of the following courses	
CS 280 Introduction to Parallel and Cloud Programming	4.0
CS 270 Computer Architecture with Assembly Language	4.0

CS 150A Introduction to SQL Databases and NoSQL . . . 3.0
CS 160B Unix/Linux Shell Scripting 2.0

Choose one of the following courses
CS 195 Software Development Practicum 3.0
CS 177 Software Engineering 3.0
CS 198 Industry Internship . . . . . 1.0 – 4.0
CNIT 197 Internship and Work Experience 1.0
CNIT 198 Internship and Work Experience 2.0

Total: . . . . . 13.0 – 18.0

Computer Programming: Java Certificate

The program of study for the certificate in Computer Programming: Java includes instruction and practice in the Java programming language including database interaction, as well as software engineering practices. This course of study prepares students for entry-level positions in quality assurance and computer programming in a variety of settings.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze problems and interpret technical specifications to create and program appropriate algorithmic solutions, utilizing the most appropriate features of Java.
- Write Java code for array-based and linked data structures that work with generics.
- Compare and contrast algorithms for efficiency.
- Predict the results of code using standard data structures with associated algorithms.
- Write Linux/Unix commands to manipulate files, directories, their contents and their permissions.
- Write multiple table database queries in SQL.
- Operate effectively within a team, gaining work experience.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Computer Programming: Java

Course . . . . . Units
Required
CS 111B Programming Fundamentals: Java 4.0
CS 111C Data Structures and Algorithms: Java 4.0
CS 160A Introduction to Unix/Linux 2.0
CS 211S Advanced Java: Standard Edition 3.0

Choose one of the following courses
CS 150A Introduction to SQL Databases and NoSQL . . . 3.0
CS 211E Advanced Java: Enterprise 3.0

Choose one of the following courses
CS 195 Software Development Practicum 3.0
CS 177 Software Engineering 3.0
CS 198 Industry Internship 1.0 4.0
CNIT 197 Internship and Work Experience 1.0
CNIT 198 Internship and Work Experience 2.0

Total: . . . . . 17.0 – 20.0

Data Analytics Fundamentals Certificate

This certificate provides an introduction to data analytics and technical computing skills. Students learn the basics of working in a Unix or Linux environment, basic programming techniques using Python, database fundamentals using SQL, data visualization techniques, statistics, and machine learning tools.

Learning Outcomes

Upon completion of this program, students will be able to:

- Write Unix commands to manipulate directories, their contents, and permissions.
- Create regular expressions to perform pattern matching.
- Analyze common text processing tasks and interpret technical specifications to create and program algorithmic solutions.
- Write multiple table database queries in SQL.
- Access and analyze data to produce information visualizations and discover patterns.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Data Analytics Fundamentals

Course . . . . . Units
Required Courses
MATH 108 Foundations of Data Science 5.0
CS 150A Introduction to SQL Databases and NoSQL . . . 3.0
CS 160A Introduction to Unix/Linux 2.0
CS 131B Programming Fundamentals: Python 4.0
CS 256 Data Visualization 3.0

Total: 17.0

Database Administration Certificate

This certificate includes instruction and practice in interacting with and administering SQL databases. It prepares prospective entry-level database administrators. It can also prepare students for an industry SQL administration certification exam.

Learning Outcomes

Upon completion of this program, students will be able to:

- Design and create queries in SQL for accessing and updating data.
- Develop and test procedural and transactional MySQL routines.
- Manage SQL database user accounts, network access, performance, and backup.
- Write shell scripts to accept command-line arguments and capture program output.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Database Administration

Course . . . . . Units
Required
CS 150A Introduction to SQL Databases and NoSQL . . . 3.0
CS 155P MySQL Programming 3.0
CS 160A Introduction to Unix/Linux 2.0
CS 160B Unix/Linux Shell Scripting 2.0

Choose one of the following courses
CS 155B MySQL Database Administration 3.0
or CNIT 415 SQL Server Administration 3.0

Total: 13.0

Databases for Developers Certificate

This certificate includes instruction and practice in database fundamentals and interacting with databases using both SQL queries and procedural programming. It is designed to prepare prospective developers to use databases in their work. It is recommended for students also looking to pursue a bachelor's degree or master's degree in computer science or a related field.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze a problem and interpret technical specifications to create and program appropriate algorithmic solutions.
- Design and create queries in SQL for accessing and updating data.
- Write commands to navigate and manipulate files, directories, and text in a Unix environment.
- Write programs that interact with databases and/or structure databases to interact with programs.
- Operate effectively and professionally in a software development team environment.

Students who have never done any programming are advised to take CS 110A before beginning this program.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester. Some combinations of courses for this certificate may require additional course units to meet course requisites.

Courses Required for the Certificate of Achievement in Databases for Developers

Course	Units
Required	
CS 150A Introduction to SQL Databases and NoSQL	3.0
CS 155P MySQL Programming	3.0
CS 160A Introduction to Unix/Linux	2.0
Choose one of the following courses	
CS 111B Programming Fundamentals: Java	4.0
CS 131B Programming Fundamentals: Python	4.0
Choose one of the following courses	
CS 231 Advanced Python Programming	3.0
CS 211E Advanced Java: Enterprise	3.0
Choose one of the following courses	
CS 177 Software Engineering	3.0
CS 195 Software Development Practicum	3.0
CNIT 197 Internship and Work Experience	1.0
CNIT 198 Internship and Work Experience	2.0
Total:	**16.0 – 18.0**

Game and Simulation Programming Certificate

The Game and Simulation Programming certificate prepares students for careers as video game developers and programmers of simulations, using some of the most popular gaming languages/platforms: C++, C#, and Unity. Students will learn about game design and the game industry, C++ programming including data structures and algorithms, and programming simulations and games in Unity using C#. Students will have a foundation of algebra and physics to better simulate real-world situations and behaviors.

Learning Outcomes

Upon completion of this program, students will be able to:

- Design and implement modular programs using modern features of C++.
- Evaluate and implement data structures and algorithms for given problems, considering appropriateness and efficiency.
- Utilize the Unity game engine and integrated development environment (IDE) to the creation of games.
- Simulate real-world situations and behaviors.
- Operate effectively within a team, gaining work experience.

Students who have never done any programming are advised to take CS 110A before beginning this program.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Game and Simulation Programming

Course	Units
Required	
CS 185 Exploring Game Worlds.	3.0
CS 110B Programming Fundamentals: C++	4.0
CS 110C Data Structures and Algorithms: C++.	4.0
CS 214U Game and Simulation Programming in Unity	4.0
MATH 90 Precalculus Algebra	5.0
or MATH 90 Precalculus Algebra	5.0
and MATH 90S Support for Precalculus Algebra	3.0
or placement into MATH 100A or 110A	
Choose one of the following courses	
PHYC 2A Introductory Physics I	3.0
PHYC 4A Classical Mechanics for Scientists and Engineers	3.0
Choose one of the following courses	
CS 177 Software Engineering	3.0
CS 195 Software Development Practicum	3.0
CS 198 Industry Internship	1.0 – 4.0
CNIT 197 Internship and Work Experience	1.0
CNIT 198 Internship and Work Experience	2.0
Total:	**24.0 – 35.0**

iPhone App Programming Certificate

This certificate teaches how to program native apps (mobile device applications) to run on iPhones, iPads, and other iOS devices. Students learn programming in Swift, and also programming of data structures and algorithms in Java or C++. The specifics of how to program for iPhones is covered, as well as substantial project experience. Students completing this certificate program will be qualified for employment as entry-level app developers and quality assurance technicians.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze a problem and interpret technical specifications to create and program appropriate algorithmic solutions.
- Develop and test Swift classes and protocols, interfacing with Web APIs.
- Extend User Interface Kit (UIKit) classes to create custom view controllers.
- Create working iPhone applications that utilize the distinctive capabilities of iOS.

- Compare and contrast algorithms for efficiency.
- Predict the results of code using standard data structures with associated algorithms.
- Operate effectively within a team, gaining work experience

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in iPhone App Programming

Course	Units
Choose one of the following Programming Fundamentals courses:	
CS 112 Beginning iPhone Programming using Swift	4.0
CS 110B Programming Fundamentals: C++	4.0
CS 111B Programming Fundamentals: Java	4.0
Required capstone course:	
CS 212 iPhone Programming	4.0
Choose one of the following Data Structures & Algorithms courses:	
CS 110C Data Structures and Algorithms: C++	4.0
CS 111C Data Structures and Algorithms: Java	4.0
Choose one of the following Internship/Project Experience courses:	
CS 177 Software Engineering	3.0
CS 195 Software Development Practicum	3.0
CS 198 Industry Internship	1.0 – 4.0
CNIT 197 Internship and Work Experience	1.0
CNIT 198 Internship and Work Experience	2.0
Total:	**13.0 – 16.0**

Linux Administration Certificate

The program of study for this certificate in Linux Administration will give students the skills needed to install and configure a basic Linux server in a networked environment. Besides basic command-line use, students will learn intermediate-level Linux administration skills including configuring and managing file systems, configuring and monitoring basic system security, and configuring default servers. It is designed to prepare students for entry-level positions in Linux Administration.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze common text processing tasks and write Unix commands to solve them.
- Design and implement bash shell scripts to solve administrative tasks.
- Analyze a Linux system and revise its configuration to solve issues of performance, security, connectivity, and availability of services.
- Configure default NFS, ftp, and http servers and the firewall and SELinux settings to access them.
- Install entire physical or virtual machines with custom physical file systems and logical volumes.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Linux Administration

Course	Units
Required courses:	
CS 160A Introduction to Unix/Linux	2.0
CS 160B Unix/Linux Shell Scripting	2.0
CS 260A Linux System Administration	4.0
Total:	**8.0**

Web Application Programming Certificate

The program of study for the certificate in Web Application Programming will give students a solid grounding in full-stack open source web development skills. Students will learn the fundamentals of: working in a Linux environment; developing front-end web pages using HTML and JavaScript; using SQL databases; and server-side programming techniques using Ruby, PHP, Python, ASP.NET and/or Java. This course of study prepares students for entry-level positions developing web applications.

Learning Outcomes

Upon completion of this program, students will be able to:

- Write Unix/Linux commands including redirection and pipes, to manipulate files, directories, their contents and their permissions.
- Create regular expressions to perform pattern matching.
- Analyze a problem and interpret technical specifications to create and program algorithmic solutions.
- Write multiple table database queries in SQL.
- Create, build, and publish interactive Web pages using HTML and JavaScript.
- Write object-oriented server-side web site programs that interact with databases.
- Operate effectively within a team, gaining work experience.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester. Students who have never done any programming are advised to take CS 110A before beginning this program.

Courses Required for the Certificate of Achievement in Web Application Programming

Course	Units
Required	
CS 160A Introduction to Unix/Linux	2.0
CNIT 132 Intermediate HTML and CSS	3.0
CNIT 133 JavaScript, jQuery, AJAX	3.0
CS 150A Introduction to SQL Databases and NoSQL	3.0
Choose one of the following courses	
CS 111B Programming Fundamentals: Java	4.0
CS 131B Programming Fundamentals: Python	4.0
CS 132A Ruby Programming	3.0
CS 130A PHP Programming	4.0
Choose one of the following courses	
CS 211E Advanced Java: Enterprise	3.0
CS 231 Advanced Python Programming	3.0
CS 232 Ruby on Rails Development	3.0
CS 130B Advanced PHP Programming	3.0
CNIT 134 Server Side Technologies for the Web	3.0
Choose one of the following courses	
CS 195 Software Development Practicum	3.0
CS 177 Software Engineering	3.0
CS 198 Industry Internship	1.0 – 4.0
CNIT 197 Internship and Work Experience	1.0
CNIT 198 Internship and Work Experience	2.0
Total:	**18.0 – 22.0**

Announcement of Courses

Credit, Degree Applicable Courses:

CS 10. Introduction to Computer Science (4)
Lec-70 P/NP available
Prereq: Intermediate algebra or higher
Recommended Prep: Readiness for college-level English or ESL 188
Broad introduction to fundamental concepts in computer science. Investigate how computers store and transmit information, how to solve problems with computers by designing and implementing algorithms, and how computing fits into larger social issues. CSU
Elective offered at the department's discretion

CS 110A. Intro to Programming (4)
Lec-70
Recommended Prep: Intermediate Algebra or higher
Introduction to computer programming and problem solving. No prior programming experience required. Course concepts include: problem solving techniques, algorithms, program design, control structures, functions, and arrays. UC/CSU
C-ID COMP 112
Offered every semester

CS 110B. Programming Fundamentals: C++ (4)
Lec-70
Recommended Prep: CS 10 or CS 110A or MATH 108
This course covers programming fundamentals using the C++ language, using procedural and object-oriented approaches to problem solving. Topics include structured elements, classes, objects, references, dynamic memory allocation, inheritance, polymorphism, arrays, pointers, files, design and implementation of abstract data types, in numerical and non-numerical applications. UC/CSU
C-ID COMP 122
Offered Fall and Spring semesters

CS 110C. Data Structures and Algorithms: C++ (4)
Lec-70
Prereq: CS 110B
The analysis and design of computer algorithms and their underlying data structures. Analysis of the timing and efficiency of algorithms. Study of lists, stacks, queues, trees, backtracking, searching, sorting and recursion. Introduction to graphs, hash tables, heaps, priority queues and direct access files. Further study of abstract data types and object-oriented programming. UC/CSU
C-ID COMP 132
Offered Fall and Spring semesters

CS 111B. Programming Fundamentals: Java (4)
Lec-70
Recommended Prep: CS 10 or CS 110A or MATH 108
This course covers programming fundamentals using the Java language, emphasizing an object-oriented approach to problem solving. Topics include classes, objects, references, dynamic memory allocation, inheritance, polymorphism, arrays, files, design and implementation of abstract data types, in numerical and non-numerical applications. UC/CSU
C-ID COMP 122
Offered Fall and Spring semesters

CS 111C. Data Structures and Algorithms: Java (4)
Lec-70
Prereq: CS 111B.
The analysis and design of computer algorithms and their underlying data structures. Analysis of the timing and efficiency of algorithms. Study of lists, stacks, queues, trees, backtracking, searching, sorting and recursion. Introduction to graphs, hash tables, heaps, priority queues and direct access files. Further study of abstract data types and object-oriented programming. UC/CSU
C-ID COMP 132
Offered Fall and Spring semesters

CS 112. Beginning iPhone Programming using Swift (4)
Lec-70 P/NP available
This course provides a hands on, project based curriculum for first-time programmers to learn the very basics of computer programming using the Swift language. Students will learn how to use variables, basic logic, and simple Object Oriented Programming to create working apps. CSU
Elective offered at the department's discretion

CS 130A. PHP Programming (4)
Lec-70 P/NP available
Recommended Prep: CNIT 132 or demo of exit skills; and CS 110A or 111A or similar programming experience
Introduction to the open source Web scripting language PHP. Build dynamic Web applications. Semantics and syntax of the PHP language, including discussion on the practical problems that PHP solves. Write server-side cross-platform HTML-embedded scripts to implement dynamic Web pages that interact with databases and files. CSU
Elective offered at the department's discretion

CS 130B. Advanced PHP Programming (3)
Lec-52.5 P/NP available
Recommended Prep: CS 130A
This class covers using PHP for database connectivity to build scalable, dynamic websites. Assignments emphasize using PHP for user authentication, site personalization, content management, session tracking, and user-driven database updating. Class project demonstrates using PHP and a database (MySQL) to build a scalable, object oriented, template-based web application. CSU
Offered on occasion Elective offered at the department's discretion

CS 131B. Programming Fundamentals: Python (4)
Lec-70 P/NP available
Recommended Prep: CS 10 or CS 110A or MATH 108
This course covers programming fundamentals using the Python language. Python is interpreted, interactive, and object-oriented. Recommended for general-purpose programming, system administration, or web programming. Topics include classes, objects, inheritance, polymorphism, design and implementation of abstract data types, dictionaries, lists, list comprehensions, files, modules, and mutable and immutable types. UC/CSU
Formerly CS 131A
Offered Fall and Spring semesters

CS 132A. Ruby Programming (3)
Lec-52.5 P/NP available
Recommended Prep: CS 110A or CS 130A or CS 160B or 160B
Ruby is interpreted, interactive, and object-oriented. Recommended for general-purpose programming, system administration, or web programming with the Ruby on Rails web framework. Write stand-alone programs that perform tasks including interfacing or system calls and libraries, processing text using regular expressions, and retrieving information from web sites. CSU
Elective offered at the department's discretion

CS 142. Programming Techniques for XML (3)
Lec-52.5 P/NP available
Recommended Prep: CS 110A or CS 130A or CS 131B or CS 132A or CS 160B
Programming techniques for processing XML data. Comparison of programming approaches, including SAX, SAX-like, and DOM interfaces. Navigating, filtering, and modifying XML. Transformation of XML data. Use of XML with databases and serialization. CSU
Elective offered at the department's discretion

CS 150A. Introduction to SQL Databases and NoSQL (3)
Lec-52.5 P/NP available
A course in the use of SQL database management systems to create, query, and update database tables. The course covers both the syntax and the logic of the major features of the SQL language. It also covers a brief overview of NoSQL (Not Only SQL) data sources such as JSON and MongoDB. CSU
Offered every semester

CS 155B. MySQL Database Administration (3)
Lec-52.5 P/NP available
Recommended Prep: CS 150A and CS 160B
Students install and configure a MySQL server and create and manage user accounts. Issues pertaining to optimization, security, privileges, tuning, troubleshooting, and performing upgrades are studied and practiced. CSU
Elective offered at the department's discretion

CS 155P. MySQL Programming (3)
Lec-52.5 P/NP available
Recommended Prep: CS 150A
An advanced course in the use of MySQL techniques to process database objects. Design and develop MySQL program units: stored procedures, functions, and database triggers. Work with dynamic SQL and with XML data. CSU
Offered Spring semesters

CS 160A. Introduction to Unix/Linux (2)
Lec-35 P/NP available
Introduction to using the Unix/Linux operating system. Unix/Linux file management and common text processing utilities including searching. UC/CSU
Offered Fall and Spring semesters

CS 160B. Unix/Linux Shell Scripting (2)
Lec-35 P/NP available
Recommended Prep: CS 160A
Analyze, design, write, test, and debug shell scripts. Students learn basic shell scripting techniques and develop scripting skills needed for Unix/Linux System Administration courses. The bash shell is used. UC/CSU
Offered Fall and Spring semesters

CS 177. Software Engineering (3)
Lec-52.5 P/NP available
Recommended Prep: Some programming experience
Introduction to principal software engineering processes and pitfalls. Focus on users, development methodologies, testing, and tools. Use of techniques including version control, functional specification, Agile and Test-Driven Development. UC/CSU
Offered Fall and Spring semesters

CS 178. Build Automation for DevOps & QA (3)
Lec-52.5, Lab-17.5 P/NP available
Recommended Prep: CS 132A and CS 177 and CS 260A
Development and Operations (DevOps) is the use of build automation tools to automate provisioning, configuration, monitoring, and management of data centers and networks. These same tools are used to automatically build and test software for Quality Assurance (QA). Design tests and use tools like Jenkins to execute planned systematic actions that provide confidence in a software product under development, and its infrastructure. CSU
Elective offered at the department's discretion

CS 185. Exploring Game Worlds (3)
Lec-52.5 P/NP available
Recommended Prep: VMD 105
Utilizing Unity game engine and a range of additional tools, this course is an introduction to the career opportunities in the games industry. Students will learn how individual games are made, distributed, and sold both via physical media and online. Also examined are virtual reality and augmented reality. CSU
Formerly VMD 180
Elective offered at the department's discretion

CS 186. XR: Games, Virtual and Augmented Reality using Unity (3)
Lec-52.5, field trips P/NP available
Recommended Prep: CS 185; VMD 166
Develops fundamental skills in the use of the Unity 3D game engine to develop games and X Reality (XR or Cross Reality), including virtual reality, augmented reality and simulations or 'experiences'. Students will design independently and as part of a team. Also covers workflow itself - time and resource management, planning and production strategies for entertainment products. CSU
Formerly VMD 182
Elective offered at the department's discretion

CS 195. Software Development Practicum (3)
Lec-52.5, field trips P/NP available
Recommended Prep: CS 177 or CS 131B or CS 111B or CS 110B or CS 132A or CS 130A or CS 150A
Integrate and apply knowledge gained through CCSF coursework in a team-based environment, collaborating with students in Visual Media Design's VMD 200A/B: Design Studio Practicum. Work on realistic projects with input invited from local employers. Develop, design and program a professional software project in a team environment. CSU
Elective offered at the department's discretion

CS 197P. Technical Interview Preparation (1)
Lec-17.5 P/NP only
Prereq: Completion of or concurrent enrollment in: CS 110C or CS 111C
Preparation for programming job interviews: problem-solving and algorithm questions solved on a white board or online chat, approaches to technical interviews, and solving common kinds of problems. Requires prior experience programming Data Structures and Algorithms in C++, Java, or similar. CSU
Elective offered at the department's discretion

CS 197V. Version Control and Online Code Repositories (1)
Lec-17.5 P/NP only
Recommended Prep: CS 10 or MATH 108 or prior programming experience
Using version control software such as Git and online code repositories such as GitHub. Use these systems for team collaboration in

software development, and to present work online as a portfolio for job applications. Set up an online code repository as a portfolio for employers to assess what kind of programming experience an applicant has. CSU
Elective offered at the department's discretion

CS 198. Industry Internship (1-4)
Work-60 to 300 P/NP available
Repeat: Repeated up to 9.00 Units
Provides students with the opportunity to earn course and certificate credit for working in the field, in a supervised setting in the ICT/Computer Science industry. Internships include software quality assurance (QA), junior developer, database programmer or administrator, Linux system administrator, etc. CSU
Elective offered at the department's discretion

CS 199. Independent Study (1-3)
Lab-52.5 to 157.5 P/NP available
Recommended Prep: CS 110C or CS 111C or CS 160B or CS 177 or CS 211S or CS 211D or CS 212 or CS 214U or CS 231 or CS 232 or CS 256 or CS 280
Large-scale individual projects in computer science to be defined in cooperation with an instructor/supervisor. The project must be in in an area not covered by other course offerings. The student is responsible for the project definition and completion under the guidance of an instructor/supervisor. CSU
UC upon review
Offered Fall and Spring semesters

CS 211D. Android Programming (3)
Lec-52.5
Recommended Prep: CS 111B
An advanced course in the design and development of applications for mobile devices running the Android operating system. Use the Android SDK and Android Studio to craft user interfaces (UIs) and create applications that make use of web services, long-term storage, user location, and media. CSU
Offered Fall semesters

CS 211E. Advanced Java: Enterprise (3)
Lec-52.5 P/NP available
Recommended Prep: CS 111B and CS 211S
Advanced Java Enterprise Edition covers features of the Java language essential for building network- and web-oriented applications. Topics include networking, Java Database Connectivity (JDBC), Servlets, JavaBeans, JavaServer Pages (JSP), Remote Method Invocation (RMI), JavaScript Object Notation (JSON), and Extensible Markup Language (XML). UC/CSU
Offered Fall semesters

CS 211S. Advanced Java: Standard Edition (3)
Lec-52.5
Prereq: CS 111B
Introduces advanced Java language features and packages that are essential for building Java Standard Edition applications. Topics include object-oriented design, updated Java features, file input and output, exception handling, collections, generics, graphical user interfaces (GUIs), functional programming, reflection, and multithreading. Helps prepare students for industry certification in Java programming. UC/CSU
Offered Fall and Spring semesters

CS 212. iPhone Programming (4)
Lec-70 P/NP available
Recommended Prep: CS 112 or CS 110B or CS 111B
An advanced course in the design and development of iOS applications using Xcode and Swift. CSU
Elective offered at the department's discretion

CS 214U. Game and Simulation Programming in Unity (4)
Lec-70 P/NP available
Prereq: CS 110B or CS 111B
This course provides students with the opportunity to learn computer science concepts in the context of game and simulation development. Data algorithms, behavioral algorithms, memory management, object and class hierarchy, and Unity's architectural pattern will be presented. CSU
Elective offered at the department's discretion

CS 230W. WordPress and Drupal CMS Development (3)
Lec-52.5 P/NP available
Recommended Prep: CS 130A and CNIT 132 and CS 160A
This course introduces students to creating and deploying WordPress and Drupal content management systems (CMS) for web development using custom plug-ins and modules. Topics include WordPress and Drupal core features, APIs, plug-in and module development, architecture, deploying to cloud hosting, PHP performance tuning, data management, and security. CSU
Elective offered at the department's discretion

CS 231. Advanced Python Programming (3)
Lec-52.5 P/NP available
Prereq: CS 131B
Second course in the Python programming language. Covers resources, practices, and modules used by successful Python programmers; functional and imperative programming in Python; debugging and testing; data serialization and use of persistent stores and web services. Students write useful programs demonstrating mastery of these techniques, which are applicable to real world problems. UC/CSU
CS 131A may be used to satisfy the prerequisite. Please contact the Computer Sciences Department for more information.
Offered Fall and Spring semesters

CS 232. Ruby on Rails Development (3)
Lec-52.5 P/NP available
Recommended Prep: CNIT 132 and CS 132A
Developing data driven web applications with Ruby on Rails. Core aspects of the framework including ActiveRecord, HTML with embedded Ruby (ERB), Rails Controller classes, Action Mailer, and application testing. CSU
Elective offered at the department's discretion

CS 256. Data Visualization (3)
Lec-52.5 P/NP available
Prereq: CS 131B or CS 111B or CS 110B
Recommended Prep: MATH 80 or ECON 5 or PSYC 5 or LALS 5 or MATH 108
Access and analyze data and produce information visualizations to discover patterns. Fundamental skills and concepts for data science applicable to scientists, journalists, business people, and database programmers. Requires programming in a language of the student's choice. CSU
Offered Fall semesters

CS 260A. Linux System Administration (4)
Lec-70 P/NP available
Recommended Prep: CS 160B
The administration of a Linux server. Prepares students for industry certification and entry-level employment in system administration. Topics include process control, system monitoring, filesystem preparation and maintenance, logical volumes, basic servers and the firewall, virtual machines, startup and shutdown, user accounts, periodic tasks, security issues, and installations. CSU
Offered Spring semesters

CS 270. Computer Architecture with Assembly Language (4)
Lec-70
Prereq: CS 110B or CS 111B
Recommended Prep: CS 160A
Basic computer organization including the von Neumann architecture, the instruction cycle, parts of a CPU (central processing unit), pipeling, memory hierarchy, and interrupt handling. Representation of numerical and non-numerical data. Translation to assembly code from high-level constructs such as if statements, loops, and function calls. UC/CSU
C-ID COMP 142
Offered Fall and Spring semesters

CS 280. Introduction to Parallel and Cloud Programming (4)
Lec-70, Lab-17.5 P/NP available
Recommended Prep: CS 110B or CS 111B or CS 131B
Programming fundamentals using multiple processors or computers to solve a problem. Mechanics of computation, multi-tasking, multi-threading, and object-oriented approaches to managing many computing elements working on the same problem. Programming for Cloud computation, Big Data access, and highly parallel computing hardware, e.g. multi-core processors and Graphics Processing Units (GPU). CSU
Elective offered at the department's discretion

Construction Trades*

* See Automotive/Motorcycle, Comstruction, and Building Maintenance.

Construction Management*

* See Architecture.

Consumer Education*

* See Health Education.

Counseling Development

Office: MUB 39
Phone Number: (415) 452-5235
Web Site: *www.ccsf.edu/cscd*

Announcement of Course

Credit, Degree Applicable Course:

COUN 105. Student Success Seminar II (.5)
Lec-9 P/NP only
This brief course is intended to help students on third and fourth semester probation re-gain good academic standing. Students develop time management and motivational strategies and learn about college policies, study skills, and student resources. Developing a comprehensive educational plan is key. CSU

Counseling, New Student

Office: Conlan 205
Phone Number: (415) 239-3296
Web Site: *www.ccsf.edu/nscd*

Announcement of Courses

Credit, Degree Applicable Courses:

AAPS 100. Achieving an Academic Attitude (3)
Lec-52.5, field trips P/NP available
Students learn performance/achievement-based tools and competencies to assist in thinking critically about personal development expectations and social contexts. Engage in an action plan for future academic and personal success by understanding topics such as communication, motivation, and cultural competencies. CSU
Offered Fall and Spring semesters

AAPS 101. College Orientation (.5)
Lec-9 P/NP only
Assists students to identify their educational goals and chart their course to achieve success at City College of San Francisco. Topics include college poli cies and procedures, programs and services, expectations and requirements as well as the campus facilities, student's rights and responsibilities. CSU

AAPS 103. Orientation to College Transfer (3)
Lec-52.5 P/NP available
Prereq: Completion of or concurrent enrollment in: ENGL 1A and ENGL 1AS
An overview of the concepts and significance of factors that contribute to college transfer and success in college. Factors to be explored include social awareness, cultural identity, goal setting, educational planning, and college resources. Focus on understanding the college/university systems and on understanding of the relationship of cultural experiences and college success. UC/CSU
Offered Fall semesters

AAPS 104. Student Success Seminar (.5)
Lec-9 P/NP only
This course is intended to help students on academic and/or progress probation to regain good academic standing. Students develop time management and motivational strategies and learn about available college resources to help them reach academic success. Students also learn about academic polices and educational goal options. CSU

Noncredit Course:

AAPS 1111. Orientation to Noncredit Certificate Programs (10 hrs)
Recommended Prep: ESLN 3300 or placement in ESLN 3400 (Beginning High 4)
Introduction to the nature, purpose and application of noncredit studies and programs at City College of San Francisco. Topics include the range and variety of noncredit studies, contrast to credit studies, expectations for noncredit students, and introduction to the college's services for noncredit students' success.

CSU GE-Breadth

Website: *www.ccsf.edu/artic*

Announcement of Curricula

CSU GE-Breadth Certificate

Students who complete the approved California State University General Education-Breadth transfer pattern might be eligible to obtain the Certificate of Achievement in CSU GE-Breadth. Details of

the course requirements and learning outcomes are available in the Transfer Information section of this catalog. Students are strongly encouraged to consult with a counselor for further information.

(See also IGETC Certificate)

Culinary Arts and Hospitality Studies

Office: Statler Wing 156
Phone Number: (415) 239-3152
Web Site: *www.ccsf.edu/cahs*

Announcement of Curricula

The Culinary Arts and Hospitality Studies (CAHS) Department (formerly the Hotel and Restaurant Department) includes both credit and noncredit programs.

Credit, Associate in Science Degree programs are offered with three distinct majors: Culinary Arts Management; Food Service Management; or Hospitality Management. (See below for details about these programs).

Noncredit Certificate Programs. The Culinary and Service Skills Training Certificate Program, and the Baking and Pastry Certificate Program, provide short-term skills training for entry into the labor market and are offered for noncredit (no college credit). (See below for details about these programs).

Credit, Consumer Classes. These classes are offered for college credit and are designed for non-professionals and open to the general public. These courses are not included in the CAHS degree programs.

General Information

History. Established in 1936 as the Hotel and Restaurant Department, this was the first community college program in the United States offering training in hospitality subjects. Since then, thousands of hospitality professionals have graduated from the Program. The department is also supported by our extensive hospitality library, the Alice Statler Library.

Culinary Arts and Hospitality Studies Mission Statement. The Culinary Arts and Hospitality Studies Department at City College of San Francisco is designed to provide students with strong foundational and practical culinary and management skills necessary to succeed in the hospitality industry.

Our Vision. Equally grounded in culinary arts and management, students learn through hands-on culinary, management and academically related classes, to develop real-world skills and knowledge necessary to excel in the food service, restaurant and hospitality industry.

Employment. Graduates find employment in many facets of the hospitality industry including hotels, restaurants, clubs, cafeterias, cruise ships, retirement communities, catering companies, educational institutions and purveyors, to name a few career possibilities.

The jobs that students receive immediately upon graduating varies greatly, depending upon which program they completed, their career goals, and practical experience. Graduates may accept positions such as: line cook, pastry cook, baker, host, food server, hotel reservationist, desk clerk, cashier and night auditor; to entry level management positions, such as: assistant restaurant manager, hotel reservations manager, assistant front office manager, and purchasing agent.

Graduates progress in their careers to such positions as: executive chef, restaurant and hotel general manager, executive pastry chef, concierge, restaurant owner, food and beverage director, garde manger chef, sales manager, bakery owner, catering director, food service director, sous chef, country club manager, hotel director of sales and marketing, director of banquets are a few higher level career possibilities.

Associate in Science Degree Programs

Please visit ***www.ccsf.edu/cahs*** for more information and an application.

Accreditation. The Culinary Arts Management Program and the Food Service Management Program are accredited by The American Culinary Federation. Upon completion of their A.S. degree major, students can apply for a Certificate of Completion from the Accrediting Commission of the American Culinary Federation (ACF). Please see Program Advisor for more information regarding the certificate. For more information about this agency, see the "Overview of the College" section of this Catalog.

Food Safety Managers Certification. As a prerequisite to graduation from the Culinary Arts Management Program, or from the Food Service Management Program, Food Safety Management Certificate, students are required to successfully pass a California food safety certification examination* issued by an accredited food protection manager certification organization (SB602 & Sec 113790 of CA Health & Safety Code).

* e.g.: The National Registry of Food Safety Professionals - Food Safety Manager Certification exam or the ServSafe Food Protection Manager Certification exam, issued by the National Registry of Food Safety Professionals.
* This exam is administered through the CCSF Biology 121 (formerly Microbiology 51) course.

Applicants who have already earned a college degree (A.S./A.A., B.A./B.S., etc.) are still required to fulfill CCSF A.S. degree requirements. Students accepted to one of the CAHS degree programs and are registered in classes, request an "Evaluation of Transferred Credit". Please see CAHS Program Advisor or CCSF Counselor for more information.

Transfer. Students who intend to transfer to four year universities for a baccalaureate degree should consult with our Program Advisor or Counselor for guidance on planning a program to transfer. The degree programs are designed to facilitate transferring to four year universities.

Program Probation Policy. Academic probation occurs when a student fails to maintain a 2.00 cumulative grade point average. Students are removed from probation when their cumulative grade point average is increased to a minimum of 2.50.

Disqualification. Students may be disqualified from the Program for any of the following reasons:

1. Receiving a final grade of "D" or "F" in any of the required major courses.
2. Remaining on probation for two consecutive semesters.
3. Receiving a final grade of "D" or "F" in a laboratory class being repeated, because of receiving an initial grade of "D" or "F".
4. For reasons described in various sections of this catalog.

Students receiving a final grade of "D" or "F" in any of the consecutive laboratory series class (CAHS 10A-B/N-NL, CAHS 20A-B-C, CAHS 30A-B) must confer with the Program Advisor and repeat those classes before progressing to the next class in the sequence.

Culinary Arts Management Program

Introduction. An Associate in Science degree with a major in the Culinary Arts Management is offered to prepare students for a culinary career. This is a two year, four semester course of study. This program

and all of the degree programs include management related course in their respective fields.

This is a rigorous, full time, day program. Students are advised to be well prepared to commit themselves to being in school 8 hours per day, 5 days a week for the duration of the Program. Students who are entering college for the first time usually take five or more semesters to complete the program.

Accreditation. The Culinary Arts Management Program and the Food Service Management Program are accredited by The American Culinary Federation. Upon completion of their A.S. degree major, students can apply for a Certificate of Completion from the Accrediting Commission of the American Culinary Federation (ACF). Please see Program Advisor for more information regarding the certificate. For more information about this agency, see the "Overview of the College" section of this Catalog.

Admission and Applications. Prior to being admitted to Culinary Arts Management Program, applicants must complete the procedure for admission to City College of San Francisco.

When applicants have been admitted to the College, they must also complete the CAHS Department's application form, which may be obtained at the CAHS office located at Statler Wing, Room 156, by calling the office at (415) 239-3152, or by printing the application from our website: ***www.ccsf.edu/cahs*** and mailing it in.

Completed applications must be submitted by the second Monday in November for the following Spring semester and by the second Monday in April for the following Fall semester (unless these dates are displaced by a holiday). Applicants should call (415) 239-3152 for the exact deadline dates for each semester.

Prerequisites:

- Applicants are advised to have ENGL 88 or ESL 186 or placement in ESL 188 or readiness for college-level English; or to have completed ENGL 1A at CCSF or its equivalent at another college.
- A 2.0 grade point average on prior college or high school transcripts is advised.

Note: Applicants who have already earned a college degree (A.S./A.A., B.A./B.S., etc.) are required to fulfill CCSF A.S. degree requirements. Students should request an "Evaluation of Transfer Credit" after they are registered in classes and accepted to one of the CAHS degree programs. Please see Program Advisor or CCSF Counselor for more information.

Students are required to confer with the Program Advisor as to the specific classes necessary to complete their program and the order in which courses should be taken. Laboratory classes are restricted to program majors.

Costs. In addition to the current applicable tuition, fees, books, and other such college expenses, students will need to purchase uniforms,kitchen tools, and material fees at an approximate cost of $575.00 (a one-time cost).

Course of Study. Students must take a core group of courses. Students in the Culinary Arts Management Program must take sequential laboratory courses in food preparation and service: CAHS 10A, 10B, CASH 10N/NL, CAHS 20A, CAHS 20B, CAHS 20C, CAHS 30A, 30B and the internship class CAHS 40W.

This program includes extensive hands-on training in the department's four kitchens, bake shop, quick service cafe, cafeteria, and fine dining restaurant.

Students must complete an unpaid industry internship for which they earn class credit (CAHS 40W). Students secure these internships with the assistance of the Program Advisor.

In addition, business and management courses are also required to prepare students to be professionals in the culinary field.

General education courses (English, math, humanities, history, and diversity classes) are also required to fulfill A.S. degree requirements.

Culinary Arts Management Major (AS)

Are you someone who loves to cook? Have an adventurous spirit? Enjoy tasting new foods? This is the program for you! Whether you are new to the hospitality industry or a seasoned veteran, we can give you the support and encouragement you need to fulfill your dreams and aspirations of becoming a chef. The exciting field of culinary arts is ever changing with new food trends and ways to impact your community and the planet in a sustainable way. Students will be trained in all aspects of culinary arts and hospitality and will be well suited to enter the fast-paced, ever-growing job market as cooks, bakers and servers in hotels, restaurants, wineries, and catering companies. An Associate in Science degree with a concentration in Culinary Arts is a two-year program that provides theory and hands-on training to develop your culinary craft and includes management-related courses in the culinary industry. Our program gives you the tools, experience, and inspiration to excel in a career in the culinary arts.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the concept and techniques of sanitation, personal hygiene and professional attire to hospitality environments.
- Use costing principles and trends to profitably operate hospitality establishments
- Anticipate and perform the responsibilities of a line and/or pastry cook in a professional kitchen.

A separate application form specific to the Culinary Arts and Hospitality Studies (CAHS) program must be submitted in addition to the CCSF application. Applicants may contact the CAHS department for the application and assistance.

Recommended course sequencing for CAHS classes:

- CAHS 100 should be taken in the first semester of study.
- CAHS 10A-B, 20A-B-C, 30A-B must be taken in sequence.
- CAHS 40W is to be taken in a student's final semester and by consent of the instructor.
- Students must complete 12 units of A.S. degree requirements before continuing to the second year.

Recommended preparation for entry into the program. ESL 186 or placement in ESL 188 or readiness for college-level English; MATH 30 or equivalent.

Note that the program description below outlines only how students fulfill the Major requirement for an associate degree (AS). The CCSF associate degree also includes general education requirements. Please read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, the minimum time for completion of an AS degree is four semesters, depending on student preparation and the number of units completed per semester. The CAHS department program advisor assists all students with the application process, course registration, scholarships, internships, and job placement.

Courses Required for the Major in Culinary Arts Management

Course	Units
Required	
CAHS 100 Introduction to Hospitality	3.0
CAHS 10A Culinary Fundamentals: Intro to Food Prep	5.0
CAHS 10B Culinary Fundamentals: Baking and Pastry	5.0
CAHS 20A Culinary Fundamentals II A	3.0
CAHS 20B Culinary Fundamentals II B	3.0
CAHS 20C Culinary Fundamentals II C	3.0
CAHS 30A Restaurant Operations: Front of House, Fine Dining	4.5
CAHS 30B Restaurant Operations: Cafeteria & Quick Service	4.5
CAHS 33 Procurement and Costing	3.0
CAHS 40W Work Experience	5.0
CAHS 42 Fundamentals of Hospitality Financial Reports	3.0
BIO 121 Principles of Food Safety	2.0
BIO 130 Nutrition and Culinary Arts	2.0
Choose 3 units from the following Culinary courses	
CAHS 21 Meat Analysis	2.0
CAHS 53A Cuisines of Mexico: Oaxaca	3.0
CAHS 60A Sous Vide Cooking	1.0
CAHS 60B Classic & Modern Sauces	1.0
CAHS 60E Charcuterie, Forcemeats, and Pates	1.0
CAHS 60G Global Cuisines: France	1.0
CAHS 60H Global Cuisines: Italy	1.0
CAHS 60J Global Cuisines: United States	1.0
CAHS 60L Advanced Pastry Doughs, Batters, and Creams	1.0
CAHS 60M Chocolate and Confections	1.0
CAHS 60N Mousses: Cakes and Desserts	1.0
CAHS 60O Wedding Cakes	1.0
CAHS 60P Plated Desserts: Presentations & Techniques	1.0
CAHS 60V Cooking for Vegetarian and Other Special Diets	1.0
Choose 9 units from the following non-Culinary courses	
LBCS 96C Labor Relations in the Modern American Workplace	3.0
or PSYC 26 Applied Psychology	3.0
MGT 231 Introduction to Supervision and Management	3.0
CMST 1A Elements of Public Speaking	3.0
or CMST 6 Workplace Communication	3.0
or CMST 20 Interpersonal Communication	3.0
Total:	**58.0**

Food Service Management Program

Introduction. The major in Food Service Management is offered to prepare students who are interested in a food related career in the "front of the house" – but NOT in the kitchen. This program focuses on food service management, such as restaurant management, catering management, banquet management, purchasing, etc.

This is a two year, four semester course of study and is a rigorous, full time, day program. Students are advised to be well prepared to commit themselves to being in school 8 hours per day, 5 days a week for the duration of the Program. Students who are entering college for the first time usually take five or more semesters to complete the Program.

Accreditation. The Food Service Management Program is accredited by The American Culinary Federation. Upon completion of their A.S. degree major, students can apply for a Certificate of Completion from the Accrediting Commission of the American Culinary Federation (ACF). Please see Program Advisor for more information regarding the certificate. For more information about this agency, see the "Overview of the College" section of this Catalog.

Admission and Applications. Prior to being admitted to Food Service Management Program, applicants must complete the procedure for admission to City College of San Francisco.

When applicants have been admitted to the College, they must also complete the CAHS Department's application form, which may be obtained at the CAHS office located at Statler Wing, Room 156, by calling the office at (415) 239-3152, or by printing the application from our website: ***www.ccsf.edu/cahs*** and mailing it in.

Completed applications must be submitted by the second Monday in November for the following Spring semester and by the second Monday in April for the following Fall semester (unless these dates are displaced by a holiday). Applicants may call (415) 239-3152 for the exact deadline dates for each semester.

Prerequisites:

- Applicants are advised to have ENGL 88 or ESL 186 or placement in ESL 188 or readiness for college-level English; or to have completed ENGL 1A at CCSF or its equivalent at another college.
- A 2.0 grade point average on prior college or high school transcripts is advised.

Note: Applicants who have already earned a college degree (A.S./A.A., B.A./B.S., etc.) are required to fulfill CCSF A.S. degree requirements. Students should request an "Evaluation of Transfer Credit" after they are registered in classes and accepted to one of the CAHS degree programs. Please see Program Advisor or CCSF Counselor for more information.

Students are required to confer with the Program Advisor as to the specific classes necessary to complete their program and the order in which courses should be taken. Laboratory classes are restricted to program majors.

Costs. In addition to the current applicable tuition, fees, books, and other such college expenses, students will need to purchase uniforms,kitchen tools, and material fees at an approximate cost of $575.00 (a one-time cost).

Course of Study. All students must take a core group of courses which includes one semester in the kitchen and the following semesters emphasize front of the house service and management. Students in the Food Service Management Program must take sequential laboratory courses in food preparation, service and management: CAHS 208, CAHS 10A, 10B, CAHS 10N/NL, CAHS 30A, 10B and the internship class CAHS 40W.

This program includes extensive hands-on training in the department'sfour kitchens, bake shop, quick service cafe, cafeteria, and fine dining restaurant. Students must complete an unpaid industry internship for which they earn class credit (CAHS 40W). Students secure these internships with the assistance of the Program Advisor.

Note: The first semester of this program requires the same classes as the first semester of the Culinary Arts Program.

General education courses (English, math, humanities, history, and diversity classes) are also required to fulfill A.S. degree requirements.

Food Service Management Major (AS)

Students may earn an Associate in Science Degree with a major in Food Service Management. This major is offered to prepare students who are interested in a front of the house food-related career.

Learning Outcomes

Upon completion of this program, students will be able to:

- Practice communication skills, professional behaviors and techniques required to execute superior customer service and exceed guest's expectations
- Apply professional, supervisory and interpersonal skills needed to work with diverse groups and successfully manage food and beverage operations.
- Implement principles of cost control and sound business practices to profitably operate and evaluate food service establishments.
- Apply fundamental front and back-of-house skills in a variety of food service operations.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is 4 semesters, depending on student preparation and the number of units completed per semester.

There is a separate application form for the CAHS program. Applicants should contact the Culinary Arts and Hospitality Studies department for deadline dates.

Courses Required for the Major in Food Service Management

Course . . . . . Units

Required introductory course:

CAHS 100 Introduction to Hospitality 3.0

Choose one of the following course combinations:

CAHS 10A Culinary Fundamentals: Intro to Food Prep . . 5.0
and CAHS 10B Culinary Fundamentals: Baking and Pastry 5.0
or CAHS 10N Culinary Fundamentals 1 . . . . . 4.0
and CAHS 10NL Culinary Fundamentals 1 Laboratory 6.5

Required courses:

CAHS 30A Restaurant Operations: Front of House, Fine Dining 4.5
CAHS 30B Restaurant Operations: Cafeteria & Quick Service 4.5
CAHS 32 Hospitality Marketing 3.0
CAHS 33 Procurement and Costing 3.0
CAHS 34 Fundamentals of Contemporary Hospitality Law 3.0
CAHS 42 Fundamentals of Hospitality Financial Reports 3.0
CAHS 208 Meetings, Conventions & Special Events 3.0
BIO 121 Principles of Food Safety 2.0
BIO 130 Nutrition and Culinary Arts 2.0
MGT 231 Introduction to Supervision and Management 3.0
CMST 1A Elements of Public Speaking 3.0
or CMST 6 Workplace Communication 3.0
or CMST 20 Interpersonal Communication 3.0
CAHS 40W Work Experience* 5.0

* CAHS 40W to be taken in student's final semester and by consent of instructor.

Choose one of the following required courses:

CAHS 205 Introduction to Wine 3.0
CAHS 222 Beverage Management 3.0

Choose one of the following required courses:

PSYC 26 Applied Psychology 3.0
LBCS 96C Labor Relations in the Modern American Workplace 3.0

Total: . . . . . 58.0 – 58.5

Hospitality Management Program

Introduction. Students may earn an Associate in Science with a major in Hospitality Management. This major is designed to prepare students to work in the rooms division of a hotel or lodging facility. Students also spend one semester in the kitchen to help prepare for the Food and Beverage department of a hotel. However, this major does not prepare students for a culinary career.

Admission and Applications.

Prior to being admitted to Hospitality Management Program, applicants must complete the procedure for admission to City College of San Francisco.

When applicants have been admitted to the College, they must also complete the CAHS Department's application form, which may be obtained at the CAHS Department office located at Statler Wing, Room 156, by calling the office at (415) 239-3152, or by printing the application from our website: ***www.ccsf.edu/cahs*** and mailing it in.

Completed applications must be submitted by the second Monday in November for the following Spring semester and by the second Monday in April for the following Fall semester (unless these dates are displaced by a holiday). Applicants may call (415) 239-3152 for the exact deadline dates for each semester.

Prerequisites:

- Applicants are advised to have ENGL 88 or ESL 186 or placement in ESL 188 or readiness for college-level English; or to have completed ENGL 1A at CCSF or its equivalent at another college.
- A 2.0 grade point average on prior college or high school transcripts is advised.
- Applicants must be in good physical and mental health.

Note: Applicants who have already earned a college degree (A.S./A.A, B.A./B.S., etc.) are required to fulfill CCSF A.S. degree requirements. Students should request an "Evaluation of Transfer Credit" after they are registered in classes and accepted to this program. Please see Program Advisor or CCSF Counselor for more information.

Students are required to confer with the Program Advisor as to the specific classes necessary to complete their program and the order in which courses should be taken.

Costs. In addition to the current applicable tuition, fees, books, and other such college expenses, students will need to purchase uniforms, kitchen tools, and material fees at an approximate cost of $575.00 (a one-time cost).

Course of Study. Students are required to take all the classes listed in the Hospitality Management Curriculum below along with requirements for an A.S. degree. Students must complete an unpaid industry

internship for which they earn college credit (CAHS 40W). Students secure these internships with the assistance of the Program Advisor.

General education courses (English, math, humanities, history, and diversity classes) are also required to fulfill A.S. degree requirements.

Hospitality Management Major (AS-T)

The Associate in Science in Hospitality for Transfer is designed to provide students with foundational knowledge and skills desirable for further advanced study in Hospitality, particularly at the California State University system. This program provides the academic foundation required for various areas of hospitality studies, such as hotel administration, restaurant operations, hospitality law, finance, and marketing. This transfer degree also prepares students for work in the following industries: Hotel operations including Rooms Division, Food & Beverage and Sales & Marketing; Restaurant Operations; Corporate Food Service; Travel & Tourism Industry; and Meeting, Conventions & Special Events. Note--There is a separate application form for the CAHS program. Applicants should contact the Culinary Arts and Hospitality Studies Department for deadline dates.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply best practices in the hospitality industry to further economic and environmental sustainability.
- Employ multicultural perspectives to meet the needs of guests and employees.
- Use creative and critical thinking to problem solve and make decisions effectively in the community and industry.
- Apply essential hospitality operations and management skills.

Degree Requirements. Students who wish to earn the Associate in Science for Transfer (AS-T) in Hospitality Management must complete 60 CSU or IGETC transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and for the major as specified below. Each course in the major must be completed with a minimum grade of "C" (or "P"). Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

Recommended preparation for entry into the program. ENGL 88 or ESL 186 or placement in ESL 188 or readiness for college-level English; MATH 30 or equivalent skills.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AS-T in Hospitality Management

Course . . . . . Units

Required

CAHS 100 Introduction to Hospitality 3.0
ECON 3 Principles of Microeconomics 3.0
CAHS 43 Principles of Hotel Administration 3.0
CAHS 34 Fundamentals of Contemporary Hospitality Law 3.0

Choose 6-10 units from the following courses

BIO 121 Principles of Food Safety 2.0
CAHS 33 Procurement and Costing 3.0
CAHS 30A Restaurant Operations: Front of House, Fine Dining 4.5
CAHS 20A Culinary Fundamentals II A 3.0
CAHS 32 Hospitality Marketing 3.0
CAHS 42 Fundamentals of Hospitality Financial Reports 3.0
CAHS 205 Introduction to Wine 3.0
CAHS 208 Meetings, Conventions & Special Events 3.0
CAHS 222 Beverage Management 3.0
ACCT 1 Financial Accounting 5.0
or BSL 1 Business Law I 3.0
or ECON 5 Introductory Statistics for Economics, Business and Social Sciences 5.0
or LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies 5.0
or MATH 80 Probability and Statistics 5.0
or PSYC 5 Statistics for Behavioral Sciences 5.0

Total: . . . . . 18.0 – 22.0

Hospitality Management Major (AS)

The Associate of Science in Hospitality is designed to prepare students who wish to enter the hospitality industry with the skills to succeed in entry level positions. This program provides the academic foundation required for various areas of hospitality, such as hotel administration, restaurant operations, hospitality law, finance, marketing, meetings, conventions and special events and culinary arts.

Learning Outcomes

Upon completion of this program, students will be able to:

- Categorize the different departments within a hotel and explain the interactions between them.
- Enhance organizational performance through use of industry specific technology.
- Apply costing principles and trends to profitably operate hospitality establishments.
- Apply the concept and techniques of sanitation, personal hygiene and professionalism to hospitality environments.

Recommended preparation for entry into the program. ENGL 88 or ESL 186 or placement in ESL 188 or readiness for college-level English; MATH 30 or equivalent skills.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with the Department's Program Advisor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Hospitality Management

Course . . . . . Units

Required introductory course

CAHS 100 Introduction to Hospitality 3.0

Choose one of the following pairs of courses:

CAHS 10A Culinary Fundamentals: Intro to Food Prep 5.0
CAHS 10B Culinary Fundamentals: Baking and Pastry 5.0
or CAHS 10N Culinary Fundamentals 1 . . . . . 4.0
CAHS 10NL Culinary Fundamentals 1 Laboratory 6.5

Required courses

CAHS 32 Hospitality Marketing 3.0
CAHS 33 Procurement and Costing 3.0

CAHS 34 Fundamentals of Contemporary Hospitality Law 3.0
CAHS 42 Fundamentals of Hospitality Financial Reports 3.0
CAHS 43 Principles of Hotel Administration 3.0
CAHS 40W Work Experience* 5.0
*To be taken in the student's final semester and with consent of the instructor
BIO 121 Principles of Food Safety 2.0
CMST 1A Elements of Public Speaking 3.0
or CMST 6 Workplace Communication 3.0
or CMST 20 Interpersonal Communication 3.0

Choose one of the following courses:
PSYC 26 Applied Psychology 3.0
LBCS 96C Labor Relations in the Modern American Workplace 3.0

Choose one of the following courses:
MGT 231 Introduction to Supervision and Management 3.0
MGT 233 Human Resources Management 3.0

Choose one of the following:
CAHS 30A Restaurant Operations: Front of House, Fine Dining 4.5
and CAHS 30B Restaurant Operations: Cafeteria & Quick Service 4.5
or CAHS 208 Meetings, Conventions & Special Events 3.0

Total: . . . . . 47.0 – 53.5

Culinary Arts and Hospitality Certificate

This certificate program is designed to prepare students in the Culinary Arts. The program's approach equips students with the relevant skills to enter a robust hospitality job market in the bay area. This credit certificate provides short-term culinary and service skills training for entry into the labor market.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply front of the house operations and methods of service to a variety of tasks in the food service industry.
- Apply the concept and techniques of sanitation, personal hygiene and professional attire to hospitality environments.
- Anticipate and perform the responsibilities of a line and/or pastry cook in a professional kitchen.

Completion of ESL 186 or placement in ESL 188 or ENGL 1A+1AS or higher.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Culinary Arts and Hospitality

Course . . . . . Units
Required
CAHS 10A Culinary Fundamentals: Intro to Food Prep . . 5.0
CAHS 10B Culinary Fundamentals: Baking and Pastry. . . 5.0
CAHS 20A Culinary Fundamentals II A 3.0
CAHS 20B Culinary Fundamentals II B 3.0
CAHS 20C Culinary Fundamentals II C 3.0
CAHS 30A Restaurant Operations: Front of House, Fine Dining 4.5
CAHS 30B Restaurant Operations: Cafeteria & Quick Service 4.5
CAHS 100 Introduction to Hospitality 3.0
BIO 121 Principles of Food Safety 2.0
Total: 33.0

Entrepreneurship and Innovation in Hospitality Management Certificate

This certificate program is designed to prepare students in Hospitality Management to engage in the world of entrepreneurship. The program's interdisciplinary approach to entrepreneurship equips students with relevant tools in exploring various pathways to entrepreneurship such as full-time business ownership, sub-contracting (freelancing), consulting, corporate intrapreneurship or mission-driven social entrepreneurship.

The interdisciplinary focus provides basic culinary and service skills training for business startups. While generally designed for those interested in attaining a certificate in hospitality field, this skillset allows students to participate in today's gig economy as a freelance chef, a food blogger, or a content creator in the hospitality industry.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply an entrepreneurial mindset that breeds creativity and innovation in hospitality management.
- Use terms and concepts related to functional areas of entrepreneurship necessary for startups.
- Analyze the marketing environment to identify entrepreneurial opportunities and areas for growth and development.
- Develop an agile and lean business plan for a startup project or enterprise that is ready for pitching.
- Compare different entrepreneurship pathways that are available for people venturing into food and beverage industry.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Entrepreneurship and Innovation in Hospitality Management

Course . . . . . Units
Required Courses:
ENTR 101 Introduction to Entrepreneurship 3.0
ENTR 102 Applied Design Thinking for Entrepreneurship 1.5
DSGN 105 Design Thinking 1.5
MRKT 140 Introduction to Marketing 3.0

Culinary Arts and Hospitality (Choose a minimum of 9 units from the following courses)
CAHS 32 Hospitality Marketing 3.0
CAHS 34 Fundamentals of Contemporary Hospitality Law 3.0
CAHS 42 Fundamentals of Hospitality Financial Reports 3.0
CAHS 100 Introduction to Hospitality 3.0
CAHS 205 Introduction to Wine 3.0
CAHS 208 Meetings, Conventions & Special Events 3.0
CAHS 209 Food Business Entrepreneurship 3.0
CAHS 222 Beverage Management 3.0

BIO 121 Principles of Food Safety 2.0
BIO 130 Nutrition and Culinary Arts 2.0
Total: 18.0

Announcement of Courses

NOTE: Some lecture courses are not offered every semester. Consult the Time Schedule for the times these courses will be offered.

Credit, Degree Applicable Courses:

CAHS 10A. Culinary Fundamentals: Intro to Food Prep (5)
Lec-35, Lab-170
Prereq: Admission to the Culinary Arts and Hospitality Studies degree program; Completion of or concurrent enrollment in: CAHS 10B
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Introductory commercial food preparation for professional kitchens through a combination of extensive hands-on practice, lecture and demonstrations. Focus on preparation of multicultural breakfast foods, salads, and sandwiches while taking into account sanitation, sustainability, waste reduction, and seasonality. CSU
Formerly Culinary Fundamentals I

CAHS 10B. Culinary Fundamentals: Baking and Pastry (5)
Lec-35, Lab-170
Prereq: Admission to the Culinary Arts and Hospitality Studies degree program; Completion of or concurrent enrollment in: CAHS 10A
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Pastry and baking production skills through extensive hands-on practice complemented by a combination of lectures and demonstrations. Working in a professional kitchen environment at City College, students prepare an impressive and varied assortment of breads, breakfast pastries, cookies, cakes, pies, tarts and fine-dining plated desserts, honing organizational skills, accuracy, and speed while adhering to sanitation and safety protocols. CSU
Formerly Culinary Fundamentals I

CAHS 10N. Culinary Fundamentals 1 (4)
Lec-70
Prereq: Admission to the Culinary Arts and Hospitality Studies degree program
Coreq: CAHS 10NL
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Fundamentals of commercial food preparation for the hospitality industry. Concepts for handling professional kitchen tools and equipment, food sanitation, safety, kitchen mathematics and terminology. Theory of the preparation of various hot and cold savory dishes and various baked goods. This course is the lecture component for CAHS 10NL. CSU
All sections will charge a material fee of $75.00

CAHS 10NL. Culinary Fundamentals 1 Laboratory (6.5)
Lab-350
Coreq: CAHS 10N
Fundamentals of commercial food preparation for the hospitality industry. Skills for handling professional kitchen tools and equipment through practical application. Preparation of various hot and cold savory dishes and various baked goods. Practice of food sanitation, safety techniques, organizational skills, and kitchen mathematics and terminology. This course is the laboratory component for CAHS 10N. CSU
All sections will charge a material fee of $75.00

CAHS 20A. Culinary Fundamentals II A (3)
Lec-22, Lab-116
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL)
Advanced principles of food preparation and service. Emphasis is on classical French cooking and its foundation for modern styles of cuisine. Practice classical and modern cooking techniques employing all standard cooking methods. Production is centered around butchery and utilizing related cuts for curing, smoking, sausage making and the art of garde manger - patés, terrines and hors d'oeuvres. CSU
C-ID HOSP 160 (CAHS 20A + CAHS 20B + CAHS 20C)
CAHS 20A + CAHS 20B + CAHS 20C may be taken in any order.

CAHS 20B. Culinary Fundamentals II B (3)
Lec-22, Lab-116
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL); Completion of or concurrent enrollment in: CAHS 20A and CAHS 20C
Advanced principles of food preparation for fine dining kitchens through a combination of extensive hands-on practice, lecture, and demonstrations. Focus on line-cooking in various stations with preparation of seasonal menus while taking into account sanitation, sustainability, and restaurant cooking techniques. CSU
C-ID HOSP 160 (CAHS 20A + CAHS 20B + CAHS 20C)

CAHS 20C. Culinary Fundamentals II C (3)
Lec-22, Lab-116
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL); Completion of or concurrent enrollment in: CAHS 20A; CAHS 20B
Advanced principles of food preparation and service. Emphasis is on classical French cooking and its foundation for modem styles of cuisine. Students will practice classical and modem cooking in a production lab environment (Industrial kitchen), employing all standard cooking techniques, producing a variety of entrees, starches, vegetables, sauces and a variety of foods from around the world. CSU
C-ID HOSP 160 (CAHS 20A + CAHS 20B + CAHS 20C)

CAHS 21. Meat Analysis (2)
Lec-35
Recommended Prep: Completion of or concurrent enrollment in: CAHS 20A and CAHS 20B and CAHS 20C
Focuses on the fabrication of beef, pork, veal, lamb, poultry, and fish; proper cuts and their uses; and recognition of the quality of meat and cooking methods used for various cuts of meats. Also learn about purchasing specifications and ordering terms. CSU

CAHS 30A. Restaurant Operations: Front of House, Fine Dining (4.5)
Lec-43, Lab-131
Prereq: CAHS 20A and CAHS 20B and CAHS 20C Completion of or concurrent enrollment in: CAHS 30B
Focus on front-of-house restaurant operations and dining service, management and equity issues, restaurant trends, and cost controls. A key component of the course is intensive hands-on training in our fine dining restaurant. CSU
C-ID HOSP 130 (CAHS 30A + CAHS 30B)
Formerly Restaurant Operations

CAHS 30B. Restaurant Operations: Cafeteria & Quick Service (4.5)
Lec-43, Lab-131
Prereq: CAHS 20A and CAHS 20B and CAHS 20C; Completion of or concurrent enrollment in: CAHS 30A
Focus on food service operations such as management, cost control for cafeterias and quick service business models. A key component of the course is intensive hands-on training in the two college food service outlets: the cafeteria and quick service outlets. CSU
C-ID HOSP 130 (CAHS 30A + CAHS 30B)
Formerly Restaurant Operations

CAHS 32. Hospitality Marketing (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Fundamentals of marketing in the hospitality industry, including research, sales, advertising, public relations, social media and other concepts related to hospitality marketing. CSU
Offered Spring semesters

CAHS 33. Procurement and Costing (3)
Lec-52.5, field trips
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Examine current issues in procurement for the hospitality industry, such as sourcing sustainably, ensuring diversity, and understanding where food and other goods come from. Other topics include emerging purchasing technologies and external forces that affect the supply chain. Learn the skills needed to plan what, how much, when, from whom, and how much to pay for products and services in order to maintain a profitable business. CSU
C-ID HOSP 120

CAHS 34. Fundamentals of Contemporary Hospitality Law (3)
Lec-52.5
An overview of the legal system as it pertains to hotels, restaurants, bars, and private clubs with an emphasis on liability prevention particularly in the areas of employment, ADA and civil rights compliance, food service liability, responsible beverage service and the innkeeper/guest relationship. CSU
C-ID HOSP 150
Offered Fall semesters

CAHS 40W. Work Experience (5)
Work-300-375
Prereq: Evidence of passing a CA Food Safety Manager Certification exam administered by an accredited food protection manager certification organization (e.g. Servsafe or National Registry of Food Safety Professionals) per SB 602 & CA Health & Safety Code; And approval of CAHS work experience instructor/coordinator
Repeat: Students can repeat twice (total 3 enrollments)
Off campus laboratory training in hotels, restaurants and other allied areas. This final course in the program is designed to provide practical experience in the branch of the industry to which the student shows to be best adapted or in which the student desires additional training beyond that given in prior classes. One unit of credit is earned for 60 hours of unpaid work, or 75 hours of paid work. CSU
Must be taken in the student's final semester in the program.

CAHS 42. Fundamentals of Hospitality Financial Reports (3)
Lec-52.5
An introductory and practical overview of hotel and restaurant accounting with emphasis on understanding what the numbers mean and how to apply them in actively managing the operation of a hotel, restaurant, or other food business. CSU

CAHS 43. Principles of Hotel Administration (3)
Lec-52.5, field trips
Comprehensive survey of operating system and components of a hotel-resort facility, including front office, housekeeping, food and beverage, sales and marketing, accounting, property maintenance, human resources management. Describes management administration, concepts, principles, hotel operations as a major industry. Introduction to how revenue management, social media marketing, reputation management, Smith Travel Report and profit and loss statements show the success or failure of a hotel. CSU
C-ID HOSP 140

CAHS 53A. Cuisines of Mexico: Oaxaca (3)
Lec-17.5, Lab-105, field trips P/NP available
Recommended Prep: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL) or culinary industry experience
An advanced culinary course that explores the authentic cuisine of Oaxaca, Mexico. History and use of indigenous ingredients, local cooking methods, techniques, and terminology related to Oaxacan cuisine through instructor-led demonstrations, hands-on cooking experience and market visits. CSU

CAHS 60A. Sous Vide Cooking (1)
Lec-17.5
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL); Completion of or concurrent enrollment in: CAHS 20A or CAHS 20B or CAHS 20C
Lecture and demonstration of the history, trends, and applications of sous vide cooking. CSU
Offered Spring semesters

CAHS 60B. Classic & Modern Sauces (1)
Lec-17.5
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL); Completion of or concurrent enrollment in: CAHS 20A or CAHS 20B or CAHS 20C
Lecture and demonstration of the history, trends, and techniques of classic and modern sauce-making. CSU
Offered Fall semesters

CAHS 60E. Charcuterie, Forcemeats, and Pates (1)
Lec-17.5
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL); Completion of or concurrent enrollment in: CAHS 20A or CAHS 20B or CAHS 20C
Basic techniques including smoking and curing, for creating charcuterie, sausages and pates. CSU
Offered on occasion

CAHS 60G. Global Cuisines: France (1)
Lec-18
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL); Completion of or concurrent enrollment in: CAHS 20A or CAHS 20B or CAHS 20C
An advanced culinary course including lecture on the history,

techniques, ingredients, and current trends of French cuisine, and demonstration of techniques for production. CSU
Offered Spring semesters

CAHS 60H. Global Cuisines: Italy (1)
Lec-18
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL); Completion of or concurrent enrollment in: CAHS 20A or CAHS 20B or CAHS 20C
An advanced culinary course including lecture and demonstration of the history, techniques, ingredients, and current trends of Italian cuisine. CSU
Offered Fall semesters

CAHS 60J. Global Cuisines: United States (1)
Lec-18
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL)
Coreq: CAHS 20A or CAHS 20B or CAHS 20C
An advanced culinary course including lecture and demonstration of the history, techniques, ingredients, and current trends of United States cuisine. CSU
Offered Fall semesters

CAHS 60L. Advanced Pastry Doughs, Batters, and Creams (1)
Lec-17.5
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL) or CSST 9661; Completion of or concurrent enrollment in: (CAHS 20A or CAHS 20B or CAHS 20C) or (CSST 9650 or CSST 9651)
A study of the history and techniques for the production of tart doughs, choux paste, puff pastry, cookie doughs, creams and curds and their use in finished desserts. CSU
Offered on occasion

CAHS 60M. Chocolate and Confections (1)
Lec-17.5
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL) or CSST 9661; Completion of or concurrent enrollment in: CAHS 20A or CAHS 20B or CAHS 20C or CSST 9650 or CSST 9651
Lecture and demonstration on the history of chocolate, chocolate tempering, and the production process for making ganaches, molded truffles and chocolate decor. Techniques for producing assorted confections and candies. CSU
Offered Summer semesters

CAHS 60N. Mousses: Cakes and Desserts (1)
Lec-17.5
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL) or CSST 9661; Completion of or concurrent enrollment in: (CAHS 20A or CAHS 20B or CAHS 20C) or (CSST 9650 or CSST 9651)
Applied study of techniques for the production process for creating mousse-based desserts and "entremet" cakes. Emphasis on current trends, including use of seasonal and local produce. CSU
Offered Spring semesters

CAHS 60O. Wedding Cakes (1)
Lec-17.5
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL) or CSST 9661; Completion of or concurrent enrollment in: CAHS 20A or CAHS 20B or CAHS 20C or CSST 9650 or CSST 9651
Lecture and demonstration on wedding cake production including pricing, sizing, design considerations, techniques for assembly, and delivery. Preparation and use of sponge cakes, fillings, buttercreams, fondant, royal icing, decorations, and dummy cakes. Includes discussion on the history of wedding cakes. CSU
Offered on occasion

CAHS 60P. Plated Desserts: Presentations & Techniques (1)
Lec-17.5
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL) or CSST 9661; Completion of or concurrent enrollment in: CAHS 20A or CAHS 20B or CAHS 20C or CSST 9650 or CSST 9651
Applied study of dessert presentations for restaurants and buffets: menu planning, development, assembly techniques, plating, and buffet design. Emphasis on current trends, including use of seasonal and local produce. CSU
Offered Spring semesters

CAHS 60V. Cooking for Vegetarian and Other Special Diets (1)
Lec-17.5
Prereq: (CAHS 10A and CAHS 10B) or (CAHS 10N and CAHS 10NL); Completion of or concurrent enrollment in: CAHS 20A or CAHS 20B or CAHS 20C
This class covers various flavor profiles, cooking techniques, ingredients, and equipment used to create dishes for vegetarian, vegan, gluten-free, allergen-free, and other special diets. CSU

CAHS 100. Introduction to Hospitality (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A comprehensive examination of the hospitality industry, including lodging, restaurants, recreation, meeting, conventions, special events and the travel and tourism sectors. Emphasis on organizational structures, departments, job classifications, and career paths within each sector. Lecture and discussions are enhanced by industry guest speakers. CSU
C-ID HOSP 100

CAHS 205. Introduction to Wine (3)
Lec-52.5
Prereq: Students must be 21 to enroll
An introduction to the history of wine, major wine regions and production of grapes along with basic techniques of sensory evaluation of wines, with emphasis on the major grape varieties and their varying Old and New World expressions. CSU
Offered Spring semesters

CAHS 208. Meetings, Conventions & Special Events (3)
Lec-52.5
Recommended Prep: ENGL 88 or ESL 186 or (placement into ESL 188 or readiness for college-level English)
An introduction to the meetings, conventions and special events industry. Topics include types of meetings, conventions and events, the necessary steps needed to plan a successful meeting or event from site selection, budgeting, space usage, food and beverage, and security to wrap-up. CSU
Offered Spring semesters

CAHS 209. Food Business Entrepreneurship (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Through lectures and industry guest speakers this class explores the fundamentals of what it takes to start a food business such as a food

truck, pop up, or brick and mortar restaurant. Topics covered include components of a business plan, lease or purchase negotiations, design and build out of a space, staffing, permits and licenses, how to plan for profitability and more. CSU
Methods: 1. lecture to present facts, principles and concepts of the above topics 2. guest lectures to provide specific practical information and insights 3. class discussion to review, discuss and clarify material covered 4. scheduled meetings with students to measure progress on term project
Offered Fall semesters

CAHS 222. Beverage Management (3)
Lec-52.5, field trips
This course covers the basics of beverage management for hotels, restaurants, and bars. Topics covered will include alcoholic and non-alcoholic beverage production methods and proper service, creation of beverage lists, costing, bar design and equipment, hiring, management, and the fundamentals of mixology. CSU
Offered Fall semesters

CAHS 245. Introduction to Food Preparation for Home (3)
Lec-35, Lab-52.5 P/NP available
Introduction to hands-on food preparation techniques with an emphasis on practical skills. Course also includes nutritious meal planning, cost effective, seasonal food selection, purchasing, storage, preservation concepts, safety, sanitation, elementary nutrition and standards for sensory evaluation. CSU
REQUESTED CREDIT CLASSIFICATION A. Credit/Degree applicable ('meets all standards of Title V. Section 55002(a))
Offered on occasion

CAHS 246. Special Occasion Cooking (3)
Lec-35, Lab-52.5 P/NP available
Special occasion menu planning and preparation including food selection, food preparation, sanitation and safety, and use of specialized cooking equipment. Students prepare and serve complete menus for special occasions, family celebrations, and holidays. Students learn wine and food pairings and food presentation. Special occasion table setting and service also included. CSU
Requested Credit Classification Degree Applicable (meets all students of Title V, Section 55002 (a))
Offered Spring semesters

CAHS 247. Food and Culture (2)
Lec-17.5, Lab-52.5 P/NP available
Hands-on food preparation focusing on the cuisine of multiple cultures. Topics covered: food in relation to historical, geographical, and social customs; principles of international food preparation and evaluation of specialized equipment UC/CSU
Offered on occasion

Noncredit Programs

The noncredit programs provide both short-term and one-year certificates in introduction to culinary fundamentals, culinary and service skills, and baking and pastry. These programs are designed for entry into the labor market.

Program Advisory. Strong verbal and written skills, and the ability to lift 50 pounds. Classes are taught through a combination of lecture and hands-on training in the Educated Palate restaurant at the Downtown Center or at facilities at the Chinatown/North Beach center. These courses prepare students for entry-level work in restaurant and hotel kitchens and dining rooms.

Procedures for noncredit enrollment:

1. File a CCSF noncredit student application either online or at the Downtown or Chinatown/North Beach centers.
2. Meet with a counselor for program information, placement test dates, and instructions on how to enroll.
3. Take the following placement tests (if you have not yet taken any ESL or TRST courses):
   - Noncredit English (CASAS) or Noncredit ESL, and
   - Noncredit math test (CASAS).

   CASAS testing is available at Downtown, John Adams, and Southeast campuses. Non credit ESL testing is available at all City College campuses except Southeast and Evans. The following link can be used to find the noncredit testing schedule: ***http://www.ccsf.edu/NEW/en/future-students/future_noncreditstudents.html***
4. Bring testing information to a counselor to receive enrollment instructions.
5. Enrollment will begin the first day of noncredit instruction.

For more information about our noncredit programs, please call: 415.239.3152 or visit ***www.ccsf.edu/cahs.***

Baking and Pastry Noncredit Certificate

The noncredit certificate programs provide short-term culinary and service skills training for entry into the labor market. While generally designed for those interested in attaining a certificate, these classes also work well for professionals and non-professionals interested in refining their skills.

Learning Outcomes

Upon completion of this program, students will be able to:

- Work in a safe and sanitary manner
- Employ basic kitchen math including recipe costing and sizing.
- Identify and properly utilize professional bakery tools and equipment.
- Work in a professional bakery and/or baking department.

A certificate will be awarded after successful completion of both courses with the grade of "C" or better, and a minimum of 80% attendance.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Noncredit Certificate in Baking and Pastry

Course	Hours
Required courses:	
CSST 9650 Introduction to Baking and Pastry	510.0
CSST 9651 Advanced Baking and Pastry	510.0
Total:	**1020.0**

Announcement of Courses

Noncredit Courses:

CABT 9000. Introduction to Culinary Fundamentals (250 hrs)
Prereq: ESLN 3600 or TRST 2322 or (placement into ESLN 3700 or TRST 3331); TRST 2421 or placement in TRST 3421
Introduction to kitchen basics, including equipment use, safety, and sanitation. In addition, this course focuses on culinary fundamentals such as knife skills, classic cooking methods and preparation, vocabulary, and basic kitchen math.

CABT 9001. Hospitality Customer Service Skills (15 hrs)
Recommended Prep: CABT 9000
Teaches specific skills to effectively deal with customers and clients in the hospitality industry. For the front-line employee who is the first point of contact with customers.

CSST 9650. Introduction to Baking and Pastry (510 hrs)
Recommended Prep: ESLN 3600 or TRST 2322 or placement in ESLN 3700 or TRST 3331; and TRST 2421 or TRST 3421
Development of the skills necessary for an entry-level position in the baking and pastry industry. Topics include safety and sanitation, bakeshop terminology, proper use of equipment, weights and measures, ingredients and their functions, baker's math, baking methods and the development of basic baking skills. Students learn through a combination of lecture, demonstrations, and extensive hands-on practice.
All sections will charge a material fee of $75.00

CSST 9651. Advanced Baking and Pastry (510 hrs)
Prereq: CSST 9650
Recommended Prep: ESLN 3600 or placement in ESLN 3700 or TRST 3331; TRST 2421 or TRST 3421
Development and improvement upon the basic skills and common techniques used in the baking and pastry industry. Topics include meringues, petit fours and miniatures, mousses and creams, frozen desserts, chocolate and confections, fancy and display cakes, yeast-raised products using preferments, baker's math, ingredient functionality, troubleshooting.
All sections will charge a material fee of $75.00

Custodial*

* See Automotive/Motorcycle, Comstruction, and Building Maintenance

Dental Assisting

Office: Cloud 304F
Phone Number: (415) 239-3479
Web Site: *www.ccsf.edu/dad*

Announcement of Curricula

Dental Assisting Major (AS)

Degree Curriculum
Training in the curriculum in Dental Assisting is designed to prepare students for employment as Registered and Certified Dental Assistants in private practice, specialty dentistry, hospitals, clinics and dental schools. Positions to which graduates may advance with experience and further training include those of dental product sales representative, insurance auditor, manager, supervisor, educator, and RDAEF. This program includes instruction in intra-oral dental functions and direct patient care/chairside experience in dental schools, clinics and private offices and public dental care facilities in San Francisco and the Daly City/South San Francisco area. Students who have completed their training satisfactorily are qualified to take the state licensure examination to become Registered Dental Assistants and the national examination to become Certified Dental Assistants.

Accreditation. The program in Dental Assisting is accredited by the American Dental Association's Commission on Dental Accreditation, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education, and is accredited by the California Board of Dentistry, **Department of Consumer Affairs, State of California.** For more information about this agency, see the "Overview of the College" section of this Catalog.

Course of Study. The two-year course of study includes instruction in traditional four-handed dental assisting techniques and in the legally allowed intra-oral functions delegated to a registered dental assistant. Courses in dental anatomy, dental materials, radiography, and preventive dentistry are prerequisites to clinical instruction. The clinical phase of the curriculum utilizes the School of Dentistry at the Arthur A. Dugoni School of Dentistry at the University of the Pacific, San Francisco; affiliated hospital clinics; and selected private dental offices.

Associate in Science Degree. The curriculum is designed so that students may satisfy the requirements for graduation from the College and receive the degree of Associate in Science.

Information Regarding Admission. Requests concerning admission should be addressed as follows: Department Chair, Dental Assisting, Box C-4, City College of San Francisco, 50 Frida Kahlo Way, San Francisco, California 94112.

Consideration for Admission to the Curriculum. The curriculum in Dental Assisting, offered to new applicants in the fall semester only, is open to all interested students who fulfill the following admission requirements:

1. Eligibility for admission to CCSF. (See in this catalog the Admission to College Admission open to individuals 18 years of age or older, high school graduates and others).
2. Complete the Program's application and health history forms and submit to the Dental Assisting Program's office.
3. Applications are required to complete the following courses with a C or higher prior to applying to the Dental Assisting Program:
   - ENGL 88 or ESL 186 or placement in ENGL 1A or ESL 188*
   - BIO 9 or BIO 106 (formerly ANAT 14) or BIO 108 (formerly ANAT 25) or BIO 111 (formerly PHYS 1) or BIO 112 (formerly PHYS 12) or the equivalent*
   - Typing skill of 45 wpm or better. This requirement may be met by successfully completing a computer or typing class, or a typing test can be administrated at the Program's office. The course for the typing skill does not need to be met at college level. Proof of successful completion of a computer or typing class will be acceptable on any level.

**Students who have a Bachelor's degree (BS or BA), are waived from the English, Science, and typing requirements. Please provide proof of degree with your application.*

It is highly recommended that students who have not attended college for more than 2 years or do not have a degree in science complete BIO 9 or BIO 106 as a refresher course prior to starting the program.

*Students may apply while you are concurrently enrolled in the prerequisite courses. Please indicate this in the application. Students may be conditionally accepted to the program, pending verification of your final grade. All courses must be completed PRIOR to the Fall semester.

Advanced Placement. Applicants who have been admitted to the curriculum and who have previous education or experience in dental assisting may apply for credit and advanced placement in the curriculum. However, such applicants should first have completed the science, English and keyboard requirements.

Bases for Disqualification. Students who receive a final grade lower than "C" in any dental assisting course will be disqualified from con

tinuing in the curriculum. Students who receive a final grade lower than "C" will be permitted to repeat a course only once and must achieve a grade of "C" at all evaluation periods. Students who repeat a course and who do not achieve a grade of "C" at an evaluation period will be disqualified from continuing in the curriculum. Students may also be disqualified for safety and other reasons consistent with College policy.

Major in Dental Assisting. Students who have satisfied the requirements for graduation from the College and who have completed the curriculum will receive the Major in Dental Assisting.

Eligibility for the Certification Examination and CA Licensure Examinations (RDA). Graduates who receive a Major or a Certificate of Achievement are eligible to take the Certification Examination given by the Dental Assisting National Board and the Licensure Examinations to become a Registered Dental Assistant given by the Dental Board of California.

Learning Outcomes

Upon completion of this program, students will be able to:

- Integrate the knowledge of dental science, materials, radiography, procedures, patient and office management into the clinical practices required of registered dental assistants in general and specialized dentistry.
- Perform with competency all registered dental assistant duties outlined by the California Dental Practice Act.
- Conduct work ethically and professionally, as expected in the dental assisting profession.
- Anticipate what is required in state and national licensure exams that authorize one to perform registered and certified dental assistant functions.

Assuming students start this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Dental Assisting

Course	Units
First Semester:	
DENT 51 Applied Dental Science I	4.0
DENT 55A Dental Roentgenography I	2.0
DENT 62 The Dental Assistant in Practice	3.0
Second Semester:	
DENT 55B Dental Roentgenography II	2.0
DENT 57 Dental Office Management	3.0
Third Semester:	
DENT 52 Dental Materials and Procedures	3.0
DENT 53 Introduction to Chairside Assisting	3.0
Fourth Semester	
DENT 54 Applied Dental Science II	2.0
DENT 67 Advanced Dental Procedures	4.0
DENT 70 Clinical Chairside Assisting	7.0
DENT 110A Coronal Polish	0.5
Total:	**33.5**

Certificate Curriculum

The program of study for the Certificate of Achievement in Dental Assisting is designed to prepare students to take the licensing examination to be a Registered Dental Assistant as administered by the Dental Board of California and also to take the national certification examination to be a Certified Dental Assistant as administered by the Dental Assisting National Board. This course can be completed in two semesters (after completing prerequisites).

Accreditation. The curriculum is accredited by the Commission on Dental Accreditation of the American Dental Association and is approved by Dental Board of California, Department of Consumer Affairs, State of California.

Information Regarding Admission. Requests concerning admission should be addressed as follows: Department Chair, Dental Assisting, Box C-4, City College of San Francisco, 50 Frida Kahlo Way, San Francisco, CA 94112.

Consideration for Admission to the Curriculum. The curriculum in Dental Assisting is open to all interested students who fulfill the following requirements:

1. Eligibility for admission to CCSF. (Check this Catalog for college admissions requirements.)
2. File with the Office of Admissions and Records a completed application for admission to City College (for dates, see in this catalog the "Calendar of Instruction"). Students must also complete the Program's application and health history forms and submit to the Dental Assisting Program's office.
3. Recommended preparation for the program: Readiness for college-level English or ESL 186.
4. Applicants are required to complete the following courses with a C or higher prior to applying to the Dental Assisting Program:
    - BIO 9 or BIO 106 (formerly ANAT 14) or BIO 108 (formerly ANAT 25) or BIO 111 or BIO 112 (formerly PHYS 12)
    - Typing skill of 45 wpm or better. This requirement may be met by successfully completing a computer or typing class, or a typing test can be administrated at the Program's office. The course for the typing skill does not need to be met at college level. Proof of successful completion of a computer or typing class will be acceptable on any level

Advanced Placement. Applicants who have been admitted to the curriculum and who have previous education or experience in dental assisting may apply for credit and advanced placement in the curriculum. However, such applicants should first have completed the science, English and keyboard requirements.

Basis for Disqualification. Students who receive a final grade lower than "C" in any dental assisting course will be disqualified from continuing in the curriculum. Students who receive a final grade lower than "C" will be permitted to repeat a course only once and must achieve a grade of "C" at all evaluation periods. Students who repeat a course and who do not achieve a grade of "C" at an evaluation period will be disqualified from continuing in the curriculum. Students may also be disqualified for safety and other reasons consistent with College policy.

Eligibility for the Certification Examination and Licensure Examinations. Graduates who complete the Major or the Certificate of Achievement in Dental Assisting are eligible to take the Certification Examination given by the Dental Assisting National Board and the Licensure Examinations to become a Registered Dental Assistant given by the California Board of Dentistry.

Dental Assisting Certificate

Certificate Curriculum

The program of study for the Certificate of Achievement in Dental Assisting is designed to prepare students to take the licensing examina

tion to be a Registered Dental Assistant as administered by the Dental Board of California and also to take the national certification examination to be a Certified Dental Assistant as administered by the Dental Assisting National Board.

Learning Outcomes

Upon completion of this program, students will be able to:

- Integrate the knowledge of dental science, materials, radiography, procedures, patient and office management into the clinical practices required of registered dental assistants in general and specialized dentistry.
- Perform with competency all registered dental assistant duties outlined by the California Dental Practice Act.
- Conduct work ethically and professionally, as expected in the dental assisting profession.
- Anticipate what is required in state and national licensure exams that authorize one to perform registered and certified dental assistant functions.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Credit Toward Graduation. All credits that students earn in obtaining the Certificate of Achievement in Dental Assisting may also be applied toward satisfaction of the requirements for graduation from the College.

Courses Required for the Certificate of Achievement in Dental Assisting

Course	Units
First Semester:	
DENT 51 Applied Dental Science I	4.0
DENT 52 Dental Materials and Procedures	3.0
DENT 53 Introduction to Chairside Assisting	3.0
DENT 55A Dental Roentgenography I	2.0
DENT 62 The Dental Assistant in Practice	3.0
Second Semester:	
DENT 54 Applied Dental Science II	2.0
DENT 55B Dental Roentgenography II	2.0
DENT 57 Dental Office Management	3.0
DENT 67 Advanced Dental Procedures	4.0
DENT 70 Clinical Chairside Assisting	7.0
DENT 110A Coronal Polish	0.5
Total:	**33.5**

Announcement of Courses

Credit, Degree Applicable Courses:

DENT 51. Applied Dental Science I (4)
Lec-52.5, Lab-52.5
Prereq: BIO 9 or BIO 106 or BIO 108 or BIO 112
Coreq: DENT 55A and DENT 62
Dental terminology, anatomy and physiology, mechanisms for transmitting disease and controlling/decreasing resistance to infection; oral embryology, histology, pathology, morphology. Preliminary oral examination; charting conditions - hard/soft tissues; taking/recording vital signs, cavity detector, etc. Sterilization/disinfection, infection control procedures and infectious disease process. Lab fee is required. CSU
Offered Fall semesters

DENT 52. Dental Materials and Procedures (3)
Lec-35, Lab-52.5
Prereq: Completion of or concurrent enrollment in: DENT 51 and DENT 55A and DENT 62
Coreq: DENT 53
The study of the materials and their safe handling that are employed in dentistry for the fabrication of dental appliances and tooth restorations and the manipulation of these materials. Introduction to intra-oral tasks delegated to the qualified registered dental assistant, which are related to operative dentistry such as liners, cementation & facebow transfer. Lab fee is required. CSU
Offered Fall semesters

DENT 53. Introduction to Chairside Assisting (3)
Lec-35, Lab-52.5
Prereq: Completion of or concurrent enrollment in: DENT 51 and DENT 55A and DENT 62
Coreq: DENT 52
Instruction in the role and functions of chairside assistant, such as preparing the operatory, placement of topical agents, oral evacuation, instrument identification and grasps/transfers, hand and rotary instrument identification and maintenance, placement and removal of rubber dam and matrix retainers, placement of sedative restorations, fabrication of acrylic temporary crowns, and restoration, prosthodontics and endodontics armamentarium, tray set ups and procedures. Lab fee is required. CSU
Offered Fall semesters

DENT 54. Applied Dental Science II (2)
Lec-35
Prereq: DENT 51 and DENT 52 and DENT 53 and DENT 62; Completion of or concurrent enrollment in: DENT 55B and DENT 57
Coreq: DENT 67 and DENT 70 and DENT 110A
Experiences are provided to review the student's knowledge of microbiology, disease transmission, and altering resistance to infection. Preventive dentistry, nutrition and application of the skills necessary for a preventive therapist are provided. Oral pathological conditions, the use of drugs, and dental therapeutics related to dental office emergencies are discussed. California RDA Law and Ethics. CSU
Offered Spring semesters

DENT 55A. Dental Roentgenography I (2)
Lec-17.5, Lab-52.5
Coreq: DENT 51 and DENT 62
Basic principles of radiography, history, protection, and safety guidelines. Physics and biological effects of radiation, for the patient's and operator's protection and comfort. Types of receptors, exposure and autoprocessing techniques on manikins. Composition and preparation of solutions. The relationship of dental anatomy and facial structures to the exposure and mounting of relationship of dental anatomy and facial structures to the exposure and mounting of films. Lab Fee is required. CSU
Offered Fall semesters

DENT 55B. Dental Roentgenography II (2)
Lec-17.5, Lab-52.5
Prereq: DENT 51 and DENT 55A and DENT 62
Coreq: DENT 57
Advanced techniques of dental radiography, anatomical landmarks, dental anatomy pertaining to dental radiography, exposure and processing faults. Emphasis is on evaluation of the quality of the films both intra and extra oral. Experiences in exposing full mouth radiographs for diagnosis by dentists. Processing and maintaining automatic

processors. Knowledge of panoramic & digital techniques and other related radiographic equipment. Lab Fee is required. CSU
Offered Spring semesters

DENT 57. Dental Office Management (3)
Lec-52.5
Prereq: Approval of Dental Assisting Department
Instruction in the non-clinical functions which dental auxiliaries are required to perform with emphasis on financial arrangements, collection techniques, insurance processing and maintenance of office records, account receivable transactions, office mail, inventory, purchasing, accounts payable, payroll, disbursements, tax records, marketing and group practice. Use of computer to perform basic dental office management. CSU
Offered Spring semesters

DENT 62. The Dental Assistant in Practice (3)
Lec-35, Lab-52.5, field trips
Coreq: DENT 51 and DENT 55A
The dental health team, ethics/jurisprudence HIPAA, history of dentistry, home care instruction including whitening, applied psychology, communication skills; verbal and written (telephone/fax/computer) communication, the special patient, appointment control, recall systems and the administrative assistant, use of Dentrix software for office functions. Lab Fee is required. CSU
Offered Fall semesters

DENT 67. Advanced Dental Procedures (4)
Lec-52.5, Lab-52.5
Prereq: DENT 52 and DENT 53 and DENT 62; Completion of or concurrent enrollment in: DENT 55B
Coreq: DENT 54 and DENT 70 and DENT 110A
Instruction in the specialties of dentistry including advance endodontics, periodontics, orthodontics, oral surgery, removable prosthodontics, and pediatric dentistry as well as the armamentarium required for each. Development of preclinical skills in the expanded functions required of the Registered Dental Assistant. Students are required to meet standards of competency for all required tasks including coronal polishing and ultrasonic removal of cement from ortho bands. Lab fee is required. CSU
Offered Spring semesters

DENT 70. Clinical Chairside Assisting (7)
Lec-42.5, Lab-10 P/NP only
Prereq: Current certification in Cardiopulmonary resuscitation (CPR) approved by American Heart Association or American Red Cross for healthcare provider. Completion of or concurrent enrollment in: DENT 54 and DENT 55B and DENT 57 and DENT 67
Clinical experiences and evaluations on delivery of direct patient care, critical thinking exercises, reports, projects. Clinical instruction and practice in four-handed procedures on general and specialty dentistry and intra-oral tasks assigned to the RDA. Development of professional attitude (ethics/jurisprudence) in dental assisting. Evaluation on pit and fissure sealant placement. Preparation for employment and career placement opportunities. Lab fee is required. CSU
Offered Spring semesters

DENT 110A. Coronal Polish (.5)
Lec-7, Lab-8 P/NP available
Prereq: Current Registered Dental Assistant or eligible for the RDA Examination
This course is designed and approved to meet the Dental Board of California's regulation for Coronal Polish. This course includes lecture and clinical hours. Students will be taught and use techniques for remo val from the clinical crown the following: pellicle, plaque, and extrinsic stain. The students will be required to provide their own patients and follow program's sterilization and infection control policies. CSU
Offered Spring semesters

Disabled Students Courses

Office: Rosenberg Library 323
Phone Number: (415) 452-5481
Web Site: *www.ccsf.edu/dsps*

Announcement of Courses

Credit, Degree Applicable Courses:

DSPS 20. Adapted Fitness and Wellness (1)
Lab-35 P/NP available
An introduction to physical fitness and wellness for students with disabilities. Emphasis is placed on creating a modified exercise program to increase physical activity and cardiovascular conditioning. Course includes exercises such as walking, stretching, wheelchair movement, body weight movements and stress reduction techniques to enhance general wellness. UC/CSU
Offered on occasion

Credit, Non-Degree Applicable Courses:

Title 5, Section 56029 of the California Code of Regulations allows DSPS students the option of repeating the following courses multiple times with the consent of the DSPS Department.

DSPS M. Learning Strategies for College (2)
Lec-17.5, Lab-52.5 P/NP only
Coreq: Enrollment in at least one other CCSF credit course
Repeat: As allowed by Title 5 provisions
An individualized course designed for students who have learning disabilities. Focus is on utilizing skills and compensatory strategies to overcome learning challenges. Similar in content to DSPS O except that DSPS M is for those who require more intensive assistance.

DSPS O. Diagnostic Learning (1)
Lab-52.5 P/NP only
Coreq: Enrollment in at least one other CCSF credit course
Repeat: As allowed by Title 5 provisions
An individualized course for students who have learning disabilities. Focus is on utilizing skills and compensatory strategies to overcome learning challenges. Students are assisted in the lab in using the strategies on assignments from their classes.

DSPS Q. Main Idea Strategies (1)
Lec-17.5 P/NP only
Recommended Prep: Completion of or concurrent enrollment in: ENGL 88 or ENGL 1AS or ENGL 1A or ESL 182 or ESL 184 or ESL 186 or ESL 188
Designed for students with learning disabilities who are in courses involving reading and writing. Improvement of reading comprehension and basic written expression. Prerequisite language and reasoning skills necessary for identifying the main idea in addition to textbook reading study skills.
Offered on occasion

DSPS S. Strategies for Problem Solving (2)
Lec-35 P/NP only
Practical application of analytical and creative problem-solving process strategies (goal setting, learning styles, decision-making, etc.) designed

for students with learning disabilities, but open to others. Reinforces student accountability. Major assignments, quiz, and final project are comprehensive, subjective, interactive, and conceptually-based rather than based on retention of facts.
Offered on occasion

DSPS T. Diagnostic Learning Essentials (.5)
Lab-26.25 P/NP only
Coreq: Enrollment in at least one other CCSF credit course
An individualized course for students who have learning disabilities. Focus is on instruction and practice of compensatory strategies to overcome learning weaknesses. Students are assisted in the lab in using the strategies on assignments from their classes.

DSPS X. Strategies for Success in Math (2)
Lec-26.25, Lab-35 P/NP only
Recommended Prep: MATH 30 or MATH 40 or MATH 43
Strategies for success in Math for students with learning disabilities who are enrolled in Math 30, 40, or 43. Emphasis on strategies for processing, language expression, memory, reasoning, and processing speed as they relate to Math.

Noncredit Courses

DSPS 4014. Accessible Arts and Crafts (90-108 hrs)
Arts and crafts adapted for all disabilities. Introduces basic art concepts and crafts skills. Students create projects using materials and processes increasingly more challenging as the course progresses and their abilities develop. Adaptive equipment and techniques introduced as needed. May lead to exhibition of student art work.

DSPS 4017. Accessible Theatre Arts (36-54 hrs)
Designed for students with disabilities to provide life-skill proficiencies essential to the fulfillment of academic, career technical, and personal goals in theatre arts. Students explore and develop abilities in creative self-expression, through participation in a variety of accessible dramatic experiences, increasing their range of physical expression, developing creative verbal self-expression, and learning to work collaboratively with others. Process may lead to dramatic productions.

DSPS 4023. Job Search Skills (72-108 hrs)
Course designed for students with disabilities. Emphasis on exploration of individual skills and interests, work options, communication skills and appropriate work behaviors. Small group work on developing attitudes, self-confidence, and competencies to locate, secure, and retain employment.

DSPS 4028. Coping with Acquired Brain Injury (108 hrs)
Students with mild acquired brain injury learn strategies to improve attention, memory, organization, planning, reasoning, and communication in a supportive group setting. Classroom tasks include following directions, problem-solving, time management, verbal and written skills. Emphasis is placed on student responsibility, reliability, goal-setting, and organization.

DSPS 4029. Learning with an Acquired Brain Injury (54 hrs)
Practical strategies to build and strengthen cognitive function for students with mild acquired brain injury. Focus is on improving attention, memory, organization, planning, reasoning, and communication in a supportive group setting. Tasks include following directions, problem-solving, and verbal skills.

DSPS 4033. Stroke - Communication (45-54 hrs)
For students experiencing receptive and/or expressive language difficulty (aphasia) resulting from a stroke or other acquired brain impairment. Class focuses on improving overall functional communication skill in a group setting. Exercises include listening, speaking, reading, writing, and structured conversation. May also be useful to caregivers.

DSPS 4035. Accessible Computer Laboratory (45-90 hrs)
A laboratory course designed for students with disabilities. Needs-based instruction in adaptive computer software and equipment for academic, vocational or personal use. Also, computer-assisted instruction in Internet, email, business software, cognitive retraining, and/or basic skills.

DSPS 4040. Disability and Employment: Independent Vocational Exploration (20 hrs)
Recommended Prep: ESLN 3800 or TRST 3346
For individuals interested in vocational rehabilitation process to secure competitive non-supported employment without assistance of a job developer or coach. Emphasis is on defining career options based on functional abilities and limitations. Topics include work-life balance, hiring discrimination laws, benefits planning and negotiation of workplace accommodations. Course utilizes assessment tools and research of resources to help explore local labor market trends and develop a career path.

DSPS 4044. Healthy Choices/Consumer Education (42.5-51 hrs)
This course is designed for adults with disabilities. Practical information and effective strategies to practice good nutrition, manage personal health, and maintain an active, healthy lifestyle for increasing independence. Focus on consumer skills related to food shopping, label reading, meal planning and food safety.

DSPS 4101. Communication for the Blind (72-90 hrs)
This class gives persons with visual disabilities the opportunity to interact with peers and participate in structured discussions, games and activities that improve or maintain skills in the areas of communication, problem-solving, memory, self-advocacy and self-expression and "brain fitness".

DSPS 4210. Lipreading (36-54 hrs)
Instruction and practice in lipreading, communication breakdown strategies, stress reduction, creative problem solving, and assertiveness. Acquaints students with assistive listening devices and available services. Supportive group environment. Appropriate for mild to severe hearing impairment.

DSPS 4222. Breath, Sound, and Motion for Well-being (35-44 hrs)
Reinforcement of healthy living choices. An introduction to the connections of breath, voice, body, and mind connections using movement. Practicing self-empowerment and relaxation techniques for overall well-being. Additional modalities explored for strength building, both physically and mentally, with an overall goal of increasing self enjoyment of life. Designed to be accessible for students with and without disabilities.
Modified for individuals with all levels of ability.

DSPS 4305. High School Level Learning Strategies (96-117 hrs)
Individualized course in learning strategies designed for students with disabilities who are taking high school level classes. Focus on identifying strengths and applying strategies to specific assignments in reading, writing, and/or math. May be repeated.

DSPS 4414. Accessible Arts and Crafts - Essentials (16-30 hrs)
Designed for students with disabilities. Introduces basic art concepts and crafts skills. Students create projects using materials and processes

that are increasingly more challenging as the course progresses, and the students' skills develop. Adaptive equipment and techniques are introduced as needed.
Offered on occasion

DSPS 4417. Accessible Theater Arts - Essentials (16-30 hrs)
Designed for students with disabilities. Students explore and develop tools for creative self-expression. Through participation in a variety of dramatic experiences, students increase their range of physical expression, and learn to work collaboratively with others. The process may lead to dramatic productions.
Offered on occasion

DSPS 4422. Digital Literacy (27 hrs)
Course designed for students with disabilities. Explore fundamental skills to begin to be digital citizens and responsibly use technology to find, evaluate, organize, create, and share information.

DSPS 4423. Preparation for Job Search (43-52 hrs)
This class emphasizes exploration of individual skills and interests to lay the groundwork needed to find and keep employment. Includes time management, accessing community resources, exploring work options, developing communication skills and appropriate work behaviors. Course designed for students with disabilities.

DSPS 4428. Financial Literacy (27 hrs)
Course designed for students with disabilities. Students explore fundamental information and develop basic skills necessary to more independently manage financial resources and financial well-being related to employment including basic budgeting, banking, and problem solving.

DSPS 4435. Accessible Computer Laboratory - Essentials (25-30 hrs)
A laboratory course designed for students with disabilities. Individualized instruction of adaptive computer software and equipment for academic, vocational, or personal use. Also, computer-assisted instruction in Internet, email, business software, basic skills, and cognitive development.
Offered on occasion

Earth Sciences

Office: Science 43
Phone Number: (415) 452-7423
Web Site: *www.ccsf.edu/Earth*

Announcement of Curricula

Degree Curricula

Environmental Studies Major (AS)

CCSF's Environmental Studies major provides students with a strong foundation in the natural and social sciences in preparation for transfer to a bachelor's degree program in environmental studies and related fields.

Through the required units for the Environmental Studies major, students will apply core principles and methods across the natural and social sciences to explore how the environment influences and is influenced by human institutions. Students will be able to analyze scientific, economic, political, and societal factors impacting environmental and natural resource problems and both critically evaluate and propose sustainable solutions. The major also provides opportunities for experiential learning through laboratory work and field investigations.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply concepts, models, and quantitative techniques from mathematics and the natural and social sciences to solve complex problems related to the natural world and society.
- Apply tools, practices, and quantitative reasoning to collect, analyze, and interpret environmentally relevant data in laboratory or field settings.
- Evaluate quantitative and qualitative evidence regarding the causes and consequences of human impacts on the environment and their implications for societal welfare.
- Apply scientific, economic, and sociopolitical concepts and models to both critically evaluate and propose sustainable solutions to environmental degradation and resource depletion.

See major requirements at the intended transfer institution to choose the appropriate course(s) when options are given.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Environmental Studies

Course	Units
Core course:	
ENVS 31 Introduction to Environmental Science	3.0
Choose one of the following Biology courses:	
BIO 11 Science of Living Organisms	4.0
BIO 100A General Biology	5.0
BIO 20 Introduction to Ecology	3.0
BIO 19 Ecology	4.0
Choose one of the following Chemistry courses:	
CHEM 40 Introduction to Chemical Principles	5.0
CHEM 101A General College Chemistry	6.0
Choose one of the following Earth Science course combinations:	
GEOG 1 Physical Geography	3.0
and GEOG 1L Physical Geography Laboratory	1.0
GEOL 10 Physical Geology	3.0
and GEOL 10L Physical Geology Lab	2.0
GEOL 30 Environmental Geology	3.0
and GEOL 30L Environmental Geology Lab	1.0
Choose one of the following Math courses:	
ECON 5 Introductory Statistics for Economics, Business and Social Sciences	5.0
MATH 80 Probability and Statistics	5.0
PSYC 5 Statistics for Behavioral Sciences	5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
MATH 100A Short Calculus I	3.0
MATH 110A Calculus I	5.0
Choose two of the following social science courses:	
ANTH 3 Introduction to Social and Cultural Anthropology	3.0

ANTH 3C Introduction to Cultural Anthropology: Focus on U.S. Cultures . . . 3.0
ECON 1 Principles of Macroeconomics . . . 3.0
ECON 3 Principles of Microeconomics . . . 3.0
GEOG 4 Cultural Geography . . . 3.0
GEOG 7 Economic Geography . . . 3.0
POLS 22 Environmental Politics and Policy . . . 3.0
POLS 1 American Government . . . 3.0
PSYC 1 General Psychology . . . 3.0
SOC 1 Introduction to Sociology . . . 3.0

Choose 6 units from the following courses:
ENVS 31L Environmental Science Laboratory . . . 1.0
BIO 33 Introduction to Conservation Biology . . . 3.0
BIO 100B General Biology . . . 5.0
CHEM 101B General College Chemistry . . . 5.0
ENRG 3 Introduction to Alternative Energy . . . 3.0
ENRG 3L Introduction to Alternative Energy Laboratory . . . 1.0
GEOG 41A Climate Change . . . 1.0
GEOG 110 Introduction to GIS . . . 3.0
HLTH 53 Personal and Community Health . . . 3.0
HLTH 221 Health and Social Justice . . . 3.0
OCAN 1 Oceanography . . . 3.0
OCAN 1L Oceanography Lab . . . 2.0
PHYC 10 Conceptual Physics . . . 3.0
PHYC 10L Conceptual Physics Laboratory . . . 1.0

Any of the above earth science, mathematics, biology, or social science options not already completed

Total: . . . 30.0 – 36.0

Geography Major (AA-T)

Geographers study the relationships among places, natural systems, society and cultural activities and the interdependence of these from the spatial perspective.

Geographers today are active in the examination and planning of our communities and the development of our human landscapes along with the study of global warming, deforestation, pollution, and a variety of other environmental quandaries.

This Associate in Arts in Geography for Transfer (AA-T) is specifically designed to prepare students for transfer to a CSU geography program at the upper division level. It may also be appropriate for transfer to other four-year institutions. To accomplish this goal, majors will complete transferable lower-division courses in geography and related fields. Geography majors will be able to take most or all of their lower division courses at CCSF before they transfer, but should see a counselor to confirm their program of study. Additional courses might be required to transfer to particular institutions.

Through the core classes of the AA-T in Geography, students will gain the knowledge necessary to investigate problems and ideas presented in upper division geography courses. The laborator y work will train students to use current laboratory technologies, equipment and techniques to engage in the research process using scientific methods and to investigate research questions safely.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret spatially-distributed data by using maps, graphs, and/or Geographic Information Systems (GIS)
- Evaluate core concepts in cultural and physical geography and apply them to contemporary events and issues
- Compare the general biophysical and socio-cultural characteristics among world regions
- Communicate geographic information effectively in oral, written, and graphic form

Degree Requirements. Students who wish to earn the Associate in Arts in Geography for Transfer must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" or better (or "P"). Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

See major requirements at the intended transfer institution to choose the appropriate courses when options are given and to ensure complete coverage.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Geography

Course . . . Units

Required courses
GEOG 1 Physical Geography . . . 3.0
GEOG 1L Physical Geography Laboratory . . . 1.0
GEOG 3 World Regional Geography . . . 3.0
or GEOG 4 Cultural Geography . . . 3.0

LIST A: Select 2 courses
GEOG 110 Introduction to GIS . . . 3.0
GEOG 3 World Regional Geography* . . . 3.0
GEOG 4 Cultural Geography* . . . 3.0

* If not used to satisfy core requirements

LIST B: Choose 2 of the following courses
ANTH 3 Introduction to Social and Cultural Anthropology . . . 3.0
GEOG 7 Economic Geography . . . 3.0
GEOG 111 GIS Analysis and Modeling . . . 3.0
GEOG 112 GIS Software Technology . . . 3.0
GEOL 10 Physical Geology . . . 3.0
POLS 5 International Relations . . . 3.0

Recommended additional coursework (not required)
ENVS 31 Introduction to Environmental Science . . . 3.0
GEOG 41A Climate Change . . . 1.0
GEOL 91 Geoscience Work Experience . . . 0.5 – 3.0
OCAN 1 Oceanography . . . 3.0
OCAN 1L Oceanography Lab . . . 2.0

Total: . . . 19.0

Geology Major (AS-T)

Geology is the study of the materials of which the Earth is made (rocks, minerals, water, oil, natural gas, and magmas), the structures that are produced (Earth layers, mountains, volcanoes, basins), the processes acting upon them (earthquakes, volcanism, landslides, floods, magnetic fields), and the evolution of Earth and its materials over time (Earth formation, early history, ice ages, and climate change).

Geology courses are recommended for anyone interested in understanding and living with the natural world around us and in making informed decisions on matters pertaining to interactions between natural Earth processes and society.

Geology, an interdisciplinary science, requires expertise in chemistry, physics, mathematics, computer science, and critical thinking. It requires skill in problem solving, analysis, scientific inquiry, and communication. This Associate's of Science Transfer in Geology is specifically designed to prepare students for transfer to a CSU geology program at the upper division level. It may also be appropriate for transfer to other four-year institutions. To accomplish this goal, majors will complete transferable lower-division courses in geology, math, and chemistry.

Geology majors will be able to take most or all of their lower division courses at CCSF before they transfer, but should see a counselor to confirm their program of study. Additional courses might be required to transfer to particular institutions. The geology transfer major is suitable for students planning to transfer into programs in the geology, oceanography, earth sciences, and environmental sciences.

Through the core classes of the AS-T in Geology, students will gain the scientific knowledge necessary to investigate problems and ideas presented in upper division geology courses. The laboratory work will train students to use current laboratory technologies, equipment and techniques to engage in the research process using scientific methods and to investigate research questions safely.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply tools, practices, and quantitative reasoning to collect, analyze, and interpret geologically relevant data in laboratory and field settings.
- Apply concepts, models, and quantitative techniques from mathematics, physics, chemistry, and biology to solve complex geologic problems.
- Apply scientific inquiry and investigation of evidence to formulate and critically evaluate scientific arguments, especially as relates to geologic phenomena.
- Evaluate quantitative and qualitative evidence for how humans impact earth processes and how earth processes impact humans.

Degree Requirements. Students who wish to earn the Associate in Science in Geology for Transfer (AS-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AS-T in Geology

Course . . . . . Units

Required courses:

GEOL 10 Physical Geology 3.0
GEOL 10L Physical Geology Lab. 2.0
GEOL 11 Historical Geology 3.0
GEOL 11L Historical Geology Lab 1.0
CHEM 101A General College Chemistry 6.0
CHEM 101B General College Chemistry 5.0
MATH 110A Calculus I 5.0
MATH 110B Calculus II 5.0

RECOMMENDED: One of the following physics courses

PHYC 4A Classical Mechanics for Scientists and Engineers 3.0
PHYC 4AL Mechanics Laboratory for Scientists and Engineers 1.0
PHYC 4B Electromagnetism for Scientists and Engineers 3.0
PHYC 4BL Electromagnetism Laboratory for Scientists and Engineers 1.0
or PHYC 2A Introductory Physics I 3.0
PHYC 2AL Introductory Physics Laboratory 1.0
PHYC 2B Introductory Physics II 3.0
PHYC 2BL Introductory Physics Laboratory 1.0

* NOTE: Students who want to increase their opportunities should choose Physics 4A/B series instead of 2A/B (especially if they plan to major in geochemistry or geophysics).

RECOMMENDED: One or more of the following course options for specialization:

GEOL 21A San Francisco Coastal Geology 0.5
GEOL 21B San Francisco Geology 0.5
GEOL 21C The San Andreas Fault System 0.5
OCAN 1 Oceanography 3.0
GEOL 30 Environmental Geology 3.0

Recommended additional activities:

Enroll in the Earth Sciences Club
Become part of the Earth Sciences Mentoring Program (see Department website for details).

Total: 30.0

Oceanography Major (AS)

The Oceanography major is designed to clearly demonstrate the breadth of expertise required by Oceanographers and to prepare students for the advanced courses and projects that lie ahead should they transfer and pursue a Bachelor's major in Oceanography at a four-year college.

The ocean plays a central role in physical, biological, chemical, and geological processes on earth. As such, a degree in oceanography requires an understanding of the interactions between the biosphere, hydrosphere, lithosphere, and atmosphere.

Oceanography courses are recommended for anyone interested in better understanding and living with the natural water bodies around us, in understanding global climate system, and in making informed decisions on matters pertaining to interactions between natural Earth processes and society.

Oceanography, an interdisciplinary science, requires expertise in chemistry, physics, biology, geology, mathematics, computer science, and critical thinking. It requires skill in problem solving, analysis, scientific inquiry, and communication. Students completing the Associate in Science in Oceanography will be prepared for upper division studies in oceanography and for transfer to an oceanography program at a four-year college. To accomplish this goal, majors will complete transferable lower-division courses in oceanography, biology, math, chemistry, and physics.

Oceanography majors will be able to take most or all of their lower division courses at CCSF before they transfer but should see a counselor to confirm their program of study. Additional courses might be required to transfer to particular institutions. The Oceanography major is suitable for students planning to transfer into programs in marine

science, oceanographic and atmospheric sciences, oceanography, earth sciences, and environmental sciences. Note: because of the diversity within this discipline, students will narrow their focus once they get to their transfer institution (to biological oceanography, geological oceanography, physical oceanography, or chemical oceanography). We cannot provide coverage for all these areas of focus in this one major and don't intend to. Please seek advice to determine if there are additional courses you should take for your particular major.

Through the core units of the oceanography major, students will gain the scientific knowledge necessary to investigate problems and ideas presented in upper division oceanography courses. The laboratory work will train students to use current laboratory technologies, equipment and techniques to engage in the research process using scientific methods and to investigate research questions safely.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the methods of scientific inquiry to investigate oceanographic phenomena.
- Synthesize ideas from physics, chemistry, biology, and geology to solve complex ocean-related problems.
- Analyze and discuss scientific topics with rigor, including a skeptical evaluation of evidence.
- Evaluate the impacts of society on the ocean ecosystem.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Oceanography

Course	Units
Required	
OCAN 1 Oceanography	3.0
OCAN 1L Oceanography Lab	2.0
CHEM 101A General College Chemistry	6.0
MATH 110A Calculus I	5.0
BIO 100A General Biology	5.0
Choose one of the following physics combinations:	
PHYC 4A Classical Mechanics for Scientists and Engineers	3.0
and PHYC 4AL Mechanics Laboratory for Scientists and Engineers	1.0
or PHYC 2A Introductory Physics I	3.0
and PHYC 2AL Introductory Physics Laboratory	1.0
Choose 10 units from the following	
CHEM 101B General College Chemistry	5.0
MATH 110B Calculus II	5.0
BIO 100B General Biology	5.0
GEOL 10 Physical Geology	3.0
and GEOL 10L Physical Geology Lab	2.0
PHYC 4B Electromagnetism for Scientists and Engineers	3.0
and PHYC 4BL Electromagnetism Laboratory for Scientists and Engineers	1.0
or PHYC 2B Introductory Physics II	3.0
and PHYC 2BL Introductory Physics Laboratory	1.0
Recommended	
Enroll in the Earth Sciences Club	
Enroll in both the geology and biology classes as many transfer programs will require both.	
Enroll in a computer class, such as GEOG 110	
Total:	**35.0**

Certificate Curriculum

Geographic Information Systems (GIS) Certificate

Students will develop in-depth knowledge of the fundamental concepts and practice of Geographic Information Systems (GIS) and learn hands-on problem-solving skills doing real-world GIS application projects. Students will be able to apply this knowledge and hands-on skills to various fields including, but not limited to, planning, engineering, geography, criminology, real estate, biotech, public utilities, transportation, forestry, ecology, resource management, emergency response, business/marketing.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply GIS technology to evaluate real-world problems, and communicate the GIS project process and generate written and graphic medias at a professional level.
- Locate, assess, and retrieve spatial data and knowledge across the GIS technical community to design solutions for GIS projects.
- Distinguish from among the underlying theories of GIS technology (including projections and spatial databases) to effectively design appropriate solutions to project needs.

A minimum of two of the courses must be taken at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Geographic Information Systems (GIS)

Course	Units
Required	
GEOG 110 Introduction to GIS	3.0
GEOG 111 GIS Analysis and Modeling	3.0
GEOG 112 GIS Software Technology	3.0
Total:	**9.0**

Announcement of Courses

General Information

The Earth Sciences Department offers day and evening courses that advance students toward degrees in both the natural and social sciences. Credit earned is transferable, and most courses satisfy specific graduation requirements at four-year universities. For more information, visit our website: ***www.ccsf.edu/Earth***.

Credit, Degree Applicable Courses:

Environmental Science and Sustainability

ENVS 5. Sustainability and the Environment Speaker Series (1)
Lec-18, field trips P/NP available
Recommended Prep: Background in environmental science; Completion of or concurrent enrollment in: ENVS 31
Students will hear from professionals and experts from government, private, non-profits and public sectors as they share their insights on

careers in sustainability and the environment. Career opportunities, academic and job training pathways will also be discussed. CSU
Formerly SUST 5

ENVS 31. Introduction to Environmental Science (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An examination of the scientific evidence informing our understanding of the causes and consequences of human impacts on the environment. Application of core principles, methods, qualitative and quantitative reasoning from the natural sciences, social sciences, and engineering and technology to investigate and evaluate sustainable solutions to environmental degradation and resource depletion. UC/CSU
Formerly SUST 31 = BIO 31 = GEOG 31
Offered every semester

ENVS 31L. Environmental Science Laboratory (1)
Lab-52.5, field trips P/NP available
Prereq: Completion of or concurrent enrollment in: ENVS 31
An introduction to tools and techniques used by environmental scientists to investigate human impacts on the environment in lab and/or field settings. Application of qualitative and quantitative concepts and models to evaluate environmental problems and their proposed solutions. CSU
Formerly also listed as BIO 31L, GEOG 31L, and SUST 31L
Offered every semester

ENVS 91. Applied Research in Sustainability (.5-8)
Work-30-600, field trips P/NP available
Prereq: Approval of Engineering & Technology Department
Recommended Prep: ENVS 31
Repeat: Repeated up to 16.00 Units
Internship in sustainability-related settings (such as environmental education, alternative energy systems, sustainable water systems, green building, habitat restoration, urban agriculture) under the supervision of a qualified professional. The student will need to arrange the internship and then contact the instructor to enroll in this class. Suggestions and strategies are available on course website. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
Formerly SUST 91

Geography

GEOG 1. Physical Geography (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 186
An introduction to Earth's physical environment. Processes and patterns of weather and climate, climate change, the development of landforms, plant and animal distributions, and the interpretation of maps. Attention given to the physical environment and natural hazards of California and the Bay Area. UC and CSU transferable. UC/CSU
C-ID GEOG 110; C-ID GEOG 115 (GEOG1 + GEOG 1L)
Offered every semester

GEOG 1L. Physical Geography Laboratory (1)
Lab-52.5, field trips
Coreq: GEOG 1
The study of weather and climate, tectonic processes, and landforms. Emphasis on the interpretation of weather maps, climate data, aerial photographs, and topographic maps. UC/CSU
C-ID GEOG 111; C-ID GEOG 115 (GEOG 1 + GEOG 1L)
Offered every semester

GEOG 3. World Regional Geography (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the world's major geographic regions through their physical, cultural, demographic, political, and economic characteristics. This course emphasizes geographic factors related to demographic, environmental, and political transformations. UC/CSU
C-ID GEOG 125
Offered Spring semesters

GEOG 4. Cultural Geography (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to patterns in the contemporary human landscape. Topics include dynamics of population growth, migration, systems of agriculture, the legacy of colonialism, uneven economic development, the historical development and spread of religion and language. UC/CSU
C-ID GEOG 120
Offered Fall semesters

GEOG 7. Economic Geography (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to economic geography. Topics include patterns and processes of urbanization, industrialization, and the inter-linked global economy. Contemporary issues such as international business and changing patterns of manufacturing in the United States. UC and CSU transferable. UC/CSU
Offered on occasion

GEOG 41A. Climate Change (1)
Lec-17.5
An introduction to the science of climate change. Topics include basic processes of weather and climate, methods for studying past and current climate, models for climate change projects, and natural and human-induced processes of climate change. UC/CSU
Offered on occasion

GEOG 110. Introduction to GIS (3)
Lec-44, Lab-26 P/NP available
Recommended Prep: CNIT 100 and (readiness for college-level English ESL 188)
A primer course for GIS technology. History, structure, uses, and current trends of GIS, related fundamental concepts, basic query, and cartography operations using industry-standard ESRI's ArcGIS software. UC/CSU
C-ID GEOG 155
Offered every semester

GEOG 111. GIS Analysis and Modeling (3)
Lec-43.75, Lab-26.25 P/NP available
Prereq: Completion of or concurrent enrollment in: GEOG 110
Foundational course of Geographic Information Systems (GIS) software. GIS database design, data collection, sophisticated analysis, 3D modeling, production of professional maps. Hands-?on training using industry-standard GIS software by Environmental Systems Research Institute (ESRI). Introduces Global Positioning Systems (GPS) as they relate to GIS. CSU
Offered Fall semesters

GEOG 112. GIS Software Technology (3)
Lec-43.75, Lab-26.25 P/NP available
Prereq: GEOG 110
Hands-on training in the advanced application of Geographic Information Systems (GIS) technology. Modeling, linear referencing data model, software customization using Environmental Systems Research Institute (ESRI) ModelBuilder? platform and Python programming language, web GIS using Google Map? and Keyhole Markup Language (KML?) mash-up technology. CSU
Offered Spring semesters

Geology

GEOL 10. Physical Geology (3)
Lec-52.5
Recommended Prep: (Intermediate algebra or higher) or ET 108B; Readiness for college-level English or ESL 188
Introduction to the basic concepts of physical geology, including Earth's origins and internal structure, plate tectonics, mountain building, earthquakes, minerals, rocks, volcanic processes, geologic time, weathering, erosion, coastal processes, landslides, streams, glaciers, and ice ages and natural resources. Emphasis on geologic features of western North America. UC/CSU
C-ID GEOL 100; C-ID GEOL 101 (GEOL 10 + GEOL 10L)
Offered every semester

GEOL 10L. Physical Geology Lab (2)
Lec-17.5, Lab-52.5, field trips
Prereq: Completion of or concurrent enrollment in: GEOL 10
Recommended Prep: (Intermediate algebra or higher) or ET 108B; Readiness for college-level English or ESL 188
Introduction to the materials of the Earth with emphasis on the identification and interpretation of common minerals and rocks (especially those common to California); interpretation of topographic, geologic, and structural maps; and analysis of plate tectonics processes. UC/CSU
C-ID GEOL 100L C-ID GEOL 101 (GEOL 10 + GEOL 10L)
One mandatory field trip. Transportation is NOT provided.
Offered every semester

GEOL 11. Historical Geology (3)
Lec-52.5, field trips
Recommended Prep: (Intermediate algebra or higher) or ET 108A; Readiness for college-level English or ESL 188
The study of Earth's history and the methods and tools used in its interpretation. Includes topics such as the formation and growth of continents, the creation and destruction of ocean basins, and the evolution of life on Earth as represented by the fossil record. Emphasis on the geologic and life history of North America. UC/CSU
C-ID GEOL 110
Offered Spring semesters

GEOL 11L. Historical Geology Lab (1)
Lab-52.5, field trips
Prereq: Completion of or concurrent enrollment in GEOL 11
The laboratory component to an introduction to Earth's history and the life it supports. Subjects include geologic dating, plate tectonics, stratigraphy, fossils, biological evolution, the planet's origin and the processes that have influenced paleogeography during the past 4.6 billion years. UC/CSU
C-ID GEOL 110L
Offered Spring semesters

GEOL 21A. San Francisco Coastal Geology (.5)
Lec-3, Lab-17.5, field trips P/NP only
Field class that introduces students to geological processes at work along the San Francisco Pacific coastline, emphasizing scientific field work, coastal erosion, human interactions with the coastline, sand formation and migration, and geologic history of the coastline. Field work requires hiking across uneven terrain and up and down hills. CSU
Offered on occasion

GEOL 21B. San Francisco Geology (.5)
Lec-3, Lab-17.5, field trips P/NP only
Field class that introduces students to geological processes at work in the city of San Francisco, emphasizing scientific field work surface and rock types, topographic features and their formation, geologic hazards, and geologic history. Field work requires hiking across uneven terrain and up and down hills. CSU
Offered on occasion

GEOL 21C. The San Andreas Fault System (.5)
Lec-3, Lab-17.5, field trips P/NP only
Field class that introduces students to geological processes at work within the San Andreas fault system, emphasizing scientific field work, the physical, biological, and historical impacts of earthquakes, fault formation and evolution, and geologic history of local faults. Field work requires hiking across uneven terrain and up and down hills. CSU
Offered on occasion

GEOL 30. Environmental Geology (3)
Lec-52.5, field trips
Recommended Prep: (Intermediate algebra or higher) or ET 108A; Readiness for college-level English or ESL 188
The scientific study of human interaction with Earth's near-surface environment. Topics include hazardous Earth processes, natural resources, climate and climate change, and the impacts of human population growth and pollution on environmental sustainability. UC/CSU
C-ID GEOL 130; C-ID GEOL 131 (GEOL 30 + GEOL 30L)
Offered on occasion

GEOL 30L. Environmental Geology Lab (1)
Lab-52.5, field trips
Prereq: Completion of or concurrent enrollment in: GEOL 30
An introduction to the fundamentals of Environmental Geology through laboratory work in hazards and resource assessment, regional planning as relates to these assessments, and the nature and dynamics of human interactions with Earth's near-surface environment (hydrosphere, atmosphere, soil systems and land forms). UC/CSU
C-ID GEOL 130L; C-ID GEOL 131 (GEOL 30 + GEOL 30L)
Offered on occasion

GEOL 91. Geoscience Work Experience (.5-3)
Work-30-225 P/NP available
Prereq: Approval of Earth Sciences Department
Repeat: Repeated up to 9.00 Units
Internship in geoscience-related settings (such as a laboratory, museum, park, geotechnical firm, government agency, or CCSF department) under the supervision of a qualified professional. The student will need to arrange the internship and then contact the department to enroll in this class. Suggestions and strategies are on the CCSF Earth Science website. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
Elective offered at the department's discretion

GEOL 111. Historical Geology with Lab (4)
Lec-52.5, Lab-52.5, field trips
An introduction to Earth's history and the methods and tools used in its study and interpretation. Includes topics such as the formation and growth of continents, the creation and destruction of ocean basins, and the evolution of life on Earth as represented by the fossil record. Emphasis on the geologic and life history of North America. Includes a lab component. CSU
GEOL 111 = GEOL 11 + GEOL 11L
Offered Spring semesters

Oceanography

OCAN 1. Oceanography (3)
Lec-52.5, field trips
Recommended Prep: ((Intermediate algebra or higher) or ET 108A)) and (readiness for college-level English or ESL 188)
Introduction to the major physical, biological, chemical, and geological processes at work in the oceans. Covers the formation and evolution of the oceans through Earth's history and the dynamics and interactions of currents, coastal processes, climate, seawater chemistry and physics, marine ecosystems, and society. UC/CSU
Offered every semester

OCAN 1L. Oceanography Lab (2)
Lec-17.5, Lab-52.5, field trips
Prereq: Completion of or concurrent enrollment in: OCAN 1
Recommended Prep: (Intermediate algebra or higher) or ET 108B; Readiness for college-level English or ESL 188
Introduction to the physical, biological, chemical, and geological processes at work in the oceans with emphasis on measuring and analyzing data pertaining to San Francisco Bay and the Pacific Coast including the interactions of seafloor features, weather systems, currents, tides, swell, coastal processes, seawater chemistry and physics, and biological communities. UC/CSU
One mandatory field trip. Transportation is NOT provided.
Offered every semester

Physical Science

Credit, Degree Applicable Course:

P SC 11. Conceptual Physical Science (3)
Lec-52.5, Lab-17.5, field trips
Recommended Prep: (Elementary algebra or higher) and (Readiness for college-level English or ESL 188)
An overview of the physical sciences: physics, chemistry, Earth science and astronomy. Content is taught at a conceptual level using basic math such as ratios, square roots, scientific notation, graph interpretation, slope and simple algebra. Intended for non-science majors looking for a broad understanding of the physical universe. UC/CSU
Not recommended to students who have completed a college-level course in physics, physical science, chemistry, geology,or astronomy with a final grade of "C" or higher.

P SC 11L. Physical Science Laboratory (1)
Lab-52.5
Prereq: Completion of or concurrent enrollment in: P SC 11
Recommended Prep: Elementary algebra or higher
Physical Science laboratory integrates concepts from physics, chemistry, earth science and astronomy. Data collection, critical thinking, and laboratory skills are emphasized. UC/CSU

Economics

Office: Batmale 656
Phone Number: (415) 239-3330
Web Site: *www.ccsf.edu/socialsci*

Announcement of Curricula

Degree Curricula

Economics Major (AA-T)

The AA-T in Economics offers students a comprehensive lower division program in Economics. The AA-T prepares students who wish to transfer and pursue a baccalaureate degree in Economics at California State University or University of California campuses.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply and evaluate economic concepts, principles, and methods.
- Identify and analyze important economic problems; compare and apply economic models and theories; and evaluate policy recommendations and alternatives.
- Describe and analyze economic development and institutions in diverse domestic and international contexts, including international trade and finance.
- Apply and interpret concepts and methods of descriptive and inferential statistics relevant for economics.

Degree Requirements:. Students who wish to earn the Associate in Arts in Economics for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and the number of units completed per semester.

It is possible to complete this entire program online if desired.

Courses Required for the AA-T in Economics

Course	Units
REQUIRED Core courses:	
ECON 1 Principles of Macroeconomics	3.0
ECON 3 Principles of Microeconomics	3.0
Choose ONE of the following Statistics options:	
ECON 5 Introductory Statistics for Economics, Business and Social Sciences *	5.0
MATH 80 Probability and Statistics	5.0
PSYC 5 Statistics for Behavioral Sciences	5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0

* ECON 5 is recommended.

Choose ONE of the following Calculus options:	
MATH 110A Calculus I*	5.0
MATH 100A Short Calculus I	3.0

* Students who want the option to apply to UC as an Economics major must take MATH 110A and MATH 110B. Students intending to pursue graduate study in Economics are encouraged to take MATH

110A, MATH 110B, MATH 110C, MATH 115, and MATH 130 (or MATH 120 and MATH 125).

Choose ONE of the following elective courses (List A):
MATH 110B Calculus II* 5.0
ACCT 1 Financial Accounting 5.0
ACCT 2 Managerial Accounting 5.0
CS 110A Intro to Programming 4.0
BSEN 76 Business and Technical Report Writing 3.0

* Students who want the option to apply to UC as an Economics major must take MATH 110B.

Choose ONE of the following elective courses (List B):
ECON 6 International Economics 3.0
ECON 15 Political Economy 3.0
ECON 20 LGBT Economics 3.0
ECON 22 Introduction to Environmental Economics 3.0
ECON 25 Women in the Economy 3.0
ECON 30 Economics of the African American Community 3.0
MATH 110C Calculus III 5.0
MATH 120 Linear Algebra 3.0

Total: . . . . . 20.0 – 26.0

Announcement of Courses

(See also courses in "Business Administration" and "Business.")

Credit, Degree Applicable Courses:

ECON 1. Principles of Macroeconomics (3)
Lec-52.5 P/NP available
Prereq: Elementary algebra or higher
General principles, terminology, and methodology of economics with emphasis on macroeconomics. Economic organization and institutions, markets, national income analysis, business cycles, models of aggregate economic analysis, macroeconomic equilibrium, money and banking, fiscal and monetary policy, economic growth, fundamentals of international economics. UC/CSU
C-ID ECON 202
Students who met the prerequisite with a course taken other than at CCSF may verify this on the first day of class

ECON 3. Principles of Microeconomics (3)
Lec-52.5 P/NP available
Prereq: Elementary algebra or higher
General principles and terminology of economics, with emphasis on microeconomics. Supply and demand theory, utility, elasticity, production, costs, revenues, market structures, income distribution, market failures and government policy, and international trade. UC/CSU
C-ID ECON 201

ECON 5. Introductory Statistics for Economics, Business and Social Sciences (5)
Lec-87.5 P/NP available
Prereq: Intermediate algebra or higher
Recommended Prep: Readiness for college-level English or ESL 188
Application of statistical methods and interpretation of statistical findings to facilitate decision-making in Economics, Business, Political Science and other Social Sciences. Data sources, types and interpretation; descriptive statistics; probability theory; discrete and continuous probability distributions; sampling distributions; confidence intervals; hypothesis tests; nonparametric statistics; simple linear regression analysis; computer-based statistical analysis. UC/CSU
C-ID MATH 110
Students transferring to UC can only transfer one of Econ 5, Math 80, Psych 5, and LALS 5 for credit.

ECON 6. International Economics (3)
Lec-52.5
Recommended Prep: ECON 1 and (ESL 188 or readiness for college-level English)
Introduction to the general principles, terminology, and methods of international economics, with emphasis on international trade. Examine several alternative models of international trade as well as foreign exchange markets, currency/financial crisis, globalization, unfair trade practices, regional integration, and the impact of trade on economic growth. UC/CSU
Offered on occasion

ECON 15. Political Economy (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Integrates economic analysis with the institutional and political structure of society. Basic principles, terminology and methods of political economy; alternative theories of economic growth and instability, income determination, discrimination, consumerism, and the interrelationship of class, race and gender; political economy of current issues; alternatives to"free market" capitalism. UC/CSU
Offered on occasion

ECON 20. LGBT Economics (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
LGBT economic roles, including varying experiences of LGBT people with consideration of intersecting identities by class, race, gender, and ethnicity. This course introduces the principles of economic analysis in the study of the roles of LGBT people in cultures. Examines markets and government policies for heteronormative biases; the role of homophobia and sexism in economic inequality and discrimination of LGBT people; public policy regarding LGBT people?s work and incomes. UC/CSU
Offered on occasion

ECON 22. Introduction to Environmental Economics (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to environmental studies emphasizing the interplay of ecology, economics, ethics, and public policy. Topics include market failure as causes of environmental degradation; ecological sustainability; and incentive-based economics policies for resolving problems of resource scarcity and environmental pollution. UC/CSU
Offered on occasion

ECON 25. Women in the Economy (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Women's roles in the U.S. economy, including varying experiences related to race, ethnicity, sexuality, and class. Women's occupations and earnings; unpaid household activities; experiences of women from

three American cultures; related public policy. Applies and contrasts mainstream economic and political economy theories of gender inequality. UC/CSU
Offered on occasion

ECON 30. Economics of the African American Community (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the principles of Black political economy. Topics will include: Black employment, employment discrimination, Black capitalism, the Black underclass, homelessness, and community economic development. The empirical link between race, class and income distribution will also be examined. UC/CSU
Offered on occasion

Engineering and Technology

Office: Science 148
Phone Number: (415) 239-3505
Web Site: *www.ccsf.edu/engtech*

Announcement of Curricula

General Information

Engineering and industrial practice in the United States is based to a considerable extent on the team concept. Engineers, scientists, experts in management and production, and others coordinate their work with that of technicians, craftspersons, and workers with varying degrees of skill in order to complete particular projects. To meet the varying needs of students and industry, the Engineering and Technology Department at City College of San Francisco offers an Engineering Program along with two Engineering Technology programs to train technicians. The programs are designed so that students may satisfy the requirements for graduation from the College and receive a degree of Associate in Science. In addition, the Engineering Technology programs provide a good foundation for transfer to a bachelor degree program in engineering technology or industrial technology.

Courses in the Engineering Department are identified according to the following headings: Computer Aided Drafting (CAD), Electronics (ELEC), Engineering (ENGN), Engineering Technology (ET), Welding (WELD), and Geographic Information System (GIS).

Engineering Major (AS)

The Associate in Science Degree in Engineering offers students the skills to design functional products and systems based on a foundation formed from engineering, physical science, and mathematics coursework. Graduates generally transfer to four-year institutions as juniors where they can major in a variety of engineering disciplines: computer, electrical, electronics, mechanical, civil, industrial, chemical, or manufacturing. Others seek employment as engineering technicians or technologists.

Engineering students on the transfer track are encouraged to complete additional general education college requirements so they may earn the AS in Engineering as they transfer to a four-year institution.

The degree program is based upon the recommendation of the Engineering Liaison Committee which represents the University of California, California State Universities, private universities, and community college engineering schools and departments.

Learning Outcomes

Upon completion of this program, students will be able to:

- Employ problem solving skills in basic engineering, physics, and chemistry topics.
- Calculate math skills through differential equations.
- Develop engineering analyses, reports and presentations using applicable software.
- Analyze and interpret general scientific and engineering information.
- Design experiments and numerical simulations.

Consult the catalog for specific requirements and courses available to satisfy the graduation requirements for the Associate in Science Degree. So as to not duplicate course work, it is recommended that you try to satisfy the requirements of your targeted transfer institution(s) as well as those of City College.

If you wish to substitute another class because of specific requirements of your targeted transfer institution(s) you will attend, consult with an Engineering Department Advisor.

NOTE: Four-year universities may have additional course requirements for completion of lower division. Consult the Transfer Center or an Engineering Advisor for additional information. Other technical courses that typically transfer in engineering include CHEM 101B; ENGN 24, 36, 37, 45; MATH 115, 120, 130; PHYC 4D and 4DL.

Assuming students start this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Engineering

Course	Units
Recommended First Semester:	
ENGN 10A Introduction to Engineering: The Profession	2.0
ENGN 10B Introduction to Engineering: Software Tools and Design	2.0
MATH 110A Calculus I	5.0
Choose one of the following Chemistry courses:	
CHEM 101A General College Chemistry	6.0
CHEM 103A General Chemistry for Engineering	5.0
Subsequent Semesters Additional Major Requirements	
ENGN 20 Introduction to Circuit Analysis	3.0
ENGN 20L Introduction to Circuit Analysis Laboratory	1.0
ENGN 38 Introduction to Programming Concepts and Methodologies for Engineers	3.0
MATH 110B Calculus II	5.0
MATH 110C Calculus III	5.0
MATH 125 Differential Equations	3.0
PHYC 4A Classical Mechanics for Scientists and Engineers	3.0
PHYC 4AL Mechanics Laboratory for Scientists and Engineers	1.0
PHYC 4B Electromagnetism for Scientists and Engineers	3.0
PHYC 4BL Electromagnetism Laboratory for Scientists and Engineers	1.0

PHYC 4C Waves and Thermodynamics for Scientists and Engineers 3.0
PHYC 4CL Waves and Thermodynamics Laboratory for Scientists and Engineers 1.0

Total: . . . . . 46.0 – 47.0

Biotechnology Major (AS)

The Biotechnology Program, of the Engineering and Technology Department, offers students specialized training for employment as biotechnicians engaged in research and development, and a variety of biomanufacturing disciplines. Students can select courses that give training in career skills such as bioscience career exploration, networking, resume and interview skills and have multiple opportunities to network with biotech industry professionals. Program advisers work closely with each student to assure progress. Upon successful completion of the curriculum, students receive the Associate in Science degree with Biotechnology as the Major.

Explore careers in biotechnology here: ***https://www.biotech-careers.org***

Training in the Major. The Biotechnology major focuses on hands-on skills needed to work in the biotechnology industry. In addition to training in basic chemistry and biology, and molecular and cell biology, students are trained in a variety of current biotechnology techniques. Students have the option of doing an internship, along with career development training tailored to the biotechnology industry.

Employment. Students who complete the curriculum satisfactorily are qualified for positions in quality control, research and development, and biomanufacturing technicians in research labs and biotechnology companies.

Four-year Degree Preparation. Students who wish to transfer to a biology program at UC/CSU can apply some transfer-level chemistry and biology courses toward the Biotechnology AS degree. UC/CSU transfer students will need to take additional courses after completion of the Biotechnology AS degree. Contact the Biotechnology Program Coordinator for more information about transferring to UC/CSU.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use effective written and oral skills to communicate results and analyses of experiments.
- Design, perform, and analyze experiments on nucleic acids, proteins, and cell physiology.
- Apply basic molecular and cell biology principles as they relate to biotechnology.
- Use appropriate laboratory etiquette and professionalism to work effectively in the biotechnology industry.
- Evaluate how ethical concerns influence the biotechnology industry.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Please contact the Biotechnology Program Coordinator to plan the biotechnology courses for the AS Degree. Assuming a student starts this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and the number of units completed per semester.

Courses Required for the Major in Biotechnology

Course . . . . . Units

Required math courses

BTEC 108A Practical Mathematics for Laboratory Science . . 2.0
and MATH 80 Probability and Statistics. 5.0
or MATH 90 Precalculus Algebra 5.0

Required math courses can be replaced by equivalent or more advanced math courses.

Choose one of the following required biology courses

BIO 11 Science of Living Organisms 4.0
BIO 100A General Biology 5.0

Choose one of the following required chemistry courses

CHEM 32 Introduction to Medical Chemistry 4.0
CHEM 40 Introduction to Chemical Principles 5.0
CHEM 101A General College Chemistry 6.0

Choose one of the following communication courses

CMST 1A Elements of Public Speaking 3.0
CMST 4 Group Communication 3.0
CMST 6 Workplace Communication 3.0
CMST 20 Interpersonal Communication 3.0
ESL 79 Advanced Speaking and Pronunciation 3.0

Choose 22 units from the following technical elective courses

BTEC 5 Briefings in Biotechnology 1.0
BTEC 12A GLP and GMP Principles 1.0
BTEC 14A Biotechnology Laboratory Techniques 3.0
BTEC 14B Biotechnology Internship Support 4.0
BTEC 15 Career Exploration in Bioscience 2.0
BTEC 20 Mammalian Cell Culture 3.0
BTEC 21C Stem Cell Technology 3.0
BTEC 22 Enzyme Linked Immunosorbent Assay (ELISA) 1.0
BTEC 23 Western Blotting Techniques 1.0
BTEC 24 Introduction to PCR. 1.0
BTEC 25 Analytical PCR Technology 1.0
BTEC 93 Biotechnology Work experience. . . . . 1.0 – 3.0
BTEC 103 Protein Purification. 2.0
BTEC 115 Recombinant DNA Biotechnology 5.0
BTEC 120 Molecular and Cell Biotechnology 5.0
CHEM 101B General College Chemistry 5.0
BIO 100B General Biology 5.0
BIO 120 Introduction to Microbiology. 4.0

Total: . . . . . 40.0 – 45.0

Engineering Technology Program

General Information

In the Engineering Technology Programs, City College trains students for employment as engineering technicians - persons who work with or under the directions of engineers and perform duties requiring a combination of the theoretical knowledge of an engineer and some of the skills of a craftsman.

The College offers two-year curricula in engineering technology in two fields: Electronics Engineering Technology and Mechanical Engineering Technology. The curricula in these fields comprise the Engineering Technology Programs. Students should be aware that any change in major, such as a change from one technical curriculum to another or from one program to another, requires additional time for the completion of their revised educational objectives.

Prerequisites. High school prerequisites are one-year courses in elementary and advanced algebra, geometry, trigonometry, mechanical

drawing, and physics. A one-year course in high school chemistry is highly recommended for students intending to transfer to a bachelor degree program in Engineering Technology. Students who have not completed the required high school courses may take them at City College of San Francisco.

Students should possess a minimum level of competency in English communication skills. The completion of English as a Second Language 79 is recommended.

Broad Preparation for Employment. Because emphasis in the Program is on both fundamental engineering theory and basic industrial practices, graduates may qualify for employment in many fields: CAD operator, production planning and control, manufacturing, testing, inspection, sales, installation, maintenance, or servicing.

Each curriculum in engineering technology includes courses in subjects common to all branches of engineering. In general, these subjects include the following: graphics, mathematics, orientation to engineering, and physics. Through this related study, students obtain a better understanding of the work in their majors and develop a broad technical background.

General Education. The curricula also include instruction in general education so that students may satisfy the College graduation requirements in this area.

Associate in Science Degree and Major. The Engineering Technology Program is designed so that students may satisfy the requirements for graduation from the College. Students who satisfy these requirements and complete any of the curricula with final grades of C or higher in their major technical courses also receive the Associate in Science degree in Electronic Engineering Techno-logy or Mechanical Engineering Technology. The Major may be considered a recommendation by the faculty of the Engineering and Technology Department which, in conjunction with the Career Development and Placement Center, will aid the graduate in finding a position.

Transfer to Other Colleges and Universities. Students in the Engineering Technology Programs may either enter industry upon graduation or transfer to a four-year institution to earn a bachelor's degree in engineering technology. Several campuses of the California State University such as the Sacramento, Long Beach, and Pomona campuses, as well as private institutions, such as DeVry University, offer graduates this opportunity. Engineering Technology students may also choose to transfer to a bachelor degree program in industrial technology offered at several campuses of the California State University, such as the San Francisco, San Jose, Fresno, and Chico campuses. The time required for completion of curricula open to graduates at these schools is normally two additional years. Students who intend to transfer should consult their advisers and the section in this catalog entitled "Transfer Information."

Common Core. All students in Engineering Technology initially enroll in common core courses.

Electronic Engineering Technology Major (AS)

The Major in Electronic Engineering Technology offers students training for employment in industries utilizing analog and digital systems, microprocessors, and communication electronics. The major is designed to be a two-year course of study in which students work closely with Engineering and Electronics faculty to develop the skills needed for work in the electronics industry. Upon successful completion of the curriculum, students receive the Associate in Science Degree in Electronic Engineering Technology.

Training in the first year is designed to provide students with a sound working knowledge of the theory of direct-and alternating-current circuits (common to both electrical and electronic applications). Students also study the basic principles of amplifiers, solid-state devices, digital techniques, circuits, and systems. In the second year, the student completes courses in advanced electronics; including microprocessors, communication systems (i.e. radios), and non-sinusoidal circuits.

Students who complete the curriculum satisfactorily are qualified for positions as technicians engaged in research and development, manufacturing, testing, installing, and maintaining electronic equipment. Graduates may advance after obtaining experience and further training to become production supervisors, sales engineers, field engineers, and test engineers.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply current technology to emerging applications of mathematics, science, and engineering.
- Employ circuit analysis and design, associated software, analog and digital electronics, and microcomputers to problem solving in an electronic systems technology environment.
- Apply knowledge of physics and hands-on competence to electronics circuits in a rigorous mathematical environment.
- Communicate digital and analog circuit designs effectively in a group environment.

Assuming students start this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Electronic Engineering Technology

Course	Units
Required (first semester completion recommended)	
ELEC 101 Electronics I: Essentials of Electronics Measurements and Passive Circuits	2.5
ENGN 10A Introduction to Engineering: The Profession	2.0
ET 50 Technical Mathematics	4.0
ET 104 Introduction to Engineering Drawing and Manufacturing	2.0
PHYC 2A Introductory Physics I	3.0
PHYC 2AL Introductory Physics Laboratory	1.0
Required specialization courses	
CMST 4 Group Communication	3.0
ELEC 102A Electronics II: Active Analog Circuits and Practical Applications	2.5
ELEC 102B Electronics II: Digital Circuits and Practical Applications	2.5
ELEC 103A Electronics III: Analog Circuits and Practical Applications	2.5
ELEC 103B Electronics III: Digital Circuit Interfaces and Programming	2.5
ELEC 104A Electronics IV: Wireless and Industrial Communication Systems	2.5
ELEC 104B Electronics IV: Microcontroller Interfaces and Programming	2.5
MATH 100A Short Calculus I	3.0
PHYC 2B Introductory Physics II	3.0
PHYC 2BL Introductory Physics Laboratory	1.0

Choose 4 units of technical electives

Choose Technical Electives from Engineering (ENGN) and/or Computer Networking and Information Technology (CNIT) courses. Please consult an engineering advisor to ensure your choices match your academic goals. You may request to substitute courses not on the above list if you get approval of an engineering advisor. These could include mechanical courses, engineering courses, or courses in other departments. 4.0

Total: 43.5

Mechanical Engineering Technology Major (AS)

The Major in Mechanical Engineering Technology offers students specialized training for employment as engineering technicians engaged in research, design, operation, maintenance, testing, or sales. The major is designed to be a two-year course of study in which students work closely with Engineering and Engineering Technology faculty to develop the skills needed for work in various engineering related industries. Specialization options are offered from the second through the fourth semester. Upon successful completion of the curriculum, students receive the Associate in Science Degree in Mechanical Engineering Technology.

Training in the first year is designed to provide students with a sound working knowledge of the principles of engineering drawing, applied mathematics, electrical circuits, physics, manufacturing methods, and computers. In the second year, students have the option to focus on computer aided design (CAD), advanced manufacturing (CAM), heating ventilation and air-conditioning (HVAC), or engineered plumbing systems.

Students who complete the curriculum satisfactorily are qualified for positions such as an estimator-designer, assistant operating engineer, mechanical or research technician, or junior test engineer. Graduates may advance after obtaining experience and further training to become production supervisors, sales engineers, field engineers, and test engineers.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply and adapt current knowledge to emerging applications of mathematics, science, engineering and technology.
- Perform technical calculations and solve technical problems commonly encountered in mechanical engineering technology careers.
- Function competently in a laboratory environment, making measurements safely operating technical equipment, critically analyzing and interpreting experimental results, and properly reporting on experimental results, including their potential for improvement.
- Identify, analyze, formulate and solve technical engineering problems by applying modern tools, including scientific calculators, computers, and appropriate software.
- Apply technical and communication skills to work effectively in a group environment.

In almost all cases, more advanced physics, mathematics, or technical courses covering the same areas can be substituted for the required courses listed. This is ideal if you are on the transfer path and would also like to earn an AS Degree. Please contact the Department Chair to evaluate any substitutions.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Mechanical Engineering Technology

Course . . . . . Units

Required

ELEC 101 Electronics I: Essentials of Electronics Measurements and Passive Circuits 2.5
ENGN 10A Introduction to Engineering: The Profession 2.0
ET 50 Technical Mathematics 4.0
ET 104 Introduction to Engineering Drawing and Manufacturing 2.0
PHYC 2A Introductory Physics I 3.0
PHYC 2AL Introductory Physics Laboratory 1.0
PHYC 2B Introductory Physics II 3.0
PHYC 2BL Introductory Physics Laboratory 1.0

Choose one of the following

CMST 4 Group Communication 3.0
CMST 20 Interpersonal Communication 3.0

Choose one of the following options

OPTION 1: Computer Aided Drafting

REQUIRED:

CAD 99A 3D Printing & Solid Modeling 1.0
CAD 99B Advanced AutoCAD Techniques 1.0
CAD 180 Introduction to Technical Drawing 1.0
CAD 181 Introduction to Computer Aided Drafting CAD I 2.5
CAD 182 Engineering Detailing in Revit® 2.5
CAD 184 Structural Building Information Modeling (BIM) in Revit 2.5
CAD 190 Part Modeling in SOLIDWORKS® 2.5

OPTION 2: HVACR and Engineered Plumbing Systems

REQUIRED:

ET 130 Applied Fluid Mechanics for Mechanical Engineering Technology 3.0
ET 136A HVAC System Fundamentals 2.0
ET 136B Fundamentals of Air Conditioning and Refrigeration 2.0
ET 139A Engineering Plumbing Systems 3.0
ET 139B Plumbing System Design Fundamentals 3.0
CAD 187 Mechanical, Electrical, and Plumbing (MEP) Building Information Modeling (BIM) in Revit 2.5

Choose one of the following

ENGN 24 Engineering Design Graphics 3.0
ENGN 38 Introduction to Programming Concepts and Methodologies for Engineers 3.0
WELD 140 Manufacturing Processes 3.0

Up to 3 units of course work can be taken from courses not on the above technical elective list with approval of the Engineering and Technology Department Chair. These could include electronics courses, engineering courses, or CAD courses in other departments.

Total: . . . . . 34.5 – 40.0

Engineering-Related Occupations

Certificate Curricula

General Information

The Certificate Programs in Engineering-Related Occupations consists of several programs of study: the Certificate Curriculum in Air-Conditioning and Refrigeration, the Certificate Curriculum in Biomanufacturing, the Certificate Curriculum in Biotechnology, the Certificate Curriculum in Stem Cell Technology, the Certificate Curriculum in Drafting, the Certificate Curriculum in Electronics, and the Certificate Curriculum in Engineering Plumbing Systems. For further information, contact the Engineering and Technology Department office, Science Hall, Room 148.

Admission. Enrollment in these curricula is open to those who:

1. Want to add to their knowledge of and skills in engineering-related occupations, and
2. Want to improve their competence in these fields in order to prepare for advancement. Students are required to satisfy prerequisites before admission in certain courses in the curricula; however, instructors will accept equivalent experience in lieu of various prerequisites.

Application for Certificate. To apply for a certificate in one of the curricula below, contact the Engineering and Technology Department office, Science Hall, Room 148, phone (415) 239-3505.

Heating, Ventilation, Air-Conditioning, and Refrigeration Certificate

The Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) program offers instruction, theory, and training in the design and repair of HVACR equipment. The program combines theory with practical hands-on training designed to simulate the work environment and skills needed to excel in this challenging field. The program prepares students for employment in the field and provides an opportunity for currently employed personnel to achieve a level of HVACR certification. Typically, in the spring semester, students take the EPA 608 technician certification exam. Students completing the program will be qualified for employment as HVACR installers, mechanics, and technicians.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe thermodynamic properties of steam tables, dry air, and psychrometric processes involved in air-conditioning cooling and heating systems.
- Calculate air-conditioning cooling and heating load calculations.
- Estimate fan horsepower from airflow quality and pressure drop for ductwork systems and water horsepower from water from through pipes.
- Select proper air conditioning units, refrigeration components, equipment and pipe sizes for fluid systems in buildings.
- Verify safety devices as they pertain to the functions of refrigeration equipment

Initially, ET130 and ET 136A should be taken in the fall semester, followed by ET136B and CAD187 in the spring. Students who have completed ET 135A, B, or C under the previous program will have their coursework honored and should speak to the department chair to determine the best course of academic study.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester. Students must successfully complete at CCSF at least 20% of the units required to earn the certificate.

Courses Required for the Certificate of Accomplishment in Heating, Ventilation, Air-Conditioning, and Refrigeration

Course	Units
Required	
ET 130 Applied Fluid Mechanics for Mechanical Engineering Technology	3.0
ET 136A HVAC System Fundamentals.	2.0
ET 136B Fundamentals of Air Conditioning and Refrigeration	2.0
CAD 187 Mechanical, Electrical, and Plumbing (MEP) Building Information Modeling (BIM) in Revit	2.5
Total:	**9.5**

Biotechnology Certificate

The Biotechnology certificate program is designed to prepare students for employment in the biotechnology industry, research laboratories and biomanufacturing. The program emphasizes hands-on training and skills necessary for a successful career as a technician or research associate.

Learning Outcomes

Upon completion of this program, students will be able to:

- Record and communicate accurate records of laboratory work.
- Design and perform basic procedures and techniques used in the biotechnology and related industries.
- Discuss current scientific and ethical concepts in biotechnology.
- Apply and practice industry regulations and processes.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Biotechnology

Course	Units
Required courses:	
BTEC 12A GLP and GMP Principles	1.0
BTEC 20 Mammalian Cell Culture	3.0
BIO 11 Science of Living Organisms	4.0
CHEM 32 Introduction to Medical Chemistry	4.0
Choose one of the following courses or course combinations:	
BTEC 115 Recombinant DNA Biotechnology	5.0
or BTEC 24 Introduction to PCR.	1.0
and BTEC 25 Analytical PCR Technology	1.0
Choose one of the following course or course combinations:	
BTEC 120 Molecular and Cell Biotechnology	5.0
or BTEC 22 Enzyme Linked Immunosorbent Assay (ELISA)	1.0
and BTEC 23 Western Blotting Techniques	1.0
Choose 3 additional units from the following elective courses not completed above:	
BTEC 115 Recombinant DNA Biotechnology	5.0
BTEC 22 Enzyme Linked Immunosorbent Assay (ELISA)	1.0
BTEC 120 Molecular and Cell Biotechnology	5.0
BTEC 23 Western Blotting Techniques	1.0

BTEC 5 Briefings in Biotechnology 1.0
BTEC 24 Introduction to PCR. 1.0
BTEC 25 Analytical PCR Technology 1.0
BTEC 21C Stem Cell Technology 3.0
Total: . . . . . 19.0 – 27.0

Biotechnology Lab Assistant Certificate

The Bay Area is the birthplace of biotechnology. The high density of biotechnology companies and universities in this area has generated an increased demand for entry-level jobs. This program is designed to give a rigorous and engaging hands-on introduction to the biosciences while strengthening the math and language skills needed for success in these entry-level positions. The Biotechnology Lab Assistant Certificate will prepare students for jobs such as laboratory aides & assistants, laboratory safety monitors and laboratory testing. No previous science coursework or experience is necessary for entry into this program. Students do need to have completed Math 40, or the equivalent. Students will gain valuable experience with laboratory work, documentation, and collaborative work with their peers. Students will also get an overview of the biotechnology industry and survey different careers. After successful completion of this certificate, students will be ready for an entry level position or a Biotechnology Program-supported internship. Some courses for this certificate also satisfy requirements for the AS in Biotechnology and for transfer to a four-year university.

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform basic mathematical calculations and follow laboratory protocols used in common procedures and techniques in biotechnology and other related industries.
- Apply knowledge of cGMP (current Good Manufacturing Practices) and GLP (Good Laboratory Practices) to complete work in a regulated biotechnology operation.
- Record and communicate accurate records of laboratory work.
- Describe career skills in different fields in the biotechnology and other related industries.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Biotechnology Lab Assistant

Course . . . . . Units
Required Courses:
BTEC 12A GLP and GMP Principles 1.0
BTEC 14A Biotechnology Laboratory Techniques 3.0
BTEC 15 Career Exploration in Bioscience 2.0
BTEC 108A Practical Mathematics for Laboratory Science 2.0
BIO 11 Science of Living Organisms 4.0
CMST 1A Elements of Public Speaking 3.0
CHEM 32 Introduction to Medical Chemistry 4.0
Choose one of the following courses:
BTEC 4 Introduction to Biotechnology 3.0
BTEC 5 Briefings in Biotechnology 1.0
Choose 2 units from the following electives:
BTEC 20 Mammalian Cell Culture 3.0
BTEC 22 Enzyme Linked Immunosorbent Assay (ELISA) 1.0
BTEC 23 Western Blotting Techniques 1.0
BTEC 24 Introduction to PCR. 1.0
BTEC 25 Analytical PCR Technology 1.0
Total: . . . . . 22.0 – 25.0

Biotechnology Work Experience Certificate

The high density of biotechnology industry and research laboratories in the Bay area has generated an increased demand for jobs in biotechnology fields. This program is designed to provide laboratory skills and real-life work experience through internships for the students who are exploring careers in biotechnology. In addition to technical laboratory skills, the students will gain essential career skills with focus on workplace success. The internships are closely monitored by the faculty through a support class where the students share their experiences, discuss laboratory work etiquettes and practice scientific communication. The program provides networking opportunities for the students with biotechnology industry professionals. The program allows the students to gain valuable real-life work experience that prepares them for entry level careers such as research and laboratory assistants and technicians in industry and academic laboratories.

Learning Outcomes

Upon completion of this program, students will be able to:

- Communicate accurate records of laboratory work including objectives, procedures, and analysis of the results.
- Design and perform basic procedures and techniques used in the biotechnology industry.
- Research and communicate scientific concepts and principles to describe different fields of biotechnology industry and applications, as well as impacts on society.
- Practice professional skills, workplace etiquette and integrity in a biotechnology industry setting.

The Biotechnology Work Experience certificate may be a stand-alone program for the more advanced students or a capstone program for the students who have completed the Biotechnology or the introductory Biotechnology Lab Assistant Certificates of Achievement and wish to gain relevant work experience through internships.

The minimum time for completion of this certificate is 2 semesters. Students who have already completed the Biotechnology Lab Assistant certificate may complete this certificate in 1 semester. Completion time will vary based on the student's preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Biotechnology Work Experience

Course . . . . . Units
Required Courses:
BTEC 93 Biotechnology Work experience. 3.0
BIO 11 Science of Living Organisms 4.0
CHEM 32 Introduction to Medical Chemistry 4.0
Choose one of the following course combinations
BTEC 15 Career Exploration in Bioscience 2.0
and BTEC 14B Biotechnology Internship Support. 4.0
or BTEC 21D Introductory Stem Cell Internship Support. 4.0

and BTEC 21E Advanced Stem Cell Internship Support. 4.0

Choose a minimum of 4 units from the following electives:

BTEC 14A Biotechnology Laboratory Techniques 3.0
BTEC 20 Mammalian Cell Culture. 3.0
BTEC 21A Mammalian Cell Culture 2.0
BTEC 21B Fluorescent Cell Technology. 2.0
BTEC 21C Stem Cell Technology 3.0
BTEC 22 Enzyme Linked Immunosorbent Assay (ELISA) 1.0
BTEC 23 Western Blotting Techniques 1.0
BTEC 24 Introduction to PCR. 1.0
BTEC 25 Analytical PCR Technology 1.0
BTEC 115 Recombinant DNA Biotechnology 5.0
BTEC 120 Molecular and Cell Biotechnology 5.0

Total: . . . . . 21.0 – 24.0

Stem Cell Technology Certificate

Students in the Stem Cell Technology certificate program will be prepared to work at a biotech company or an academic research lab as a technician in mammalian cell culture or adult and embryonic stem cell culture.

Learning Outcomes

Upon completion of this program, students will be able to:

- Utilize proper aseptic technique in laminar flow hood and laboratory bench.
- Apply skills in culturing and maintaining mammalian cells including stem cells.
- Formulate and apply knowledge of fluorescent markers and stains in cell biology research.
- Evaluate and apply methods of quantifying and analyzing cellular proteins and nucleic acids.
- Apply knowledge of industry regulations and processes.

The Stem Cell Technology certificate is designed for students that have a strong grasp of algebra, biology, and chemistry from precious academic or work experience. The following courses (or the equivalent) are strongly recommended: One semester of elementary algebra or completion of a higher level math class, two semesters of general chemistry and one semester of general biology.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Accomplishment in Stem Cell Technology

Course . . . . . Units

Required courses:

BTEC 21A Mammalian Cell Culture 2.0
BTEC 21B Fluorescent Cell Technology. 2.0
BTEC 21C Stem Cell Technology 3.0
BTEC 12A GLP and GMP Principles 1.0

Choose at least 2 units of the following course or course combinations:

BTEC 115 Recombinant DNA Biotechnology 5.0
BTEC 24 Introduction to PCR. 1.0
and BTEC 25 Analytical PCR Technology 1.0

Choose at least 2 units from the following course or course combinations:

BTEC 120 Molecular and Cell Biotechnology 5.0
BTEC 22 Enzyme Linked Immunosorbent Assay (ELISA) 1.0
and BTEC 23 Western Blotting Techniques 1.0

Recommended additional coursework:

BTEC 5 Briefings in Biotechnology 1.0

Total: 12.0

Engineered Plumbing Systems Certificate

The Engineered Plumbing Systems program offers instruction in the design and sizing of a wide variety of plumbing systems and the application of basic fluid flow principles. These skills are necessary in the design of domestic water, rainwater, sanitary drainage, fire protection, fuel gas, compressed air, hydronic and steam heating systems. Students completing this certificate program will be qualified to work with engineers as plumbing systems designers.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply basic principles of plumbing systems to a variety of designs.
- Interpret and apply plumbing codes and regulations.
- Calculate system and equipment sizes based on engineering principles for a range of plumbing systems.
- Propose solutions to a variety of problems dealing with basic principles of fluid flow.
- Employ standard practices in fire protection system design.

ET130, ET139A, ET139B, and CAD187 may be taken in any order. Students who completed ET 139C under the previous program should speak to the instructor or department chair to determine the best course of academic study. Students with previous experience in this field may petition to waive or substitute requirements as approved the Department Chair.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester. Students must successfully complete at CCSF at least 20% of the units required to earn the certificate.

Courses Required for the Certificate of Accomplishment in Engineered Plumbing Systems

Course . . . . . Units

Required

ET 130 Applied Fluid Mechanics for Mechanical Engineering Technology 3.0
ET 139A Engineering Plumbing Systems. 3.0
ET 139B Plumbing System Design Fundamentals 3.0
CAD 187 Mechanical, Electrical, and Plumbing (MEP) Building Information Modeling (BIM) in Revit 2.5

Total: 11.5

Machining Technology Level I Certificate

Machining technology programs prepare graduates for careers in manufacturing industries. Topics include detailed drawing (electrical, electronic, and mechanical) blueprint reading, hands-on set up, machine tools, and machine shop operations with emphasis on lathes, horizontal and vertical milling machines.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply basic measuring tools (steel rules, vernier calipers, and micrometers), layout tools, and hand tools.
- Comply with current machine shop safety and environmental regulations.
- Perform basic operations using manual mills, lathes, and drill presses in accordance with industry recognized and accepted practices.

Students may apply for certificate having completed course work within the past 5 years.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Machining Technology Level I

Course	Units
Required courses:	
ET 104 Introduction to Engineering Drawing and Manufacturing	2.0
WELD 140 Manufacturing Processes	3.0
Total:	**5.0**

Machining Technology Level II Certificate

Machining technology programs prepare graduates for careers in manufacturing industries. A level II certificate includes basic machine shop blueprint reading and machine shop operations. Added are more advanced applications of lathe and milling which include Computer Numerical Control (CNC) training in G and M codes and explanation of Geometric Dimensioning and Tolerancing (GD&T) symbols and their meanings.

Learning Outcomes

Upon completion of this program, students will be able to:

- Utilize hand and layout tools.
- Comply with current machine shop safety and environmental regulations.
- Perform operations using manual mills, lathes, and drill presses in accordance with industry recognized and accepted practices.
- Develop tool path codes required to produce products using multi axis CNC turning equipment.
- Establish uniform dimensioning and tolerancing practices on manufacturing drawings.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Machining Technology Level II

Course	Units
Required courses:	
ET 104 Introduction to Engineering Drawing and Manufacturing	2.0
WELD 140 Manufacturing Processes	3.0
ET 150 Metrology and CNC Machining	2.0
Total:	**7.0**

Sustainability Certificate

The Sustainability Certificate Program is designed for working professionals, business owners, and students working towards a degree who wish to incorporate sustainability concepts into their existing or future educational pathways and careers.

Learning Outcomes

Upon completion of this program, students will be able to:

- Evaluate evidence regarding the causes and consequences of human impacts on the environment and societal welfare.
- Apply scientific, economic, and sociopolitical concepts and models to both critically evaluate and propose sustainable solutions to environmental degradation and resource depletion.
- Apply methods of scientific inquiry to collect, analyze, and interpret environmentally relevant data in laboratory or field settings.
- Assess future career or educational goals in the field of sustainability.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Sustainability

Course	Units
Required	
ENVS 31 Introduction to Environmental Science	3.0
ENVS 31L Environmental Science Laboratory	1.0
ENVS 91 Applied Research in Sustainability	2.0
Choose 10 units from the following courses	
BIO 19 Ecology	4.0
ENRG 3 Introduction to Alternative Energy	3.0
ENRG 3L Introduction to Alternative Energy Laboratory	1.0
ENVS 5 Sustainability and the Environment Speaker Series	1.0
GEOG 1 Physical Geography	3.0
GEOG 4 Cultural Geography	3.0
GEOG 7 Economic Geography	3.0
GEOL 30 Environmental Geology	3.0
GEOL 30L Environmental Geology Lab	1.0
GEOG 41A Climate Change	1.0
OCAN 1 Oceanography	3.0
OCAN 1L Oceanography Lab	2.0
POLS 22 Environmental Politics and Policy	3.0
** **Up to 3 units from the following weekend field courses:**	
GEOL 21A San Francisco Coastal Geology	0.5
GEOL 21B San Francisco Geology	0.5
GEOL 21C The San Andreas Fault System	0.5
BIO 21A Ecology of San Francisco Bay	1.0
BIO 21B Ecology of the City of San Francisco	1.0
BIO 21C Ecology of Golden Gate National Recreation Area	1.0
BIO 21D Ecology of Point Reyes National Seashore	1.0
BIO 21E Ecology of Coastal Mendocino County	1.0
BIO 21F Ecology of the San Francisco Bay Delta	1.0

BIO 21J Agroecology	1.0
BIO 26 Habitat Restoration Field Studies	1.0
Total:	**16.0**

Basic Electronics Certificate

The Certificate in Basic Electronics includes instruction in the fundamental principles of electronics. Students will be able to apply this knowledge and understanding to perform tests, troubleshooting and repair of analog and digital electronic circuits and instruments. Program provides instruction in the building of circuits that demonstrate an understanding of basic electronics device principles. Students will also learn how to develop procedural methods in troubleshooting and repair of analog and digital circuits and instruments.

Learning Outcomes

Upon completion of this program, students will be able to:

- Construct electronic circuits from schematics.
- Employ industry accepted procedures with typical electronic test and measurement equipment to verify circuit performance.
- Perform calculations as related to circuit components and parameters.
- Integrate discrete and IC components into functioning end products.
- Resolve schematic and build errors.

A minimum of two of the courses required for the Certificate of Accomplishment in Basic Electronics must be taken at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Basic Electronics

Course	Units
Required	
ET 50 Technical Mathematics	4.0
ELEC 101 Electronics I: Essentials of Electronics Measurements and Passive Circuits	2.5
ELEC 102A Electronics II: Active Analog Circuits and Practical Applications	2.5
ELEC 102B Electronics II: Digital Circuits and Practical Applications	2.5
Total:	**11.5**

Intermediate Electronics Certificate

The Certificate in Intermediate Electronics provides advanced electronics instruction building upon foundations provided in the Basic Electronics Certificate. Students will be instructed in the implementation of projects utilizing industry standard electronic devices, learning their associated functions and principles. With these additional skills and knowledge, students will be able to resolve common software, hardware, and interface errors in electronic systems of increasing complexity.

Learning Outcomes

Upon completion of this program, students will be able to:

- Construct electronic circuits using discrete and IC components from schematics.
- Verify circuit performance using typical electronic test and measurement equipment following industry accepted procedures.
- Determine circuit parameters and component values via related rules and calculations.
- Design and merge analog and digital technology in modern radio circuits.
- Describe a digital design, implement and test it using design software tools.
- Program a microcontroller to interface to electrical and electromechanical devices.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Intermediate Electronics

Course	Units
Required	
ELEC 101 Electronics I: Essentials of Electronics Measurements and Passive Circuits	2.5
ELEC 102A Electronics II: Active Analog Circuits and Practical Applications.	2.5
ELEC 103A Electronics III: Analog Circuits and Practical Applications	2.5
ELEC 103B Electronics III: Digital Circuit Interfaces and Programming	2.5
ELEC 104A Electronics IV: Wireless and Industrial Communication Systems.	2.5
ELEC 104B Electronics IV: Microcontroller Interfaces and Programming	2.5
Total:	**15.0**

Computer Aided Design (CAD)-Architectural Certificate

This certificate includes instruction in technical drawing and the use of software tools to create 2-dimensional and 3-dimensional models for use in architecture, building science, and building information models. Students will gain significant practice in creating models through extensive lab work using industry standard software tools. This certificate program provides skills valuable to architects, construction trades, and engineers in industries where high quality building drawings are needed.

Learning Outcomes

Upon completion of this program, students will be able to:

- Create architectural drawings using CAD and illustration software programs.
- Employ drawing and illustration skills essential for the architectural, construction and building trades industries.
- Evaluate the software or techniques most effective for three dimensional parametric building design.
- Draw and dimension precisely as per ANSI standards.
- Recognize industry standards and apply them in architectural drawings and documents.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Computer Aided Design (CAD)-Architectural

Course	Units
Required	
ARCH 20 Architectural Graphics I	3.0
BIM 120 Revit Architecture I	3.0
ARCH 214 AutoCAD I	3.0
Choose 5 units from the following courses	
CAD 184 Structural Building Information Modeling (BIM) in Revit	2.5
CAD 187 Mechanical, Electrical, and Plumbing (MEP) Building Information Modeling (BIM) in Revit	2.5
CAD 190 Part Modeling in SOLIDWORKS®	2.5
Total:	**14.0**

Computer Aided Drafting (CAD) Certificate

This certificate includes instruction in technical drawing and the use of software tools to create 2-dimensional and 3-dimensional models. Students will gain significant practice in creating models through extensive lab work using industry standard software tools. This certificate program provides skills valuable to machinists, manufacturers, architects, technicians, and engineers in industries where high quality technical drawings are needed.

Learning Outcomes

Upon completion of this program, students will be able to:

- Create drawings using CAD and illustration software programs.
- Apply drawing and illustration skills essential for employment in architectural, engineering, construction and manufacturing industries.
- Evaluate which software or technique is most effective for a particular goal.
- Dimension precisely as per ANSI standards.
- Evaluate industry standards and their purpose in technical documents and illustrations.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Computer Aided Drafting (CAD)

Course	Units
Required	
CAD 180 Introduction to Technical Drawing*	1.0
CAD 181 Introduction to Computer Aided Drafting CAD I	2.5
CAD 182 Engineering Detailing in Revit®	2.5

* Students may substitute the following for CAD 180: Completion of ET 104, or demonstration of prior drafting and drawing skills by performing at satisfactory level on a test.

Choose 3 of the following courses	
CAD 184 Structural Building Information Modeling (BIM) in Revit	2.5
CAD 187 Mechanical, Electrical, and Plumbing (MEP) Building Information Modeling (BIM) in Revit	2.5
CAD 190 Part Modeling in SOLIDWORKS®	2.5
CAD 99A 3D Printing & Solid Modeling	1.0
and CAD 99B Advanced AutoCAD Techniques	1.0
Total:	**13.0 – 13.5**

Manufacturing and Fabrication Certificate

This certificate program is designed to provide instruction in basic welding, machining, and fabrication processes. Students completing this certificate program will be qualified for manufacturing apprenticeships or internships.

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform welding tasks using gas and arc welding equipment.
- Plan, design, and fabricate basic multi-part prototypes.
- Operate machine shop and welding equipment safely.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Accomplishment in Manufacturing and Fabrication

Course	Units
Required	
WELD 140 Manufacturing Processes	3.0
WELD 144A Survey of Welding Processes	2.0
WELD 144B Intermediate Welding Processes	2.0
Choose 3-5 units from the following	
CAD 190 Part Modeling in SOLIDWORKS®	2.5
ELEC 101 Electronics I: Essentials of Electronics Measurements and Passive Circuits	2.5
WELD 144C Advanced Welding Processes	2.0
ENGN 48L Introduction to Engineering and Technology Laboratory	1.0
ET 104 Introduction to Engineering Drawing and Manufacturing	2.0

ENGN 48L & ET 104 must both be taken for the 3 units to apply towards the certificate

Total:	**10.0 – 12.0**

Welding Technology Level I Certificate

The Welding Technology program provides students with training in oxy-acetylene cutting, AC/DC shielded metal arc welding, gouging, semi-automatic gas metal arc welding, flux core welding and tungsten inert gas welding. Training in the planning, layout, forming, joining, and fabrication of various shapes in light and heavy gauge metal and pipes is provided. Students will work on various projects throughout the time they are enrolled in the welding program.

Learning Outcomes

Upon completion of this program, students will be able to:

- Demonstrate the use of welding and metal cutting processes safely and correctly
- Perform diverse welding procedures on steel test plates in two or more welding positions.
- Select and calibrate welding and cutting methods to fabricate assigned projects

Students may apply for certificate having completed course work within the past 5 years.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Welding Technology Level I

Course	Units
Required courses:	
WELD 144A Survey of Welding Processes	2.0
WELD 144B Intermediate Welding Processes	2.0
WELD 144C Advanced Welding Processes	2.0
Total:	**6.0**

Announcement of Courses

Biotechnology

Credit, Degree Applicable Courses:

BTEC 4. Introduction to Biotechnology (3)
Lec-35, Lab-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the growing field of biotechnology by pairing practical hands-on laboratory activities with career presentations by scientists and industry professionals. Basic biological concepts are covered along with discussions of careers in biomanufacturing, forensics, agriculture, biofuels, bioinformatics and drug discovery. UC/CSU

BTEC 5. Briefings in Biotechnology (1)
Lec-18 P/NP available
Career professionals in biotechnology and related fields will discuss their current bioscience programs and provide information on career opportunities and pathways. Presentations will cover basic research, new products, processes, and prospects for the future in medicine, environmental restoration, forensics, and agriculture. Implications for society and governmental regulations will also be discussed. UC/CSU

BTEC 6. Basics of Cell Culture (1)
Lec-9, Lab-27, field trips P/NP available
Prereq: Completion of high school general Biology course
Introduction to mammalian cell culture and stem cell biology and techniques. Practical hands-on experience includes aseptic technique, counting cells, cell/stem cell culture maintenance, fluorescence labeling, and stem cell differentiation. CSU
Offered only in Summer semesters

BTEC 10. Research Skills for Career Opportunities in Biology (2)
Lec-17.5, Lab-52.5 P/NP available
Coreq: BTEC 107 and BTEC 108A
Recommended Prep: (ESLN 3700 or ESL 182) or (placement into ESLN 3800 or ESL 184)
Introduction to the laboratory skills and concepts necessary to work in the biotechnology industry, allied health or other biology-related fields. This course is part of the learning community Bridge to Biosciences program. CSU

BTEC 12A. GLP and GMP Principles (1)
Lec-18, Lab-6, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A general overview of Food and Drug Administration regulations as they pertain to the biotechnology field. Knowledge of Current Good Laboratory Practices (cGLP) and Current Good Manufacturing Practices (cGMP) is needed to work in biotechnology manufacturing and preclinical research laboratories. The course will emphasize those practices as they pertain to the biopharmaceutical industry. CSU

BTEC 14A. Biotechnology Laboratory Techniques (3)
Lec-43.75, Lab-26.25 P/NP available
Recommended Prep: BIO 11 and (ESL 188 or readiness for college-level English; Completion of or concurrent enrollment in: BTEC 108A
An introduction to laboratory techniques needed for entry-level positions in the biotechnology industry and research laboratories. The course covers basic lab skills such as solution making, bacteria cultures, plasmid DNA and protein purification. Intended as an introductory class for the students in preparation of the more advanced biotechnology classes and/or an internship in a biotechnology lab. CSU

BTEC 14B. Biotechnology Internship Support (4)
Lec-70, field trips
Prereq: BTEC 15 and completion of 4 units of BTEC classes with wet-lab components with a grade of C or better. The students may choose from these classes: BTEC 14A, BTEC 20, BTEC 21C, BTEC 22, BTEC 23, BTEC 24, BTEC 25, BTEC 103, BTEC115 and BTEC 120.
Coreq: BTEC 93
Support for student interns placed in local bioscience laboratories. Provide tools to effectively communicate internship experience, present scientific concepts and network with professionals in the field. Types of internships may include, but are not limited to, basic research, biomanufacturing, quality control, environmental sciences, and food sciences. CSU
Instructor approval and completion of minimum of 4 units of CCSF BTEC classes with wet-labs is required.

BTEC 15. Career Exploration in Bioscience (2)
Lec-35, Lab-17.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188; Completion of or concurrent enrollment in: Any biotechnology laboratory course at CCSF
Students will explore various careers in bioscience through online research, informational interviews and interactions with industry professionals. Students will present a summary of a chosen bioscience topic at a scientific meeting. Students will communicate and network with industry professionals, and attend professional workshops and seminars to gain career skills needed for finding internships and jobs in the biotechnology fields. CSU

BTEC 20. Mammalian Cell Culture (3)
Lec-48, Lab-24
Recommended Prep: BIO 11; BTEC 108A; Completion of or concurrent enrollment in: CHEM 32
Introduction to techniques for culturing and maintaining mammalian cells, including proper use of equipment, aseptic technique, media formulation, storage, counting and subculturing of cells. Contents include proper growth conditions, cell cycle regulation, cellular responses to DNA damage, growth patterns, viability assays, transfection and an introduction to the use of fluorescent molecules in visualization of cellular structures. CSU

BTEC 21A. Mammalian Cell Culture (2)
Lec-36, Lab-18, field trips P/NP available
Recommended Prep: ((ET 108A or (elementary algebra or higher)) and BIO 11 and (CHEM 32 or CHEM 40)
Introduction to techniques for culturing mammalian cells, including media formulation, aseptic technique, freezing, thawing, subculturing, and maintaining cells. Theory includes maintaining proper growth conditions, preventing contamination, as well as cellular responses to DNA damage and gene expression. Practical experience includes the proper use and care of equipment for culturing cells and performing cell growth and viability assays. CSU

BTEC 21B. Fluorescent Cell Technology (2)
Lec-36, Lab-18, field trips P/NP available
Prereq: BTEC 21A
Introduction to advanced techniques in the study of normal and mutant tissue culture cells including organelle visualization with various fluorophores, transfection with fluorescent markers, and immunostaining. In depth coverage of the theory behind and use of fluorescent microscopy and current research methods using fluorescent technology, including apoptosis assays and immunocytochemistry, DNA microarrays and FACS analysis. CSU

BTEC 21C. Stem Cell Technology (3)
Lec-52.5, Lab-17.5, field trips P/NP available
Prereq: BTEC 21B or BTEC 20
A general introduction to the principles of stem cell biology. Topics include embryonic stem cells in early development, adult stem cells, and potential applications of stem cell culture and ethical issues involved in stem cell research. Current research methods involving cell differentiation and fluorescent technology will be presented. Emphasis on laboratory techniques including culture of mouse embryonic stem cells, analysis of stem cells by immunofluorescence and flow cytometry. CSU

BTEC 21D. Introductory Stem Cell Internship Support (4)
Lec-70
Prereq: BTEC 21C
Coreq: BTEC 93
Provides the necessary communication tools for beginning students placed in off-campus stem cell biology internships. Emphasis is put on demonstrating how their work contributes to the overall the scientific research being conducted at their internship site. Types of internships may include, but are not limited to, differentiation of pluripotent stem cells, FACS analysis, primary cell culture, propagation of iPS cells, immunolocalization, microarray analysis and tumor cell characterization. CSU
Offered Fall semesters

BTEC 21E. Advanced Stem Cell Internship Support (4)
Lec-70
Prereq: BTEC 21D
Coreq: BTEC 93
Development of complex analysis and enhanced scientific presentation skills necessary for continuing students placed in off-campus stem cell biology internships. Students will complete and present a novel research project. Types of internships may include, but are not limited to, differentiation of pluripotent stem cells, FACS, cell culture, propagation of iPS cells, immunolocalization, micro array analysis and tumor cell characterization. CSU
Offered Spring semesters

BTEC 22. Enzyme Linked Immunosorbent Assay (ELISA) (1)
Lec-17.5, Lab-10.5, field trips P/NP available
Recommended Prep: BIO 11 and (elementary algebra or higher)
Underlying principles of immunoassay with focus on ELISA. Examples of ELISA techniques and applications in the pharmaceutical, environmental, biotechnology, and clinical laboratory settings will be discussed. Laboratory exercises and discussions cover qualitative and quantitative data analysis and direct, indirect, sandwich, and competitive ELISA methods. CSU

BTEC 23. Western Blotting Techniques (1)
Lec-16, Lab-8, field trips P/NP available
Recommended Prep: BIO 11 and ((BTEC 108A or (elementary algebra or higher))
Underlying principles of immunoassay with focus on Western blots. Discussion of applications of Western blotting techniques used in the pharmaceutical, biotechnology, and clinical laboratory settings. Laboratory exercises feature hands-on exercises emphasizing all aspects of Western blotting, including running protein gels, blotting, immunodetection, and data analysis. CSU

BTEC 24. Introduction to PCR (1)
Lec-16, Lab-8 P/NP available
Recommended Prep: BIO 11 and ((BTEC 108A or (elementary algebra or higher))
Introduction to the theoretical aspects and laboratory techniques of the Polymerase Chain Reaction (PCR). Practical experience performing PCR as well as experimenting with optimization of the reaction. Discussion of applications of PCR used in biotechnology industry, basic science, forensics, epidemiology, diagnostics, and determination of evolutionary relationships. CSU

BTEC 25. Analytical PCR Technology (1)
Lec-16, Lab-8 P/NP available
Prereq: BTEC 24 or demonstration of BTEC 24 exit skills
The theory and practice of current polymerase chain reaction (PCR) analytical methods. Laboratory experience in techniques such as multiplex PCR, reverse transcriptase PCR (RT-PCR), and real-time PCR. Experimental optimization is emphasized. CSU

BTEC 93. Biotechnology Work experience (1-8)
Work-60-600 P/NP available
Prereq: Approval of the Engineering and Technology Department
Coreq: BTEC 14B or BTEC 21D or BTEC 21E
Repeat: Repeated max. 16.00 units
Work experience for students in the Biotechnology Program through internships in the biotechnology industry. Students do internships in local academic/government institutions and biotechnology companies. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid internship. CSU

BTEC 103. Protein Purification (2)
Lec-28, Lab-28 P/NP available
Recommended Prep: CHEM 32 and (BIO 11 or BTEC 10) and BTEC 120
An introduction to protein purification techniques including sample preparation, column chromatography, and analysis of purification. Hands on training with manual and automated chromatography systems used in industry and research laboratories. Purification analysis includes gel electrophoresis, specific activity, and mass balance calculations. CSU

BTEC 107. Language Skills for Technicians (3)
Lec-52.5, Lab-17.5
Coreq: BTEC 10 and BTEC 108A
Recommended Prep: (ESLN 3700 or ESL 182) or (placement in ESLN 3800 or ESL 184
Introductory level lecture course covering basic scientific language and concepts of biology and chemistry, and the academic study skills needed to succeed in science courses. An orientation to the field of biotechnology and professional opportunities. CSU
BTEC 108A is part of a learning community for Bridge to Biosciences. Concurrent enrollment in BTEC 10 and BTEC 107 is required. For more info, contact Li Lovett by email: lmiao@ccsf.edu

BTEC 108A. Practical Mathematics for Laboratory Science (2)
Lec-35 P/NP available
Recommended Prep: (ESLN 3700 or placement into ESLN 3800) and (elementary algebra or higher)
Concepts, techniques and applications of mathematics and elementary algebra emphasizing applications to practical problems in biotechnology and chemistry. Use of traditional problem solving methods and interactive group activities. CSU

BTEC 115. Recombinant DNA Biotechnology (5)
Lec-52.5, Lab-105, field trips P/NP available
Recommended Prep: BIO 11 and CHEM 32
In-depth coverage of current recombinant DNA methods and concepts of modern genomics. Emphasis on laboratory work using techniques such as culture of bacteria, DNA and RNA purification, plasmid DNA construction, cDNA synthesis, real-time PCR, and use of software tools to analyze DNA sequences. CSU
Formerly BIO 65 Offered Fall semesters
Offered Fall semesters

BTEC 120. Molecular and Cell Biotechnology (5)
Lec-52.5, Lab-105, field trips P/NP available
Recommended Prep: BIO 11 and (CHEM 32 or CHEM 40)
Introduction to the principles and techniques of molecular and cell biology and protein analysis. Emphasis on lab techniques, such as spectroscopy, preparation of cell lysates, Western blot, immunoprecipitation, enzyme assays, analysis of signal transduction, and stable transfection of mammalian cells. Design and analysis of molecular and cell biology experiments is taught. CSU
Offered Spring semesters

Computer Aided Drafting (CAD)

Credit, Degree Applicable Courses:

CAD 99A. 3D Printing & Solid Modeling (1)
Lec-17.5, Lab-17.5 P/NP available
Overview of 3D Printing, from its origins to its revolutionary future, and its impact on the design process. Produce a simple part in a 3D modeling software and print it. Experience using two significant categories of 3D printers. CSU

CAD 99B. Advanced AutoCAD Techniques (1)
Lec-17.5, Lab-17.5 P/NP available
Recommended Prep: CAD 181
Advanced AutoCAD techniques including 3D modeling and rendering, customization, external references, and data linking and management. CSU

CAD 180. Introduction to Technical Drawing (1)
Lec-8.75, Lab-26.25 P/NP available
Introduction to engineering and technical drawing techniques, the systems of drawings and their applications in design, and the basic shape description of products. Technical sketching; dimensioning; sections and applications of orthographic projection standards in technical documents. CSU

CAD 181. Introduction to Computer Aided Drafting - CAD I (2.5)
Lec-35, Lab-35 P/NP available
Recommended Prep: CAD 180 or ET 104 or 1 year H.S. Drafting
Introduction to Computer Aided Drafting (CAD) hardware and software operations and their applications in drafting; basic shape description, display, editing, dimensioning and plotting. UC/CSU

CAD 182. Engineering Detailing in RevitÂ® (2.5)
Lec-35, Lab-35 P/NP available
Recommended Prep: CAD 180 or ET 104 or equivalent skills/course work with 100 hours of industrial work experience in basic AutoCAD
An introduction to Autodesk's Revit? software for various platforms, including mechanical, electrical and plumbing (MEP) systems, structural engineering, architectural design, and engineering construction industry. Students are introduced to basic concepts of 2D and 3D modeling to generate building plans, sections, elevations, details and 3D views. Students learn to utilize Building Information Modeling (BIM) tools. CSU
Offered Spring semesters

CAD 184. Structural Building Information Modeling (BIM) in Revit (2.5)
Lec-35, Lab-35
Recommended Prep: CAD 182
Building Information Modeling (BIM) - The essential features and functionality of Autodesk Revit structural tools from building and schematic design through construction documentation. Topics include 3D modeling, steel and concrete detail design for fabrication, parametric building design, scheduling for materials and quantity takeoff. CSU
Offered Fall semesters

CAD 187. Mechanical, Electrical, and Plumbing (MEP) Building Information Modeling (BIM) in Revit (2.5)
Lec-35, Lab-35
Recommended Prep: ARCH 214 or CAD 181 or demonstration of CAD 181 exit skills
HVAC (Heating, Ventilation & Air Conditioning) and piping system design using parametric application software such as AutoDesk's Revit-MEP . Introduction to computer generated documents to specify HVAC and piping systems layout and details. HVAC and process pipe industry drawing standards. Mechanical design including determination of equipment sizes. CSU
Offered Spring semesters

CAD 190. Part Modeling in SOLIDWORKS? (2.5)
Lec-35, Lab-35 P/NP available
Recommended Prep: CAD 181
Extension of CAD-based graphics into 3-dimensional parametric modeling, realistic rendering, animation of assemblies, and exploded views. Introduction to a 3D parametric modeling software such as SOLIDWORKS?. Create a computer-generated physical 3D model using a state-of-the-art 3D printer. CSU

Electronics

Credit, Degree Applicable Courses:

ELEC 101. Electronics I: Essentials of Electronics - Measurements and Passive Circuits (2.5)
Lec-35, Lab-35
Recommended Prep: ET 50 or (elementary algebra or higher)
Study the construction and analysis of basic electronic circuits, including capacitors and inductors. Use of the multi-meter to measure DC and AC voltages and currents in resistive series/parallel circuits and the oscilloscope for AC, pulsed waveforms, phase, and time delay measurements. Computer simulation software (Multisim) to analyze circuits. CSU

ELEC 102A. Electronics II: Active Analog Circuits and Practical Applications (2.5)
Lec-35, Lab-35
Recommended Prep: ELEC 101 or demonstration of exit skills
This course covers diode characteristics, power supplies, bipolar transistors, simple one-stage amplifiers, constant current sources, and transformers. The students will learn the intermediate use of the oscilloscope and multi-meter for both calibration and troubleshooting. Hands-on electronic projects include building their own power supply, a current regulator, and various amplifier circuits. CSU

ELEC 102B. Electronics II: Digital Circuits and Practical Applications (2.5)
Lec-35, Lab-35
Recommended Prep: ELEC 101 or demonstration of ELEC 101 exit skills
This course covers Boolean logic concepts, flip-flops, memory, counters, clocks, display decoders, and timers. Analysis of digital logic principles is practiced by building and testing functional and practical projects. There will be intense hands-on troubleshooting using logic analyzers, signal generators and digital multimeters. Standard industry testing methods, equipment, and protocols are used throughout the course. CSU

ELEC 103A. Electronics III: Analog Circuits and Practical Applications (2.5)
Lec-35, Lab-35
Prereq: ELEC 102A or demonstration of exit skills
Introduction to intermediate analog electronic circuits, including field effect transistor basics, various analog amplifiers, operational amplifiers and their use. Hands-on electronic projects include building summing and difference amplifiers, audio amplifiers, and AM/FM radios. CSU
Offered Spring semesters

ELEC 103B. Electronics III: Digital Circuit Interfaces and Programming (2.5)
Lec-35, Lab-35
Prereq: ELEC 102B or demonstration of exit skills.
Course covers digital interfaces and hardware programming. Topics include digital to analog interfacing using integrated circuits, programmable logic devices, field programmable gate arrays (FPGA), hardware description languages (e.g. VHDL and Verilog), and computer memory. Course requires hands-on project construction and troubleshooting. Industry standard testing methods, equipment, and protocols are used throughout the course. CSU
Offered Fall semesters

ELEC 104A. Electronics IV: Wireless and Industrial Communication Systems (2.5)
Lec-35, Lab-35
Prereq: ELEC 102A or demonstration of exit skills.
This course covers wireless communications systems, industrial communication protocols, and industrial control systems, including programmable logic controllers. Analog and digital systems will be explored. The course also provides an introduction to antennas, amplifiers, and microwave signals. CSU
Offered Fall semesters

ELEC 104B. Electronics IV: Microcontroller Interfaces and Programming (2.5)
Lec-35, Lab-35
Prereq: ELEC 102A or demonstration of exit skills
Recommended Prep: ELEC 102B
Hands-on microcontroller interfacing, driver programs, input sensors, output electrical, and electromechanical devices. CSU
Offered Spring semesters

Energy

Credit, Degree Applicable Courses:

ENRG 3. Introduction to Alternative Energy (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to the science that underpin alternative energy resources and their implementation in various contexts. Covers: fundamental energy science and math; climate change; national and global energy trends; solar, wind, and hydro resources; photoelectric effect; photosynthesis; geothermal; and nuclear. Explores decarbonization of the energy system and integration of distributed energy resources. UC/CSU

ENRG 3L. Introduction to Alternative Energy Laboratory (1)
Lab-52.5, field trips
Recommended Prep: Completion of or concurrent enrollment in: ENRG 3
Physical science oriented laboratory course focused on alternative energy. Provides experimental understanding of the scientific principles that drive renewable energy systems. Solar, wind, fuel cells, geothermal, combustion and other energy experiments. Gain critical hands-on insight into the advantages and limitations of each energy system. UC/CSU
Offered Spring semesters

Engineering

Credit, Degree Applicable Courses:

ENGN 10A. Introduction to Engineering: The Profession (2)
Lec-35
The history and development of engineering as a profession. Engineering disciplines, job functions, educational requirements, transfer school information, academic success strategies, workplace skills, engineering ethics, sustainability principles applied to engineering, current and projected activities in the various branches of engineering. UC/CSU

ENGN 10B. Introduction to Engineering: Software Tools and Design (2)
Lec-17.5, Lab-52.5
Prereq: MATH 90 or MATH 92 or placement in MATH 100A or MATH 110A
Introduction to team-oriented engineering design, problem solving processes, and the use of computers in the solution of engineering problems, including commercial spreadsheet applications and analysis/graphics

applications. Emphasis on technical communication, teamwork, engineering design and problem solving methodologies. Multiple hands-on design projects. UC/CSU

ENGN 20. Introduction to Circuit Analysis (3)
Lec-52.5
Prereq: Completion of or concurrent enrollment in: MATH 110C and PHYC 4B
Recommended Prep: ENGN 10B
Introduction to circuit analysis. Determination of the natural, forced and complete responses of zero, first and second-order networks. Standard circuit-analysis techniques including Kirchhoff's Laws, mesh and nodal analysis, Thevenin and Norton's Theorems, generalized impedance and admittance techniques and phasor methods. UC/CSU

ENGN 20L. Introduction to Circuit Analysis Laboratory (1)
Lab-52.5
Prereq: Completion of or concurrent enrollment in: ENGN 20
Recommended Prep: ENGN 10B
An introduction to the construction and measurement of electrical circuits exercising DC, transient, and sinusoidal steady-state (AC) conditions. Use of test and measurement instruments, including multimeters, oscilloscopes, power supplies, and function generators. Introduction to component value tolerance and non-ideal aspects of laboratory instruments. Use of circuit simulation software. Interpretation of measured and simulated data based on principles of circuit analysis. UC/CSU

ENGN 24. Engineering Design Graphics (3)
Lec-35, Lab-52.5
Prereq: ET 50 or MATH 95 or demonstration of exit skills
Principles of visually communicating engineering designs. Topics include technical sketching, technical drawing, engineering graphics and design; 3-D visualization with orthographic projection; dimensioning and tolerancing practices; computer aided drafting/design (CAD) software; graphical analytical methods of solutions to three-dimensional problems. Assignments develop sketching and 2-D and 3-D CAD skills. The use of CAD software is an integral part of this course. UC/CSU

ENGN 36. Engineering Mechanics-Statics (3)
Lec-52.5
Prereq: PHYC 4A; Completion of or concurrent enrollment in: MATH110C
Recommended Prep: ENGN 10B
A first course in engineering mechanics: properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia. UC/CSU

ENGN 37. Engineering Mechanics-Dynamics (3)
Lec-52.5
Prereq: ENGN 36
An introductory calculus-based course in dynamics covering kinematics and kinetics of particles, systems of particles, rigid bodies, and systems of rigid bodies. Applications of Newton's Second Law, the Work-Energy Theorem, the Principle of Impulse and Momentum, Coriolis acceleration and impact. UC/CSU

ENGN 38. Introduction to Programming Concepts and Methodologies for Engineers (3)
Lec-52.5, Lab-17.5
Prereq: MATH 100A or MATH 110A
Engineering problem solving using computer programming. Topics include problem solving strategies, algorithm development, structured programming design, the interface of software with the physical world (e.g., the use of sensors or real world data), and the application of numerical techniques. UC/CSU

ENGN 45. Materials Science for Engineers (3)
Lec-35, Lab-52.5
Prereq: CHEM 101A or CHEM 103A; PHYC 4A and PHYC 4AL
Recommended Prep: ENGN 10B; Completion/concurrent enrollment in CHEM 101B; and PHYS 4B/4BL
An introductory course in the fundamental science of materials used by engineers. Emphasis on structure and properties. Some processing and applications of materials is also covered. Finally, a strategy is developed for the selection and use of these materials in engineering design. UC/CSU

ENGN 48L. Introduction to Engineering and Technology - Laboratory (1)
Lab-52.5 P/NP available
A project-oriented, hands-on course to introduce students to the practices and methodologies used in Engineering and Technology. Areas of focus are electronics, mechanical construction/fabrication and technical mathematics. CSU

Engineering Technology

Credit, Degree Applicable Courses:

ET 50. Technical Mathematics (4)
Lec-70
Prereq: (ET 108B or demonstration of ET 108B exit skills) or (MATH 90 and MATH 95) or placement into MATH 110A
Applied mathematics designed to develop the ability to solve technical problems. Practical application of algebra, geometry, and trigonometry to basic problems in the applied sciences, including the study of alternating current circuitry with emphasis on periodic functions, vector analysis, logarithms, and exponential functions. CSU

ET 104. Introduction to Engineering Drawing and Manufacturing (2)
Lec-17.5, Lab-52.5
Fundamental drafting techniques including sketching, orthographic projection and dimensioning. Development of detailed drawings (electrical, electronic, and mechanical) for the fabrication of individual projects. Sheet metal shop practices; use of hand tools; measurement and layout techniques. Printed circuit board design and fabrication. Machine tools and machine shop operations. CSU

ET 108A. Practical Mathematics I (3)
Lec-52.5, Lab-17.5
Concepts, techniques and applications of arithmetic and elementary algebra emphasizing applications to practical problems. Interactive and traditional problem solving methods. Class interactive group exercises applying mathematical techniques to various applications and real world problems. CSU

ET 108B. Practical Mathematics II (3)
Lec-52.5, Lab-17.5
Prereq: ET 108A or (intermediate algebra or higher)
Fundamentals of trigonometry and advanced algebra emphasizing

their applications in real world problems. Interactive laboratory work in which students can apply mathematical techniques to physical applications. Class interactive group exercises applying mathematical techniques to various applications and real world problems. CSU

ET 130. Applied Fluid Mechanics for Mechanical Engineering Technology (3)
Lec-52.5
Recommended Prep: Elementary algebra or higher
An introduction to fluid statics and the basic laws of fluid flow; conservation of mass, momentum and energy. Applications of the basic laws to internal and external incompressible flow, including specific topics in pipe flow systems, centrifugal pumps and fans, streamlining, fluid flow meters, psychometrics of air and water-vapor mixtures, and basic elements of air conditioning. Use of psychometric instruments and psychometric charts to graphically analyze processes. CSU
Replaces ET 135A and ET 139C

ET 136A. HVAC System Fundamentals (2)
Lec-26.25, Lab-26.25
Recommended Prep: Completion of or concurrent enrollment in: ET 130
Calculations of cooling loads. Applications of heat transfer and air handling equipment. Design of air-conditioning systems. Analysis of air conditioning equipment, components, and control systems. Lab work including instruments and instrumentation for measuring air flow. CSU
Formerly ET 135B

ET 136B. Fundamentals of Air Conditioning and Refrigeration (2)
Lec-26.25, Lab-26.25
Recommended Prep: Completion of or concurrent enrollment in: ET 130
The refrigeration cycle, refrigeration systems, heat transfer components, and control systems. Laboratory work in operational characteristics of working systems. Analysis of refrigeration systems. Measurements of pressure, temperature and flow rates. Details of the function and interrelation of system components. CSU
Formerly ET 135C

ET 139A. Engineering Plumbing Systems (3)
Lec-52.5
Recommended Prep: ET 130
Flow of liquids in domestic water, rainwater and fuel gas piping systems, sanitary drainage piping and sizing drainage systems, flow of air in vent piping, sewer systems. Study of national and local codes, specifications and case problems. CSU
ET 139A and ET 139B are non-sequential and may be taken in either order.
Offered Spring semesters

ET 139B. Plumbing System Design Fundamentals (3)
Lec-52.5, field trips
Recommended Prep: ET 130
Design and sizing for a wide variety of plumbing systems, acoustics in plumbing construction, plumbing system specifications, plumbing construction costs, coordination of plumbing design with other construction work, energy conservation and review of plumbing installations. CSU
ET 139A and ET 139B are non-sequential and may be taken in either order.
Offered on occasion

ET 140. Facility Automation and PLCs (2)
Lec-17.5, Lab-52.5
Prereq: ET 50 or equivalent math course
Recommended Prep: ELEC 101
This course introduces Programmable Logic Controllers (PLCs) and explains how they can be used in a plant, manufacturing system, or part of centralized control of a building's heating, ventilation, and air conditioning (HVAC) system. There will be practical applications and exercises using PLCs in the workplace. CSU

ET 150. Metrology and CNC Machining (2)
Lec-17.5, Lab-52.5
Prereq: ET 104
Introduction to computer numerical control (CNC) training in G and M codes. Hands on training on CNC machines: testing, debugging, and running programs. Identify the elements of machine drawings; interpret dimensions, tolerances, and geometric aspects of blueprints; and explain Geometric Dimensioning and Tolerancing (GD&T) symbols and their meanings CSU

Environmental Science and Sustainability

ENVS 5. Sustainability and the Environment Speaker Series (1)
Lec-18, field trips P/NP available
Recommended Prep: Background in environmental science; Completion of or concurrent enrollment in: ENVS 31
Students will hear from professionals and experts from government, private, non-profits and public sectors as they share their insights on careers in sustainability and the environment. Career opportunities, academic and job training pathways will also be discussed. CSU
Formerly SUST 5

ENVS 31. Introduction to Environmental Science (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An examination of the scientific evidence informing our understanding of the causes and consequences of human impacts on the environment. Application of core principles, methods, qualitative and quantitative reasoning from the natural sciences, social sciences, and engineering and technology to investigate and evaluate sustainable solutions to environmental degradation and resource depletion. UC/CSU
Formerly SUST 31 = BIO 31 = GEOG 31
Offered every semester

ENVS 31L. Environmental Science Laboratory (1)
Lab-52.5, field trips P/NP available
Prereq: Completion of or concurrent enrollment in: ENVS 31
An introduction to tools and techniques used by environmental scientists to investigate human impacts on the environment in lab and/or field settings. Application of qualitative and quantitative concepts and models to evaluate environmental problems and their proposed solutions. CSU
Formerly also listed as BIO 31L, GEOG 31L, and SUST 31L
Offered every semester

ENVS 91. Applied Research in Sustainability (.5-8)
Work-30-600, field trips P/NP available
Prereq: Approval of Engineering & Technology Department
Recommended Prep: ENVS 31
Repeat: Repeated up to 16.00 Units

Internship in sustainability-related settings (such as environmental education, alternative energy systems, sustainable water systems, green building, habitat restoration, urban agriculture) under the supervision of a qualified professional. The student will need to arrange the internship and then contact the instructor to enroll in this class. Suggestions and strategies are available on course website. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
Formerly SUST 91

Geographic Information Systems*

* See Earth Sciences.

Welding

Credit, Degree Applicable Courses:

WELD 140. Manufacturing Processes (3)
Lec-26.25, Lab-78.75
Elementary machine tool practice, with special emphasis on the use of the lathe engine, horizontal and vertical milling machines, and drill press. CSU

WELD 144A. Survey of Welding Processes (2)
Lec-26.5, Lab-26.5
Classroom instruction and laboratory practice in joining metal by welding. This course is designed to provide the safe and operational uses of the basic welding processes including oxy/fuel welding, oxy/fuel cutting, and Gas Tungsten Arc Welding (GTAW). This course provides students with cutting and welding skills relevant to industry standards, welding certification requirements and general purposes. CSU

WELD 144B. Intermediate Welding Processes (2)
Lec-26.5, Lab-26.5
Prereq: WELD 144A
This course is designed to provide the safe and operational uses of intermediate welding processes including Shielded Metal Arc Welding (SMAW), Flux Core Arc Welding (FCAW) and physical testing of welds. This course covers business oriented topics such as inventory control, machine maintenance, and sustainability. This course provides students with cutting and welding skills relevant to industry standards, welding certification requirements and general purposes. CSU

WELD 144C. Advanced Welding Processes (2)
Lec-26.5, Lab-26.5
Prereq: WELD 144B
Classroom instruction and laboratory practice in joining metal by welding. This course is designed to provide the safe and operational uses of the advanced welding and fabrication processes such as Gas Tungsten Arc Welding (GTAW) of exotic materials and Gas Metal Arc Welding (GMAW) of custom objects. This course provides students with cutting and welding skills relevant to industry standards, welding certification requirements and general purposes. CSU

WELD 148. Welding Symbols and Inspection (3)
Lec-52.5
Recommended Prep: ET 50
Introduction into welding symbols, codes, terminology, metallurgy, procedures, processes; welder qualification; high-strength bolting; the basics of destructive and non-destructive examination. CSU

English

Office: Batmale 556
Phone Number: (415) 239-3406
Web Site: *www.ccsf.edu/english*

Announcement of Curricula

English Major (AA-T)

Associate in Arts in English for Transfer. CCSF's English major offers a wide variety of language, literature, and writing courses to serve students with diverse goals, including transfer to UC, CSU, or other four year colleges. English majors will be able to complete most or all of their lower division preparation at CCSF before they transfer but should see a counselor to confirm their program of study.

By taking units of Core Reading and Composition courses, students will learn techniques to produce clear, precise prose by integrating writing, reading, and research. The required units of Core Surveys of literature in English will ensure students have a broad familiarity with different eras of literary history; an additional requirement of units of Specialized Literature courses provides students with an opportunity for more focused study. If students anticipate careers in law, education, communication, writing, government, advertising, or business, the English major should serve them well.

Learning Outcomes

Upon completion of this program, students will be able to:

- Distinguish genres, themes, and contexts within a variety of works of literature.
- Employ methods of interpreting literature across genres.
- Assess, evaluate, and analyze ideas expressed in text or in spoken language.
- Write or present coherent arguments that exhibit clear prose and synthesize diverse bodies of knowledge.
- Develop and improve an original text.

Students who wish to earn the in Associate in Arts in English for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" *or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements. Students should note that ENGL 1A is a prerequisite for ENGL 1B and 1C.

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in English

Course . . . . . Units
Required Group 1: Core Reading and Composition courses:
ENGL 1B Writing about Literature 4.0

Choose 6 units from Group 2: Core Survey courses:
ENGL 30A American Literature, Beginnings to Civil War 3.0
ENGL 30B American Literature, 1865-present 3.0
ENGL 46A Survey of Literature in English, Part 1: Beowulf through Milton 3.0

ENGL 46B Survey of Literature in English, Part 2: Late-17th through the Mid-19th Century 3.0
ENGL 46C Survey of Literature in English, Part 3: Mid-19th Century to Present 3.0

Choose a minimum of 9 units from Group 3: Specialized Writing and Literature courses:

Group 2 courses not already taken.. . . . . 3.0
CLAS 35 Tragic Drama of Greece 3.0
ENGL 1C Writing about Nonfiction 4.0
ENGL 35A Introduction to Writing Fiction 3.0
ENGL 35B Intermediate Fiction Writing 3.0
ENGL 35C Introduction to Writing Poetry 3.0
ENGL 35D Intermediate Poetry Writing 3.0
ENGL 35G Introduction to Creative Nonfiction Writing 3.0
ENGL 35H Intermediate Creative Nonfiction Writing . . 3.0
ENGL 35L Introduction to Literary Magazine 3.0
ENGL 35M Intermediate Literary Magazine 3.0
ENGL 43 Introduction to Poetry 3.0
ENGL 44A Survey of World Literature, Part 1: Ancient, Medieval, and Early Modern 3.0
ENGL 44B Survey of World Literature, Part II: Early Modern to the Present 3.0
ENGL 48C Science Fiction and Fantasy 3.0
ENGL 48K The Bible as Literature 3.0
ENGL 51 The Graphic Novel as Literature 3.0
ENGL 52 Shakespeare 3.0
ENGL 54 Children's and Young Adult Literature 3.0
ENGL 57 Survey of Women's Literature 3.0
ENGL 58 Contemporary Women's Writing 3.0
ENGL 61 Literature and Film 3.0

Total: . . . . . 19.0 – 20.0

English Major (AA)

CCSF's English major offers a wide variety of language, literature, and writing courses--GE transferable units--to serve students with diverse goals, including transfer to UC, CSU, or other four year colleges. English majors will be able to complete most or all of their lower division preparation at CCSF before they transfer but should see a counselor to confirm their program of study. By taking units of Core Reading and Composition Courses, students will learn techniques to produce clear, precise prose by integrating writing, reading, and research. The required units of Core Surveys of literature in English will ensure students have a broad familiarity with different eras of literary history; an additional requirement of Specialized Literature Courses provides students with an opportunity for more focused study. If students anticipate careers in law, education, communication, writing, government, advertising, or business, the English major should serve them well.

Learning Outcomes

Upon completion of this program, students will be able to:

- Distinguish genres, themes, and contexts within a variety of works of literature.
- Employ methods of Interpreting literature across genres.
- Assess, evaluate, and analyze ideas expressed in text or in spoken language.
- Write or present coherent arguments that exhibit clear prose and synthesize diverse bodies of knowledge.
- Develop and improve an original text.

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in English

Course . . . . . Units

Required

ENGL 1B Writing about Literature 4.0

Choose 6 units from the following

ENGL 30A American Literature, Beginnings to Civil War 3.0
ENGL 30B American Literature, 1865-present 3.0
ENGL 46A Survey of Literature in English, Part 1: Beowulf through Milton 3.0
ENGL 46B Survey of Literature in English, Part 2: Late-17th through the Mid-19th Century 3.0
ENGL 46C Survey of Literature in English, Part 3: Mid-19th Century to Present 3.0

Choose three courses from the following

A core survey course not already taken 3.0
CLAS 35 Tragic Drama of Greece 3.0
ENGL 1C Writing about Nonfiction 4.0
ENGL 35A Introduction to Writing Fiction 3.0
ENGL 35B Intermediate Fiction Writing 3.0
ENGL 35C Introduction to Writing Poetry 3.0
ENGL 35D Intermediate Poetry Writing 3.0
ENGL 35G Introduction to Creative Nonfiction Writing 3.0
ENGL 35H Intermediate Creative Nonfiction Writing . . 3.0
ENGL 35L Introduction to Literary Magazine 3.0
ENGL 35M Intermediate Literary Magazine 3.0
ENGL 43 Introduction to Poetry 3.0
ENGL 44A Survey of World Literature, Part 1: Ancient, Medieval, and Early Modern 3.0
ENGL 44B Survey of World Literature, Part II: Early Modern to the Present 3.0
ENGL 48C Science Fiction and Fantasy 3.0
ENGL 48K The Bible as Literature 3.0
ENGL 51 The Graphic Novel as Literature 3.0
ENGL 52 Shakespeare 3.0
ENGL 54 Children's and Young Adult Literature 3.0
ENGL 57 Survey of Women's Literature 3.0
ENGL 58 Contemporary Women's Writing 3.0
ENGL 61 Literature and Film 3.0

Total: . . . . . 19.0 – 20.0

Creative Writing Major (AA)

CCSF's Creative Writing major offers a wide variety of creative writing, humanities, and arts classes to serve students with diverse goals, including transfer to UC, CSU, or other four-year colleges. Creative writing majors will be able to complete most or all of their lower division preparation at CCSF before they transfer with the Associate of Arts Degree in Creative Writing but should see a counselor to confirm transfer requirements.

By taking units of introductory creative writing courses, students will learn techniques to produce original poems, fictional stories, and nonfiction pieces. The required units of Introductory and Intermediate Creative Writing courses provide students with writing and editing skills and knowledge of a wide range of literature; additionally, students will have the ability to choose from a wide variety of other arts and humanities classes. If students anticipate careers in law, education,

communication, writing, editing, publishing, advertising, or business, the creative writing major should serve them well.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and analyze craft elements of creative writing.
- Analyze and appraise published and unpublished literary work for its literary merit.
- Analyze and appraise the relationship between culture and literary expression.
- Compose original creative works in various genres.
- Apply skills used in the publication process.
- Design and present literary expression in the community.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Creative Writing

Course	Units
Required	
ENGL 35A Introduction to Writing Fiction	3.0
Choose one course from the following	
ENGL 35C Introduction to Writing Poetry	3.0
ENGL 35G Introduction to Creative Nonfiction Writing	3.0
Choose one course from the following	
ENGL 35L Introduction to Literary Magazine	3.0
IDST 36 Poetry for the People	3.0
Choose one course from the following	
ENGL 35B Intermediate Fiction Writing	3.0
ENGL 35D Intermediate Poetry Writing	3.0
ENGL 35H Intermediate Creative Nonfiction Writing	3.0
ENGL 35M Intermediate Literary Magazine	3.0
IDST 36 Poetry for the People	3.0
Choose one course from the following	
BCST 110 Introduction to Writing for Electronic Media	3.0
CINE 72 Nonfiction Scriptwriting	3.0
CINE 75A Introduction to Screenwriting	3.0
JOUR 22 Feature Writing	3.0
JOUR 29A Introduction to Magazine Editing and Production	3.0
PHOT 51 Beginning Photography	3.0
PHOT 100 Design Fundamentals	3.0
TH A 171A Beginning Storytelling and Performance	3.0
VMD 166 Storytelling and Storyboarding	3.0
Choose one course from the following	
ENGL 30A American Literature, Beginnings to Civil War	3.0
ENGL 30B American Literature, 1865-present	3.0
ENGL 43 Introduction to Poetry	3.0
ENGL 44A Survey of World Literature, Part 1: Ancient, Medieval, and Early Modern	3.0
ENGL 44B Survey of World Literature, Part II: Early Modern to the Present	3.0
ENGL 46A Survey of Literature in English, Part 1: Beowulf through Milton	3.0
ENGL 46B Survey of Literature in English, Part 2: Late-17th through the Mid-19th Century	3.0
ENGL 46C Survey of Literature in English, Part 3: Mid-19th Century to Present	3.0
ENGL 48C Science Fiction and Fantasy	3.0
ENGL 54 Children's and Young Adult Literature	3.0
ENGL 57 Survey of Women's Literature	3.0
ENGL 58 Contemporary Women's Writing	3.0
ENGL 61 Literature and Film	3.0
ENGL 62 Video Games and Literature	3.0
HUM 7 Comparative Religions	3.0
HUM 8 Philosophies of Religion	3.0
HUM 11 Music, Art, and Literature: Traditional	3.0
HUM 12 Music/Art/Literature: Modern	3.0
HUM 20 Bay Area Arts	3.0
HUM 25 Women in the Arts	3.0
HUM 41A Western Cultural Values: Pre-history to the Middle Ages	3.0
HUM 41B Western Cultural Values	3.0
HUM 48 African-American Music, Art and Literature	3.0
IDST 4 Ways of Faith	3.0
IDST 14 American Cultures in Literature and Film	3.0
IDST 46 Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania	3.0
IDST 47 Trauma and the Arts: An Interdisciplinary Approach	3.0
WGST 20 Her/His/Ourstories	3.0
Total:	**18.0**

Creative Writing Certificate

The Creative Writing Certificate is interdisciplinary, allowing students to major or minor in creative writing and develop skills that support careers in publishing, editing, web-editing, and non-profit organizations in the arts/arts education. All courses in the Creative Writing Certificate are transferable to the California State University system; most are transferable to the University of California. Some courses satisfy requirements for CSU General Education Humanities Area C2, IGETC Area 3B, and CCSF General Education graduation requirements for Areas E and H.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify craft elements of creative writing.
- Analyze and appraise published or unpublished literary work for its literary merit.
- Analyze and appraise the relationship between culture and literary expression.
- Compose original creative works in various genres.
- Apply skills used in the publication process.
- Design and present literary expression in the community.

The Creative Writing Certificate is open to any student enrolled at CCSF who meets the prerequisite requirements for the required courses. Students must complete all courses at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Creative Writing

Course . . . . . Units

Choose 2 of the following Intro to Creative Writing courses

ENGL 35A Introduction to Writing Fiction 3.0
ENGL 35C Introduction to Writing Poetry 3.0
ENGL 35G Introduction to Creative Nonfiction Writing 3.0

Choose 1 of the following Intro to Creative Writing in the Community courses

ENGL 35L Introduction to Literary Magazine 3.0
IDST 36 Poetry for the People 3.0

Choose 1 of the following Continuing Studies in Creative Writing courses

ENGL 35B Intermediate Fiction Writing 3.0
ENGL 35D Intermediate Poetry Writing 3.0
ENGL 35H Intermediate Creative Nonfiction Writing . . 3.0
ENGL 35M Intermediate Literary Magazine 3.0
IDST 36 Poetry for the People * 3.0

* Courses used in one section cannot be used to fulfill a requirement for another section.

Choose 1 of the following Craft Exploration courses

BCST 110 Introduction to Writing for Electronic Media . 3.0
CINE 72 Nonfiction Scriptwriting 3.0
CINE 75A Introduction to Screenwriting 3.0
DSGN 101 Design Fundamentals 3.0
JOUR 22 Feature Writing 3.0
JOUR 29A Introduction to Magazine Editing and Production 3.0
PHOT 51 Beginning Photography 3.0
PHOT 100 Design Fundamentals 3.0
TH A 171A Beginning Storytelling and Performance 3.0
WGST 20 Her/His/Ourstories 3.0
VMD 101 Design Fundamentals 3.0
VMD 166 Storytelling and Storyboarding 3.0

Any 3-unit Creative Writing course elective (in the ENGL 35 family or IDST 36) not already used for a different certificate requirement.

Choose 1 of the following Studies in Literature courses

ENGL 30A American Literature, Beginnings to Civil War 3.0
ENGL 30B American Literature, 1865-present 3.0
ENGL 43 Introduction to Poetry 3.0
ENGL 44A Survey of World Literature, Part 1: Ancient, Medieval, and Early Modern 3.0
ENGL 44B Survey of World Literature, Part II: Early Modern to the Present 3.0
ENGL 46A Survey of Literature in English, Part 1: Beowulf through Milton 3.0
ENGL 46B Survey of Literature in English, Part 2: Late-17th through the Mid-19th Century 3.0
ENGL 46C Survey of Literature in English, Part 3: Mid-19th Century to Present 3.0
ENGL 48C Science Fiction and Fantasy 3.0
ENGL 48K The Bible as Literature 3.0
ENGL 51 The Graphic Novel as Literature 3.0
ENGL 52 Shakespeare 3.0
ENGL 54 Children's and Young Adult Literature 3.0
ENGL 57 Survey of Women's Literature 3.0
ENGL 58 Contemporary Women's Writing 3.0
ENGL 61 Literature and Film 3.0
HUM 11 Music, Art, and Literature: Traditional 3.0
HUM 12 Music/Art/Literature: Modern 3.0
HUM 20 Bay Area Arts 3.0
HUM 25 Women in the Arts 3.0
HUM 41A Western Cultural Values: Pre-history to the Middle Ages 3.0
HUM 41B Western Cultural Values 3.0
HUM 48 African-American Music, Art and Literature . . 3.0
IDST 14 American Cultures in Literature and Film 3.0
IDST 46 Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania 3.0
LGBT 15 From Greece to Stonewall: Global LGBTQ+ Literature, Art and Culture 3.0

Total: 18.0

Humanities: Ideas, Religions, and the Arts Certificate

The Humanities Certificate of Achievement promotes an interdisciplinary understanding of broad trends in the arts and aesthetics, religion, and intellectual history. A sound understanding of the cultural and spiritual foundations of the modern world is in high demand in careers that require interpersonal and intercultural skills. This applies to education, the arts, and graphic design as well as the legal, political, public relations, tech, and consulting fields.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify the ways that people of various cultural and historical contexts create the arts or develop religions.
- Employ an aesthetic appreciation to enable an informed response to the arts.
- Analyze aesthetic or religious texts and practices through writing and discussion.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Humanities: Ideas, Religions, and the Arts

Course . . . . . Units

Group A (choose 6 units)

HUM 7 Comparative Religions 3.0
or HUM 8 Philosophies of Religion 3.0
and HUM 11 Music, Art, and Literature: Traditional . . . 3.0
or HUM 12 Music/Art/Literature: Modern 3.0

Group B (choose 12 units, including any unused courses from Group A)

HUM 20 Bay Area Arts 3.0
HUM 25 Women in the Arts 3.0
HUM 41A Western Cultural Values: Pre-history to the Middle Ages 3.0
HUM 41B Western Cultural Values 3.0
HUM 48 African-American Music, Art and Literature 3.0
ENGL 48K The Bible as Literature 3.0
ENGL 61 Literature and Film 3.0
IDST 3 Introduction to Museum Studies 3.0
IDST 4 Ways of Faith 3.0
IDST 14 American Cultures in Literature and Film 3.0
IDST 27B Asian Humanities: Contemporary 3.0
IDST 29 Islam: Identity & Culture 3.0

IDST 47 Trauma and the Arts: An Interdisciplinary Approach 3.0
LGBT 15 From Greece to Stonewall: Global LGBTQ+ Literature, Art and Culture 3.0
Total: 18.0

Announcement of Courses

CCSF English assessment and placement is required prior to enrollment in English courses. For more information, please see "Steps to Become a CCSF Students in Credit Courses" in the "Admission to the College" section of this Catalog.

Students for whom English is a second language should take the ESL Placement Test. Non-native English speakers with proficient English skills can be placed into the general English sequence.

The chair of the English Department or designee rules on all matters of equivalency of ENGL 1A and 1B courses completed at out-of-state colleges, universities, or private institutions.

For information about the prerequisite challenge process, see the Assessment Center webpage (***https://www.ccsf.edu/assessment***) or meet with the English Eligibility Coordinator in Batmale 514 to schedule a written essay challenge exam. Access English eligibility information from the English Department website ***http://www.ccsf.edu/english***.

Credit, Non-Degree Applicable Courses:

ENGL 12. English Bridge (1.5)
Lec-26.25 P/NP only
A short term English Composition course offered to incoming and continuing students as preparation for full-term English courses.

Credit, Degree Applicable Courses:

ENGL 1A. College Reading and Composition (4)
Lec-70, field trips
Recommended Prep: Readiness for college-level English or ESL 188
College reading, writing, and critical thinking with a major research component. Reading, writing, and research assignments are based predominantly on non-fiction texts. UC/CSU
C-ID ENGL 100
Students placed into ENGL 1A + 1AS must select a section of ENGL 1A that is linked to a section of ENGL 1AS.
Offered Fall and Spring semesters

ENGL 1AS. English 1A Support (2)
Lec-35, field trips P/NP available
Prereq: Placement into ENGL 1AS
Coreq: ENGL 1A
This supplemental course, taken in conjunction with English 1A (depending on placement), provides additional support for students in English 1A in academic essay writing and analytical reading. Emphasis is on writing process and the skills involved in reading multiple academic texts and developing and revising text-based, thesis-driven essays at the collegiate level. CSU
This course must be taken in conjunction with English 1A
Offered Fall and Spring semesters

ENGL 1B. Writing about Literature (4)
Lec-70, field trips
Prereq: ENGL 1A
College reading, writing, and critical thinking applied to literature, including poetry, drama, and fiction. Essay writing employing methods of literary analysis, academic research, and critical thinking. UC/CSU
C-ID ENGL 120; C-ID ENGL 110
Offered Fall and Spring semesters

ENGL 1C. Writing about Nonfiction (4)
Lec-70, field trips
Prereq: ENGL 1A
A course in composition and rhetoric that helps students hone a style appropriate for upper-division work that integrates the close reading of nonfiction and the writing of expository and argumentative essays. Focus on sharpening critical thinking skills, analyzing and evaluating texts, and writing text-based prose. UC/CSU
C-ID ENGL 105
Offered Fall and Spring semesters

ENGL 9. Introduction to College Reading (2)
Lec-35 P/NP available
This course presents a basic grounding and practice in the academic reading process, reading comprehension, and vocabulary development. CSU
Not recommended for students who have completed English 19.
Offered on occasion

ENGL 10. Introduction to English Tutoring (2)
Lec-36 P/NP only
Prereq: ENGL 1A
This course is designed to train students who wish to tutor in the English Lab or other English tutorial programs or classrooms on campus. The course content will cover tutoring theory and effective strategies for peer tutoring in English. CSU
Offered on occasion

ENGL 19. College Reading (2)
Lec-35 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course is designed for students who wish to improve their reading skills in all academic areas, including comprehension, textual analysis, and vocabulary at the transfer level. CSU
Not recommended for students concurrently enrolled in ENGL 9. May be taken after ENGL 9, while concurrently enrolled in another English course, or independently.

ENGL 22A. English Seminar: Exploration of the Academic Essay (.5)
Lec-8.75 P/NP only
This seminar provides students models of the elements of an academic essay and how to create their own academic essays, including considerations of language, style, audience, and structure. CSU
Formerly "English Support Seminar: Introduction to the Academic Essay"
Offered on occasion

ENGL 22B. English Seminar: Thesis and Topic Sentences (.5)
Lec-8.75 P/NP only
This seminar teaches students how to create effective thesis statements and topic sentences, including considerations of language, style, and structure. CSU
Formerly "English Support Seminar: Thesis and Topic Sentence Development"
Offered on occasion

ENGL 22C. English Seminar: Revising and Editing (.5)
Lec-8.75 P/NP only
This seminar explores effective revision and editing processes, providing students with ways to "re-think" their writing and incorporate concrete strategies for improvement. CSU
Formerly "English Support Seminar: Revising and Editing"
Offered on occasion

ENGL 26. English Grammar and Sentence Combining (3)
Lec-52.5 P/NP available
This course teaches the rules of English grammar and sentence-combining techniques to help students understand and fix com mon grammatical errors and write more sophisticated sentences. CSU
Recommended for students who wish to improve their knowledge and understanding of basic English grammar and those who want to tutor English/ESL.
Offered on occasion

ENGL 26A. English Grammar: Sentence Core (1)
Lec-17.5 P/NP available
This course teaches the fundamentals of parts of speech and strategies for identifying errors in pronoun and verb use to help students understand and fix common grammatical errors. CSU
Recommended for students who wish to improve their knowledge and understanding of basic grammar. ENGL 26 covers the content of ENGL 26A + ENGL 26B + ENGL 26C
Offered on occasion

ENGL 26B. English Grammar: Sentence Structure (1)
Lec-17.5 P/NP available
This course teaches the fundamentals of sentence structure and strategies to help students understand and fix common grammatical errors. CSU
Recommended for students who wish to improve their knowledge and understanding of basic grammar. ENGL 26 covers the content of ENGL 26A + ENGL 26B + ENGL 26C
Offered on occasion

ENGL 26C. English Grammar: Sentence Combining (1)
Lec-17.5 P/NP available
This course teaches the rules of English grammar and sentence-combining techniques to help students understand and fix com mon grammatical errors and write more sophisticated sentences. CSU
Recommended for students who wish to improve their knowledge and understanding of basic and more advanced English grammar and/or tutor English/ESL. ENGL 26 covers the content of ENGL 26A + ENGL 26B + ENGL 26C
Offered on occasion

ENGL 30A. American Literature, Beginnings to Civil War (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
ENGL 30A surveys American literature from its Native and European beginnings to the Civil War. It is designed to introduce students to a variety of texts comprising, shaping, and critiquing the idea of America and a national literature. UC/CSU
C-ID ENGL 130
Offered on occasion

ENGL 30B. American Literature, 1865-present (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of American literature from the Civil War to the present featuring significant fiction, poetry, and drama of the time, previously marginalized groups and authors, and the literary voices of the changing American nation. UC/CSU
C-ID ENGL 135
Offered on occasion

ENGL 35A. Introduction to Writing Fiction (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
In this introduction to the fundamentals of short story writing, students develop story writing skills by studying elements of fiction in published works, engaging in writing exercises, and learning to participate in a workshop. UC/CSU
C-ID ENGL 200 (ENGL 35A + ENGL 35C)
Offered Fall and Spring semesters

ENGL 35B. Intermediate Fiction Writing (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ENGL 35A
In this intermediate fiction workshop, students expand their skills writing, reading, and critiquing short stories, as well as share their writing with peers in a workshop setting. UC/CSU
Offered Fall and Spring semesters

ENGL 35C. Introduction to Writing Poetry (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Beginning poetry writing course: reading, listening to, and analyzing poetry in order to apply basic poetic techniques to their work. Poetry writing, both in and out of class, and workshopping with peers in a supportive environment. UC/CSU
C-ID ENGL 200 (ENGL 35A + ENGL 35C)
Offered Fall and Spring semesters

ENGL 35D. Intermediate Poetry Writing (3)
Lec-52.5 P/NP available
Recommended Prep: ENGL 35C and (ESL 188 or readiness for college-level English)
In this intermediate poetry workshop, students expand their skills in writing, reading, and critiquing poetry, as well as share their writing with peers in a workshop setting. UC/CSU
Offered Fall and Spring semesters

ENGL 35G. Introduction to Creative Nonfiction Writing (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This beginning creative nonfiction writing course introduces students to the fundamentals of memoir writing, literary nonfiction, and personal essay, while cultivating creative and critical thinking skills through the examination of diverse authors, and preparing students for intermediate creative nonfiction writing, especially those students considering a major or minor in creative writing. UC/CSU
Offered Fall and Spring semesters

ENGL 35H. Intermediate Creative Nonfiction Writing (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ENGL 35G
In this intermediate creative nonfiction writing course, students expand their ability to write literary memoir, personal essays, and nonfiction shorts. Students will also further develop their ability to read and critique both diverse professional writing and writing of their peers. UC/CSU
Offered Fall and Spring semesters

ENGL 35L. Introduction to Literary Magazine (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This class teaches students the basics of producing a literary magazine. Students gain experience in writing, copy editing, and production while developing the aesthetic judgment and the skills for taking on greater editorial and production responsibilities in the future. CSU
Offered Spring semesters

ENGL 35M. Intermediate Literary Magazine (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ENGL 35L
The class teaches students intermediate to advanced editorial and project management skills involved in publishing a literary magazine, including managing submissions and reading groups and coordinating with other departments on design and layout. CSU
Offered Spring semesters

ENGL 43. Introduction to Poetry (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Across time and cultures, poetry is one of the most powerful ways to communicate thought and emotion and celebrate the beauty of language. This class helps students understand, appreciate, and analyze a wide range of poems, from canonical works to contemporary popular forms. UC/CSU
Offered on occasion

ENGL 44A. Survey of World Literature, Part 1: Ancient, Medieval, and Early Modern (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of significant world literature in English translation, from antiquity through the late Renaissance. UC/CSU
C-ID ENGL 140
Offered on occasion

ENGL 44B. Survey of World Literature, Part II: Early Modern to the Present (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of significant world literature in English translation, from the early modem period to the present. UC/CSU
C-ID ENGL 145
ENGL 44A is not prerequisite to 44B
Offered on occasion

ENGL 46A. Survey of Literature in English, Part 1: Beowulf through Milton (3)
Lec-52.5 P/NP available
Prereq: ENGL 1A
A survey of significant literature written in English, from the Anglo-Saxon era through the late Renaissance UC/CSU
C-ID ENGL 160
ENGL 46A, ENGL 46B, and ENGL 46C may be taken in any order. Required for a university major in English.
Offered on occasion

ENGL 46B. Survey of Literature in English, Part 2: Late-17th through the Mid-19th Century (3)
Lec-52.5 P/NP available
Prereq: ENGL 1A
A survey of important literature written in English, from the Restoration through Neo-Classicism and Romanticism to the Early Victorian period. UC/CSU
C-ID ENGL 165 (ENGL 46B + ENGL 46C)
ENGL 46A, ENGL 46B, and ENGL 46C may be taken in any order. Required for a university major in English.
Offered on occasion

ENGL 46C. Survey of Literature in English, Part 3: Mid-19th Century to Present (3)
Lec-52.5 P/NP available
Prereq: ENGL 1A
A survey of important British, American, and global Anglophone literature written in English, from the end of the 19th century through the present. UC/CSU
C-ID ENGL 165 (ENGL 46B + ENGL 46C)
ENGL 46A, ENGL 46B, and ENGL 46C may be taken in any order. Required for a university major in English. Formerly Survey of Literature in English, Part 3: Mid-Nineteenth through the Twentieth Century.
Offered on occasion

ENGL 48C. Science Fiction and Fantasy (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The roots, twentieth-century rise, and contemporary status of the science fiction and fantasy literary genres are studied. Focus is on recurrent themes and tropes, as well as the mythological, philosophical, and socio-cultural foundations from which they arise. UC/CSU
Offered on occasion

ENGL 48K. The Bible as Literature (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the Bible in English--one of Western culture's most influential books and an important source for literature--through a study of its literary aspects, interpretative methods, and historical context. UC/CSU
Offered on occasion

ENGL 51. The Graphic Novel as Literature (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course focuses on the graphic novel as a literary and artistic

medium exploring a variety of topics in a sophisticated and compelling manner unique to this genre. UC/CSU
Offered on occasion

ENGL 52. Shakespeare (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of Shakespeare's plays and poetry that emphasizes his growth as a literary artist and the social and artistic forces which shaped his work in the Elizabethan/Jacobean periods. Students learn strategies for textual analysis and interpretation, engage in in-depth discussion, write critical essays, and develop analytical and creative projects. UC/CSU
Offered on occasion

ENGL 54. Children's and Young Adult Literature (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Children's and young adult literature from fairy tales to vampires, from monsters to magicians, including history, features, and cultural influences. Literary criticism and analysis applied to texts from diverse authors, cultures, and time periods, plus the social construction of the experience of youth and the meaning of "childhood." UC/CSU
Offered on occasion

ENGL 55. Queer Literature (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of contemporary queer literature, including lesbian, gay, bisexual, and transgender authors, characters, and experiences. Focus is on examples from the 20th and 21st centuries that present material relevant to present-day experiences. UC/CSU
Offered on occasion

ENGL 57. Survey of Women's Literature (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of literature written in English by women over the last four hundred years, emphasizing nineteenth and early twentieth century novels, poetry, and drama by major as well as rediscovered authors prior to 1970. UC/CSU
Offered on occasion

ENGL 58. Contemporary Women's Writing (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An exploration of contemporary women's writing: fiction, poetry, drama, creative nonfiction, and hybrid forms written in English by contemporary women from diverse social, cultural and ethnic backgrounds. UC/CSU
Formerly ENGL 58A
Offered on occasion

ENGL 61. Literature and Film (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Critical analysis of literary texts in relation to film. Develop critical thinking and literary analysis skills, and acquire knowledge of literary and film techniques, by examining the relationship between filmed and written versions of a single text, theme, social issue, historical period, or ethnic/cultural experience. UC/CSU
Offered on occasion

ENGL 62. Video Games and Literature (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Examine the relationship between video games and selected literary texts based on shared themes, social issues, historical periods, and ethnic/cultural experience. Compare literary genres, tropes, context, and styles, and explore the way video games engage, complicate, and repurpose these literary elements. UC/CSU
Offered on occasion

Noncredit Course:

ENGL 1000. Supervised Tutoring - English (50 hrs)
A course designed to help faculty-referred students strengthen and refine college English skills and achieve course learning outcomes. Under faculty supervision, students utilize technology, receive tutoring, attend workshops, and engage in writing, reading, study skills, or research.
Recommended for students concurrently enrolled in English and/or Humanities.
Offered on occasion

Classics

Credit, Degree Applicable Course:

CLAS 35. Tragic Drama of Greece (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An intensive consideration of the tragic dramas of Greece in English translation from a literary standpoint. UC/CSU
Offered on occasion

English as a Second Language

Office: Batmale 616
Phone Number: (415) 239-3003
Web Site: *www.ccsf.edu/esl*

Announcement of Curricula

Credit Programs

Advanced Academic English as a Second Language Certificate

The Advanced Academic ESL Certificate of Accomplishment prepares non-native English speakers to participate in academic and professional settings. Students gain skills in analyzing and synthesizing complex texts, and composing complex texts and speaking with fluency and accuracy. It provides students, prospective employers, and others with documented evidence of persistence and academic accomplishment in ESL.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and synthesize complex authentic texts from various genres to participate in academic and professional discourse.

- Compose logically developed, well-supported, complex texts with advanced-level accuracy.
- Communicate orally with advanced-level accuracy and fluency in academic and professional communication.

The minimum time for completion of this certificate is one semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Advanced Academic English as a Second Language

Course	Units
Required	
ESL 79 Advanced Speaking and Pronunciation	3.0
ESL 188 ESL College Reading and Writing	6.0
Choose a minimum of 3 units from the following	
ESL 66 Advanced Listening and Reading	3.0
ESL 67 Practical Writing for ESL Students	3.0
ESL 69 ESL Communication High Intermediate	3.0
ESL 85 Advanced Editing and Grammar Review	3.0
ESL 85A Advanced Editing and Grammar Review A	1.0
ESL 85B Advanced Editing and Grammar Review B	1.0
ESL 85C Advanced Editing and Grammar Review C	1.0
ESL 95 High Advanced Editing and Grammar Review	3.0
ESL 95A High Advanced Editing and Grammar Review A	1.0
ESL 95B High Advanced Editing and Grammar Review B	1.0
ESL 95C High Advanced Editing and Grammar Review C	1.0
Total:	**12.0**

Advanced English as a Second Language Oral Communication Skills Certificate

The Certificate of Accomplishment in Advanced English as a Second Language (ESL) Oral Communication Skills prepares non-native English speakers to participate in academic and professional settings. Students gain skills in analyzing and synthesizing complex texts to participate in oral discourse and speaking with fluency and accuracy. It provides students, employers, and others with documented evidence of persistence and academic accomplishment in listening and speaking in academic and professional environments.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and synthesize complex oral and written texts to participate in academic and/or professional oral discourse.
- Speak with fluency and accuracy in academic or professional oral discourse.
- Recognize and correct English language errors that impede successful communication.
- Deliver well-researched, logical, credible presentations, using critical thinking skills

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Advanced English as a Second Language Oral Communication Skills

Course	Units
Required courses:	
ESL 69 ESL Communication High Intermediate	3.0
ESL 79 Advanced Speaking and Pronunciation	3.0
Choose one of the following courses:	
ESL 49 ESL Communication Intermediate	3.0
ESL 66 Advanced Listening and Reading	3.0
Total:	**9.0**

ESL and Business Milestone Certificate

The ESL and Business Milestone Certificate in Business prepares English language learners for the academic rigor of coursework in business. It provides students, employers, and others documented evidence of academic accomplishment and persistence in English communication skills and success in introductory coursework in business.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret and produce spoken English with effectiveness, confidence, accuracy, and fluency in a business context.
- Interpret and respond to a variety of authentic texts in a business context, employing accurate English and respectful, culturally appropriate written communication.
- Use critical thinking to deliver logical, credible, well-supported arguments orally and in writing.
- Interact effectively in diverse business settings.

Students must complete at least 12 units from the courses listed below at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in ESL and Business Milestone

Course	Units
Required	
ESL 69 ESL Communication High Intermediate	3.0
ESL 79 Advanced Speaking and Pronunciation	3.0
ESL 188 ESL College Reading and Writing	6.0
Choose two courses from the following	
BSEN 74 Written Business Communication	3.0
GNBS 100 Essential Skills for Business Professionals	1.0
MGT 234 Communication for Business Management	3.0
Total:	**16.0 – 18.0**

ESL and Child Development Milestone Certificate

The ESL and Child Development Milestone Certificate is designed as an on-ramp to prepare English language learners for the academic rigor of degree-applicable coursework in child development. It provides students, employers, and others with documented evidence of persistence and academic accomplishment in English and success in introductory coursework in child development. These two elements combine to demonstrate significant achievement of a milestone along students' pathways to child development certificates and degrees.

Learning Outcomes

Upon completion of this program, students will be able to:

- Produce comprehensible spoken English with accuracy in pronunciation, grammar, and vocabulary.
- Produce comprehensible written English, employing a variety of vocabulary, grammar, and sentence structures.
- Analyze and interpret authentic written texts in English, using a range of strategies.
- Analyze child development and how various factors affect children and families.
- Evaluate early childhood practices that promote positive development in young children.
- Critique strategies to support and empower children and their families, including those with diverse characteristics.

The minimum time for completion is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in ESL and Child Development Milestone

Course	Units
Choose one course from the following	
ESL 69 ESL Communication High Intermediate	3.0
ESL 79 Advanced Speaking and Pronunciation	3.0
Choose a minimum of 9 units from the following	
ESL 66 Advanced Listening and Reading	3.0
ESL 67 Practical Writing for ESL Students	3.0
ESL 186 ESL Introduction to College Reading and Writing	6.0
ESL 188 ESL College Reading and Writing	6.0
Choose 6 units from the following	
CDEV 53 Child Growth and Development	3.0
CDEV 65 Orientation to ECE Principles and Practice	3.0
CDEV 66 Introduction to Early Childhood Curriculum	3.0
CDEV 67 Child, Family, and Community	3.0
Total:	**18.0**

ESL and Math Milestone Certificate

The ESL and Math Milestone Certificate of Achievement prepares English language learners for the academic rigor of Mathematics coursework. It provides students and institutions with documented evidence of persistence and academic achievement in the English language and the communication and quantitative reasoning skills necessary for transfer to a four-year institution.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and interpret college-level oral and written texts in English, using a range of strategies and critical thinking skills at an advanced level
- Produce accurate written English, employing a variety of language structures and forms
- Produce intelligible and accurate spoken English
- Apply quantitative reasoning skills to identify and analyze formulas, numerical, and/or statistical data

Students must complete at least 12 units at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in ESL and Math Milestone

Course	Units
Required	
ESL 188 ESL College Reading and Writing	6.0
ESL 79 Advanced Speaking and Pronunciation	3.0
MATH 80 Probability and Statistics	5.0
or MATH 90 Precalculus Algebra	5.0
or MATH 108 Foundations of Data Science	5.0
or ECON 5 Introductory Statistics for Economics, Business and Social Sciences	5.0
or PSYC 5 Statistics for Behavioral Sciences	5.0
or LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
Choose three units from the following	
ESL 66 Advanced Listening and Reading	3.0
ESL 67 Practical Writing for ESL Students	3.0
ESL 69 ESL Communication High Intermediate	3.0
ESL 85 Advanced Editing and Grammar Review	3.0
ESL 85A Advanced Editing and Grammar Review A	1.0
ESL 85B Advanced Editing and Grammar Review B	1.0
ESL 85C Advanced Editing and Grammar Review C	1.0
ESL 95 High Advanced Editing and Grammar Review	3.0
ESL 95A High Advanced Editing and Grammar Review A	1.0
ESL 95B High Advanced Editing and Grammar Review B	1.0
ESL 95C High Advanced Editing and Grammar Review C	1.0
Total:	**17.0**

Announcement of Courses

Credit Courses

Initial recommended placement in the credit ESL program is based on results of 1) the ESL Guided Self-Placement tool and/or 2) consultation between the student and the Credit ESL Faculty Advisor. For continuing students, successful completion of courses with letter grades requires a grade of "C" or higher or a grade of "P" from ESLA 3180 for entry into ESL 182. Credit ESL courses are not intended for native speakers of English.

Credit, Non-Degree Applicable Courses:

ESL 75. Intermediate Editing and Grammar Review (3)

Lec-52.5 P/NP available

Recommended Prep: ESLA 3180 or placement in ESL 182

Support for non-native speakers of English; intermediate grammar for texts which are lightly adapted for ESL and composition; editing/proofreading skills to improve quality and accuracy of written pre-college work at the intermediate level.

Intended for non-native speakers of English taking ESL 182 or ESL 184 who require additional instruction in intermediate grammar and writing skills.

Offered every semester

ESL 75A. Intermediate Editing and Grammar Review A (1)
Lec-17.5 P/NP available
Recommended Prep: ESLA 3180 or placement in ESL 182
The first short support course in a series of three for non-native speakers of English. Intermediate grammar with a focus on sentence parts and basic sentence structures. Editing/proofreading skills to improve quality and accuracy of pre-college written work at an intermediate level.
ESL 75 = ESL 75A + 75B + 75C. Intended for non-native speakers of English taking ESL 182, ESL 184, or other courses, who require additional instruction in intermediate grammar and writing skills.
Elective offered at the department's discretion

ESL 75B. Intermediate Editing and Grammar Review B (1)
Lec-17.5 P/NP available
Recommended Prep: ESLA 3180 or placement in ESL 182
The second short support course in a series of three for non-native speakers of English. Intermediate grammar with a focus on complexity in basic sentence structures. Editing/proofreading skills to improve quality and accuracy of pre-college written work at an intermediate level.
ESL 75 = ESL 75A + 75B + 75C. Intended for non-native speakers of English taking ESL 182, ESL 184, or other courses, who require additional instruction in intermediate grammar and writing skills.
Elective offered at the department's discretion

ESL 75C. Intermediate Editing and Grammar Review C (1)
Lec-17.5 P/NP available
Recommended Prep: ESLA 3180 or placement in ESL 182
The third short support course in a series of three for non-native speakers of English. Intermediate grammar with a focus on connecting ideas in complex sentence structures. Editing/proofreading skills to improve quality and accuracy of pre-college written work at an intermediate level.
ESL 75 = ESL 75A + 75B + 75C. Intended for non-native speakers of English taking ESL 182, ESL 184, or other courses, who require additional instruction in intermediate grammar and writing skills.
Elective offered at the department's discretion

ESL 182. Intermediate Academic ESL (6)
Lec-105
Prereq: ESLA 3175 or ESLA 3180 or placement in ESL 182
Training and practice in intermediate reading and writing, with emphasis on language structure and vocabulary development for non-native speakers of English. Practice in reading passages from informational and literary texts to support written work. Practice in a variety of writing tasks. Intermediate language skills integrated on the basis of academic tasks and content.
ESL 182 and ESL 49 are companion composition and speaking/listening courses.
Offered every semester

Credit, Degree Applicable Courses:

ESL 49. ESL Communication - Intermediate (3)
Lec-52.5 P/NP available
Recommended Prep: ESLA 3180 or placement in ESL 182
Systematic practice in American English sounds and speech for improved pronunciation, speaking, and listening through the application of intermediate academic listening and speaking skills. CSU
ESL 49 and ESL 182 are companion speaking/listening and composition courses
Offered every semester

ESL 66. Advanced Listening and Reading (3)
Lec-52.5 P/NP available
Prereq: ESL 182 or placement in ESL 184
Intensive work on pre-college academic skills and strategies in the areas of listening in mainstream classroom lectures, reading of a variety of text types in different academic content areas, and note taking. CSU
Intended for students who need or want additional practice in academic listening and reading.
Elective offered at the department's discretion

ESL 67. Practical Writing for ESL Students (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188
Practice in interpreting documents, professional and academic applications and other written instructions, and composing a variety of writings, including those required to apply for admissions, scholarships, internships and employment opportunities, to take advantage of opportunities and funding, and to problem solve and engage effectively in civic life. CSU
Elective offered at the department's discretion

ESL 69. ESL Communication - High Intermediate (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 182 or placement in ESL 184
High-intermediate academic listening and speaking skills and strategies with an emphasis on accent reduction by improving overall clarity, voice quality, and physical presentation. Oral communication activities, oral presentations, and listening competency with vocabulary and grammatical structures appropriate to the high-intermediate level. CSU
ESL 69 and ESL 184 are companion speaking/listening and composition courses
Offered every semester

ESL 79. Advanced Speaking and Pronunciation (3)
Lec-52.5 P/NP available
Prereq: ESL 184 or placement in ESL 186
Recommended Prep: ESL 69
Practice in effective communication in academic situations through the use of individual and group presentations, oral reports and summaries, debates, and discussions, in conjunction with pronunciation practice. CSU
Not intended for students who have completed more than one level beyond ESL 188
Offered every semester

ESL 85. Advanced Editing and Grammar Review (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 75 or ESL 75A or ESL 75B or ESL 75C or ESL 184 or (placement in ESL 186)
Support for non-native speakers of English; advanced grammar for high level texts and composition; editing/proofreading skills to improve quality and accuracy of written pre-college work at the advanced level. Meets requirements for the Certificate of Accomplishment in Advanced Academic English as a Second Language. CSU
This course may benefit students concurrently enrolled in any CCSF course that requires writing.
Offered every semester

ESL 85A. Advanced Editing and Grammar Review A (1)
Lec-17.5 P/NP available
Recommended Prep: ESL 75 or ESL 75A or ESL 75B or ESL 75C or ESL 184 or (placement in ESL 186)
The first short support course in a series of three for non-native speakers

of English. Advanced English grammar with a focus on complexity and accuracy in verb structures. Editing/proofreading skills to improve quality and accuracy of pre-college written work at an advanced level. CSU

This course may benefit students concurrently enrolled in any CCSF course that requires writing. ESL 85A, ESL 85B, and ESL 85C may be taken in any order.

Elective offered at the department's discretion

ESL 85B. Advanced Editing and Grammar Review B (1)

Lec-17.5 P/NP available

Recommended Prep: ESL 75 or ESL 75A or ESL 75B or ESL 75C or ESL 184 or (placement in ESL 186)

The second short support course in a series three for non-native speakers of English. Advanced grammar with a focus on sentence complexity and connecting ideas. Editing/proofreading skills to improve quality and accuracy of pre-college written work at an advanced level. CSU

This course may benefit students concurrently enrolled in any CCSF course that requires writing. ESL 85A, ESL 85B, and ESL 85C may be taken in any order.

Elective offered at the department's discretion

ESL 85C. Advanced Editing and Grammar Review C (1)

Lec-17.5 P/NP available

Recommended Prep: ESL 75 or ESL 75A or ESL 75B or ESL 75C or ESL 184 or (placement in ESL 186)

The third short support courses for non-native speakers of English. Advanced grammar with a focus on sentence variety and complexity. Editing/proofreading skills to improve quality and accuracy of pre-college written work at an advanced level. CSU

This course may benefit students concurrently enrolled in any CCSF course that requires writing. ESL 85A, ESL 85B, and ESL 85C may be taken in any order.

Elective offered at the department's discretion

ESL 95. High Advanced Editing and Grammar Review (3)

Lec-52.5 P/NP available

Recommended Prep: ESL 85 or ESL 85A or ESL 85B or ESL 85C or ESL 186 or (placement in ESL 188)

Support for non-native speakers of English. High-advanced grammar for college and other authentic texts and composition. Editing/proofreading skills to improve quality and accuracy of written college work at the advanced level. CSU

This course may benefit students concurrently enrolled in any CCSF course that requires college-level writing.

Offered every semester

ESL 95A. High Advanced Editing and Grammar Review A (1)

Lec-17.5 P/NP available

Recommended Prep: ESL 85 or ESL 85A or ESL 85B or ESL 85C or ESL 186 or (placement in ESL 188)

The first of three short support courses for non-native speakers of English with a focus on the foundational elements of high advanced grammar, including noun and adjective phrases and clauses, working with the complex and often irregular grammar of authentic texts and composition. Editing and proofreading skills to improve quality and accuracy in written college level work. CSU

This course may benefit students concurrently enrolled in any CCSF course that requires college-level writing. ESL 95A, ESL 95B, and ESL 95C may be taken in any order.

Elective offered at the department's discretion

ESL 95B. High Advanced Editing and Grammar Review B (1)

Lec-17.5 P/NP available

Recommended Prep: ESL 85 or ESL 85A or ESL 85B or ESL 85C or ESL 186 or (placement in ESL 188)

The second of three short support courses for non-native speakers of English with a focus on the complex and often irregular English verb system found in authentic college level texts and composition. Editing and proofreading skills to improve quality and accuracy in written college level work. CSU

This course may benefit students concurrently enrolled in any CCSF course that requires college-level writing. ESL 95A, ESL 95B, and ESL 95C may be taken in any order.

Elective offered at the department's discretion

ESL 95C. High Advanced Editing and Grammar Review C (1)

Lec-17.5 P/NP available

Recommended Prep: ESL 85 or ESL 85A or ESL 85B or ESL 85C or ESL 186 or (placement in ESL 188)

The third of three short support courses for non-native speakers of English addressing grammar via the meaning and cultural conventions of the complex and often irregular English found in authentic college level texts and composition. Editing and proofreading skills to improve quality and accuracy in written college level work. CSU

This course may benefit students concurrently enrolled in any CCSF course that requires college-level writing. ESL 95A, ESL 95B, and ESL 95C may be taken in any order.

Elective offered at the department's discretion

ESL 184. High Intermediate Academic ESL (6)

Lec-105

Prereq: ESL 182 or placement in ESL 184

Training and practice in high-intermediate reading and writing with emphasis on language structure and vocabulary development for non-native speakers of English. Practice in reading passages from a variety of academic genres used to support written work. Practice in a variety of writing tasks at the high intermediate level. High-intermediate language skills integrated on the basis of academic tasks and content. UC/CSU

ESL 184 and ESL 69 are companion composition and speaking/listening courses.

Offered every semester

ESL 186. ESL Introduction to College Reading and Writing (6)

Lec-105

Prereq: ESL 184 or placement in ESL 186

Training and practice in low-advanced academic reading and writing, with emphasis on language structure and vocabulary development for non-native speakers of English. Practice in reading academic texts, synthesizing ideas, and developing and revising text-based assignments at the low-advanced level. Low-advanced language skills integrated on the basis of academic tasks and content. UC/CSU

ESL 186 and ESL 79 are companion composition and speaking/pronunciation courses.

Offered every semester

ESL 188. ESL College Reading and Writing (6)

Lec-105

Prereq: ESL 186 or placement in ESL 188

Pre-collegiate training and practice in critical reading and analytical writing, with emphasis on language structure and vocabulary development for non-native speakers of English. Research, synthesis, and documentation skills. High-advanced language skills integrated on the

basis of academic tasks and content. UC/CSU
ESL 188 and ESL 79 are companion composition and speaking/pronunciation courses; this course is designed for ESL students and is not appropriate for native English speakers
Offered every semester

Announcement of Curricula

Noncredit Programs

General Programs

ESL Literacy
ESL Beginning Low
ESL Beginning Low Focus Skills
ESL Beginning Low Oral Communication Skills
ESL Beginning High
ESL Beginning High Focus Skills
ESL Beginning High Oral Communication Skills
ESL Computer Assisted
ESL Intermediate Low
ESL Intermediate Low Focus Skills
ESL Intermediate Low Oral Communication Skills
ESL Intermediate High
ESL Intermediate High Focus Skills
ESL Intermediate High Oral Communication Skills
ESL Advanced Low
ESL Pre-Academic

Vocational ESL Programs

ESL Beginning Workplace Skills
ESL Intermediate Workplace Skills
ESL Vocational Training
High Intermediate ESL for Health Professionals

General Programs

ESL Literacy Certificate of Competency

English as a Second Language students with little or no English language skills develop basic language skills to prepare them for community participation, further study, or entry-level employment.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify a limited range of simple spoken words from learned material.
- Relate personal information and basic survival needs in limited social conversation.
- Identify letters, numbers, and basic words.
- Write words, phrases, and high-frequency expressions from learned material.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Literacy

Course . . . . . Hours
Choose one course from the following
ESLN 3010 ESL Literacy: Comprehensive 175.0
ESLN 3015 ESL Literacy 85.0
ESLN 4015 ESL Literacy: Abridged 45.0
Choose one course from the following
ESLN 3100 Beginning Low 1 . . . . . 175.0
ESLN 3105 Beginning Low 1 Abridged 85.0
Total: . . . . . 130.0 – 350.0

ESL Beginning Low Certificate of Competency

In this certificate, English as a Second Language students develop low beginning English skills in speaking, listening, reading, and writing to prepare for limited community participation, further study, and entry-level work.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret commonly used beginning low statements and questions in familiar contexts.
- Employ simple learned phrases and sentences to engage in basic social conversations.
- Construct general meaning from simplified reading materials on familiar topics.
- Write simple words and sentences.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Students must receive a P (Pass) for each course in the certificate.

Courses Required for the Certificate of Competency in ESL Beginning Low

Course . . . . . Hours
Choose one of the following Beginning Low 1 courses
ESLN 3100 Beginning Low 1 . . . . . 175.0
ESLN 3105 Beginning Low 1 Abridged 85.0
Choose one of the Beginning Low 2 courses
ESLN 3120 ESL Beginning 1-2 Multilevel 175.0
ESLN 3200 Beginning Low 2 . . . . . 175.0
ESLN 3205 Beginning Low 2 Abridged 85.0
Total: . . . . . 170.0 – 350.0

ESL Beginning Low Focus Skills Certificate of Competency

The ESL Beginning Low Focus Skills Certificate provides the opportunity for students to develop low-beginning English skills with an emphasis on a chosen skill area such as reading, speaking and listening, or computer skills for learning English. It prepares students for limited community participation, further study, and entry-level work. It provides students, prospective employers, and others with documented evidence of persistence and accomplishment in English skills.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret general meaning and essential information in low-beginning English conversations in familiar contexts.
- Use low-beginning English structures and vocabulary to engage in simple conversations on familiar topics.
- Construct limited meaning from low-beginning written English texts on familiar topics.
- Use low-beginning English structures and vocabulary to write a series of simple sentences on familiar topics.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Beginning Low Focus Skills

Course	Hours
Choose one course from the following	
ESLN 3100 Beginning Low 1	175.0
ESLN 3105 Beginning Low 1 Abridged	85.0
ESLN 3120 ESL Beginning 1-2 Multilevel	175.0
ESLN 3200 Beginning Low 2	175.0
ESLN 3205 Beginning Low 2 Abridged	85.0
Choose one course from the following	
ESLF 3128 Reading Beginning Low	85.0
ESLF 5125 Speaking and Listening: Beginning Low	85.0
ESLF 3020 Computer Assisted ESL Multilevel	85.0
Total:	**170.0 – 260.0**

ESL Beginning Low Oral Communication Skills Certificate of Competency

The ESL Beginning Low Oral Communication Skills Certificate provides the opportunity for students to develop low-beginning speaking skills. It prepares students to communicate in basic conversations using simple learned phrases and sentences for limited community participation, further study, and entry-level work. It provides students, prospective employers, and others with documented evidence of persistence and accomplishment in English oral communication.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and respond to key information in simple conversations in English on familiar topics.
- Use low-beginning English language structures and vocabulary to engage in basic conversational exchanges on familiar topics.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Beginning Low Oral Communication Skills

Course	Hours
Required	
ESLF 4127 Beginning Low Conversation	45.0
ESLF 5125 Speaking and Listening: Beginning Low	85.0
Total:	**130.0**

ESL Beginning High Certificate of Competency

The ESL Beginning High Certificate of Competency provides non-native English-speaking students beginning reading, writing, listening, and speaking skills to prepare for intermediate ESL course and certificates. It also provides employers and others with documented evidence of persistence and achievement in beginning high English skills.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify main points and key details in a range of simplified oral and written English texts.
- Use high beginning English grammar and vocabulary to communicate orally and in writing in familiar contexts.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Beginning High

Course	Hours
Choose one of the following Beginning High Level 3 courses	
ESLN 3300 Beginning High 3	175.0
ESLN 3305 Beginning High 3 Abridged	85.0
Choose one of the following Beginning High 4 or multi-level courses	
ESLN 3340 ESL Beginning High 3-4 Multilevel	175.0
ESLN 3400 Beginning High 4	175.0
ESLN 3405 Beginning High 4 Abridged	85.0
Total:	**170.0 – 350.0**

ESL Beginning High Focus Skills Certificate of Competency

The ESL Beginning High Focus Skills Certificate provides the opportunity for students to develop high-beginning English skills with an emphasis on a chosen skill area such as reading, writing, speaking and listening, or computer skills for learning English. It prepares students for expanded community participation, further study, and entry-level work. It provides students, prospective employers, and others with documented evidence of persistence and accomplishment in English skills.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret general meaning and essential information in high-beginning English conversations in familiar contexts.
- Use high-beginning English structures and vocabulary to engage in conversations on familiar topics.
- Construct meaning from high-beginning written English texts on familiar topics.
- Use high-beginning English structures and vocabulary to write short, loosely organized paragraphs on familiar topics.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Beginning High Focus Skills

Course	Hours
Choose one course from the following	
ESLN 3300 Beginning High 3	175.0
ESLN 3305 Beginning High 3 Abridged	85.0
ESLN 3340 ESL Beginning High 3-4 Multilevel	175.0
ESLN 3400 Beginning High 4	175.0
ESLN 3405 Beginning High 4 Abridged	85.0
Choose one course from the following	
ESLF 3348 Reading Beginning High	85.0
ESLF 3349 Writing High Beginning	85.0
ESLF 5345 Speaking and Listening Beginning High	85.0
ESLF 3020 Computer Assisted ESL Multilevel	85.0
Total:	**170.0 – 260.0**

ESL Beginning High Oral Communication Skills Certificate of Competency

The ESL Beginning High Oral Communication Skills Certificate provides the opportunity for students to develop high-beginning speaking skills to engage in social interactions on familiar topics in order to expand their ability to participate in the community, continue their education, and pursue employment opportunities. It provides students, prospective employers, and others with documented evidence of persistence and accomplishment in English oral communication.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and respond to high-beginning oral interactions in English on a variety of familiar topics.
- Use high-beginning grammar and vocabulary to communicate in conversational exchanges in comprehensible English on familiar topics.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Beginning High Oral Communication Skills

Course	Hours
Required	
ESLF 5345 Speaking and Listening Beginning High	85.0
Choose one course from the following	
ESLF 3144 Pronunciation Beginning	85.0
ESLF 4347 Beginning High Conversation	45.0
Total:	**130.0 – 170.0**

ESL Computer Assisted Certificate of Competency

Using digital technology and online ESL resources, students enhance intermediate level ESL listening, speaking, reading, and writing skills through computer-assisted projects. This certificate allows ESL students to expand language and digital skills to prepare them for increasing community participation, further study, and employment.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use learned language structures and digital processes to communicate in oral interactions in an automated environment.
- Apply reading skills and digital technologies to determine meaning of written text.
- Use digital technologies and learned language structures to create simple written texts.
- Use digital technologies to develop language skills and conduct basic research.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Students must receive a P (Pass) in each course in the certificate.

Courses Required for the Certificate of Competency in ESL Computer Assisted

Course	Hours
Choose one of the following courses:	
ESLB 3821 ESL for Computers-Intermediate	85.0
ESLB 4821 Intermediate Introduction to Computers for ESL	45.0
ESLV 3829 Computer VESL Intermediate	85.0
Choose one of the following courses:	
ESLF 3020 Computer Assisted ESL Multilevel	85.0
ESLF 4002 Computer Assisted ESL Beginning Low	85.0
ESLF 4006 Intermediate CALL	85.0
ESLF 5006 Computer-Assisted ESL Projects	45.0
Total:	**90.0 – 260.0**

ESL Intermediate Low Certificate of Competency

This certificate in English as a Second Language allows students to develop and expand low intermediate English skills in speaking, listening, reading, and writing and prepares them for increasing community participation, further study, and employment.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify key points and supporting ideas in spoken English in familiar and some unfamiliar contexts.
- Employ low intermediate language structures and word choice to communicate in extended formal and informal conversations.
- Interpret adapted and short authentic informational and literary texts on a variety of topics.
- Write one or two organized paragraphs containing related ideas and appropriate details.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Students must receive a P (Pass) for each course in the certificate.

Courses Required for the Certificate of Competency in ESL Intermediate Low

Course	Hours
Required course:	
ESLN 3500 Intermediate Low 5	175.0
Choose one of the following courses:	
ESLN 3560 ESL Intermediate 5-6 Multilevel	175.0
ESLN 3600 Intermediate Low 6	175.0
Total:	**350.0**

ESL Intermediate Low Focus Skills Certificate of Competency

The ESL Intermediate Low Focus Skills Certificate provides the opportunity for students to develop low-intermediate English skills with an emphasis on a chosen skill area such as reading, writing, speaking and listening, or computer skills for learning English. It prepares students for increasing community participation, further study, and employment. It provides students, prospective employers, and others with documented evidence of persistence and accomplishment in English skills.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret general and supporting ideas in low-intermediate oral English texts in familiar and unfamiliar contexts

- Use low-intermediate English structures and forms to engage in extended conversational exchanges with increasing accuracy and fluency
- Construct meaning from low-intermediate written English texts on familiar and unfamiliar topics.
- Use low-intermediate English structures and vocabulary to write one or more organized paragraphs

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Intermediate Low Focus Skills

Course	Hours
Choose one course from the following	
ESLN 3500 Intermediate Low 5	175.0
ESLN 3505 Intermediate Low 5 Abridged	85.0
ESLN 3560 ESL Intermediate 5-6 Multilevel	175.0
ESLN 3600 Intermediate Low 6	175.0
ESLN 3605 Intermediate Low 6 Abridged	85.0
Choose one course from the following	
ESLF 3568 Reading Intermediate Low	85.0
ESLF 3569 Writing Low Intermediate	85.0
ESLF 5565 Speaking and Listening Intermediate Low	85.0
ESLF 3020 Computer Assisted ESL Multilevel	85.0
Total:	**170.0 – 260.0**

ESL Intermediate Low Oral Communication Skills Certificate of Competency

The ESL Intermediate Low Oral Communication Skills Certificate of Competency provides intermediate ESL students speaking and listening skills to participate in extended interactions and to expand their ability to participate in the community, continue their education, and pursue employment opportunities. It provides students, prospective employers, and others with documented evidence of persistence and accomplishment in English oral communication.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and respond to information in low-intermediate oral interactions in English on a variety of topics.
- Apply low-intermediate English structures and vocabulary to communicate in extended oral discourse.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Intermediate Low Oral Communication Skills

Course	Hours
Required	
ESLF 5565 Speaking and Listening Intermediate Low	85.0
Choose one course from the following	
ESLF 4567 Intermediate Low Conversation	45.0
ESLV 3819 Social Communication	85.0
Total:	**130.0 – 170.0**

ESL Intermediate High Certificate of Competency

This Certificate of Competency in English as a Second Language allows students to develop and expand high intermediate English skills for community involvement, the workforce, and/or future academic studies.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify essential points and details of spoken English on familiar and unfamiliar topics.
- Apply high intermediate language structures and forms in extended oral discourse.
- Identify essential points of written English on familiar and unfamiliar topics.
- Apply high intermediate language structures and forms in extended written discourse.

Advisory. ESLN 3600 or placement in ESLN 3700 (Intermediate High 7)

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester. Students must receive a P (Pass) for each course in the certificate.

Courses Required for the Certificate of Competency in ESL Intermediate High

Course	Hours
Required	
ESLN 3700 Intermediate High 7	175.0
Choose one course from the following	
ESLN 3580 Intermediate 5-8 Multilevel	175.0
ESLN 3780 ESL Intermediate High 7-8 Multilevel	175.0
ESLN 3800 lntermediate High 8	175.0
ESLA 3180 Introduction to Academic ESL	175.0
Total:	**350.0**

ESL Intermediate High Focus Skills Certificate of Competency

The ESL Intermediate High Focus Skills Certificate provides the opportunity for students to develop high-intermediate English skills with an emphasis on a chosen skill area such as reading, speaking and listening, pronunciation, or computer skills for learning English. It prepares students for increasing community participation, further study, and employment. It provides students, prospective employers, and others with documented evidence of persistence and accomplishment in English skills.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret general and supporting ideas in a range of high-intermediate authentic oral English texts
- Use high-intermediate English structures and forms to communicate in extended spoken discourse with a high degree of accuracy and fluency.
- Construct meaning from high-intermediate extended written English texts
- Use high-intermediate English structures and forms to write developed, organized multi-paragraph texts

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Intermediate High Focus Skills

Course	Hours
Choose one course from the following	
ESLN 3580 Intermediate 5-8 Multilevel	175.0
ESLN 3700 Intermediate High 7	175.0
ESLN 3705 Intermediate High 7 Abridged	85.0
ESLN 3780 ESL Intermediate High 7-8 Multilevel	175.0
ESLN 3800 lntermediate High 8	175.0
ESLN 3805 Intermediate High 8 Abridged	85.0
Choose one course from the following	
ESLF 3584 Pronunciation Intermediate	85.0
ESLF 3788 Reading Intermediate High	85.0
ESLF 5785 Speaking and Listening Intermediate High	85.0
ESLV 3020 Computer Assisted ESL Multilevel	85.0
Total:	**170.0 – 260.0**

ESL Intermediate High Oral Communication Skills Certificate of Competency

The ESL Intermediate High Oral Communication Skills Certificate provides ESL students high-intermediate speaking and listening skills to participate in extended interactions and to expand their ability to participate in the community, continue their education, and pursue employment opportunities. It provides students, prospective employers, and others with documented evidence of persistence and accomplishment in English oral communication.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and respond to information in a range of extended oral interactions in English on a variety of familiar and unfamiliar topics.
- Apply a range of high-intermediate English language structures and vocabulary to communicate in extended oral discourse on a variety of topics.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Intermediate High Oral Communication Skills

Course	Hours
Required course	
ESLF 5785 Speaking and Listening Intermediate High	85.0
Choose one of the following courses	
ESLF 3584 Pronunciation Intermediate	85.0
ESLF 4787 Intermediate High Conversation	45.0
ESLV 3819 Social Communication	85.0
Total:	**130.0 – 170.0**

ESL Advanced Low Certificate of Competency

These courses in English as a Second Language allow students to develop and expand low advanced English skills in order to participate in the community, further their studies, and seek employment.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply a variety of strategies to participate in a range of oral discourse with increasing fluency and control of complex language structures and forms.
- Interpret authentic narrative and informational spoken and written texts, including abstract topics in familiar contexts.
- Write multi-paragraph texts using appropriate structures and forms.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Students must receive a P (Pass) for each course in the certificate.

Courses Required for the Certificate of Competency in ESL Advanced Low

Course	Hours
Required	
ESLN 3900 Advanced Low 9	175.0
Choose one of the following courses	
ESLN 3580 Intermediate 5-8 Multilevel	175.0
ESLN 3780 ESL Intermediate High 7-8 Multilevel	175.0
ESLN 3800 lntermediate High 8	175.0
ESLA 3180 Introduction to Academic ESL	175.0
Total:	**350.0**

ESL Pre-Academic Certificate of Competency

The ESL Pre-Academic Certificate of Competency is a program for students who intend to pursue further academic studies. It is a bridge to the ESL credit academic sequence and covers pre-academic speaking, listening, reading, and writing in integrated skills, intensive, and pre-academic courses.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use analytic strategies to interpret meaning of pre-academic spoken and written texts.
- Use learned language structures, vocabulary, and strategies to produce written and spoken texts on pre-academic topics.
- Apply college resources to support beginning academic work.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Pre-Academic

Course	Hours
Required	
ESLA 3180 Introduction to Academic ESL	175.0
or ESLA 3165 Introduction to Academic ESL: Listening/Speaking/Reading	85.0
and ESLA 3175 Introduction to Academic ESL: Reading/Writing/Grammar	85.0
Choose one course from the following	
ESLN 3500 Intermediate Low 5	175.0
ESLN 3560 ESL Intermediate 5-6 Multilevel	175.0
ESLN 3580 Intermediate 5-8 Multilevel	175.0
ESLN 3600 Intermediate Low 6	175.0
Total:	**345.0 – 350.0**

Vocational ESL Programs

ESL Beginning Workplace Skills Certificate of Competency

The ESL Beginning Workplace Skills Certificate of Competency provides beginning-level English skills to prepare non-native English speakers for work in the U.S. Courses emphasize basic workplace English communication. After completing a general ESL workplace course, students can choose a focus on computer, custodial, construction, or cooking training. This certificate provides students, prospective employers, and others with documented evidence of persistence and accomplishment in vocational ESL.

Learning Outcomes

Upon completion of this program, students will be able to:

- Communicate in the workplace, using high beginning English and basic cultural strategies
- Apply health and safety practices in the workplace
- Identify basic workers' rights in the U.S.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Beginning Workplace Skills

Course	Hours
Required course	
ESLV 4842 ESL for Work Beginning	85.0
Choose one of the following courses:	
ESLB 3822 ESL Keyboarding Beginning	85.0
ESLV 3814 ESL for Cooking	85.0
ESLV 3832 ESL for Construction Workers	85.0
ESLV 4816 ESL for Custodians	85.0
Recommended course	
ESLV 4822 ESL Workplace Communication Strategies	22.5 – 45.0
Total:	**170.0**

ESL Intermediate Workplace Skills Certificate of Competency

The ESL Intermediate Workplace Skills Certificate of Competency provides intermediate English language skills to prepare non-native English speakers for the workplace. Courses emphasize intermediate English communication, computer, and collaboration skills. This certificate provides students, prospective employers, and others with documented evidence of persistence and accomplishment in vocational ESL.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply appropriate intermediate-level English and communication strategies in the U.S. workplace
- Create professional workplace correspondence and documents, using intermediate-level English and technology tools
- Collaborate on professional workplace projects and presentations, using intermediate-level English and technology tools

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Intermediate Workplace Skills

Course	Hours
Choose one of the following courses	
ESLB 3821 ESL for Computers-Intermediate	85.0
ESLB 4821 Intermediate Introduction to Computers for ESL	45.0
ESLB 4822 ESL Keyboarding Intermediate	85.0
Choose one of the following courses	
ESLV 3801 Intermediate ESL Workplace Communication	85.0
ESLV 3823 ESL for Job Search A	85.0
Choose one of the following courses	
ESLV 3829 Computer VESL Intermediate	85.0
ESLB 3845 ESL Computer Projects with Collaborative Apps	85.0
Choose one of the following courses	
ESLV 3819 Social Communication	85.0
ESLV 3923 ESL for Job Search B	85.0
Total:	**300.0 – 340.0**

ESL Vocational Training Certificate of Competency

The Vocational ESL Training Certificate of Competency prepares non-native English speakers to pursue their chosen professional careers and additional vocational programs. Students gain valuable skills that help them effectively search and interview for jobs, communicate in the workplace, create professional correspondence and documents, collaborate on projects and presentations, and use digital tools. Students also gain confidence speaking English in front of others beyond the classroom. This certificate provides students, prospective employers, and others with documented evidence of persistence and accomplishment in vocational ESL.

Learning Outcomes

Upon completion of this program, students will be able to:

- Create professional workplace correspondence and documents, using intermediate-level English and a variety of technology tools
- Collaborate on professional workplace projects and presentations, using intermediate-level English and a variety of technology tools
- Apply appropriate intermediate-level English and cultural strategies in the U.S. workplace
- Employ intermediate-level English and communication skills to identify potential employers, market one's skills and experience, and interview appropriately for a specific job
- Create a professional resume and cover letter for a specific job, using appropriate intermediate-level English

Admission Requirements. Completion of ESLN 3500 or demonstration of low intermediate English skills and typing (25 wpm).

Requirements for Completion. In addition to the course requirements, students must also fulfill the following requirement: typing 45 wpm; 10% error rate.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Competency in ESL Vocational Training

Course	Hours
Required courses:	
ESLB 3821 ESL for Computers-Intermediate	85.0
ESLB 3845 ESL Computer Projects with Collaborative Apps	85.0
ESLB 4822 ESL Keyboarding Intermediate	85.0
ESLV 3801 Intermediate ESL Workplace Communication	85.0
ESLV 3819 Social Communication	85.0
ESLV 3823 ESL for Job Search A	85.0
ESLV 3829 Computer VESL Intermediate	85.0
ESLV 3923 ESL for Job Search B	85.0
Total:	**680.0**

High Intermediate ESL for Health Professionals Certificate of Competency

This certificate of competency prepares high intermediate non-native English speaking students with communication skills and cultural competencies to help them succeed in CCSF or other health care programs and future employment in the health care field.

Learning Outcomes

Upon completion of this program, students will be able to:

- Explore career goals and apply job search and professional development strategies in health care careers.
- Apply high intermediate English skills effectively to communicate in health care environments.
- Recognize and analyze current issues in the field of health care.
- Interpret cultural beliefs and values in health care and apply English skills effectively to communicate in a multicultural work environment.

Advisory. ESLN 3600 or placement in ESLN 3700 (Intermediate High 7)

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester. Students must receive a Pass (P) for each course in the certificate.

Courses Required for the Certificate of Competency in High Intermediate ESL for Health Professionals

Course	Hours
Required courses:	
ESLV 3842 Healthcare Communication I	85.0
ESLV 3843 Healthcare Communication II	85.0
ESLV 3844 Healthcare Communication III	85.0
Total:	**255.0**

Announcement of Courses

Noncredit Courses:

These courses are designed for students whose first or native language is not English. Students gain proficiency in English to find employment, to continue their education, and to function successfully in the culture and society of the United States. Survival skills are stressed in the first three levels of the program. Vocational paths provide a bridge to vocational training. High school credit recovery students can receive 5 elective credits for passing (P grade) non-credit ESL classes that are at least 70 total hours.

ESL, Academic

ESLA 1000. Supplemental Academic English Instruction (22.5 hrs)
Coreq: Enrollment in at least one other CCSF course
Recommended Prep: Non-native speaker of English
This course takes place in the Center for Language and Academic Development (CLAD), trains and supports students in identifying and choosing appropriate skill building activities, and offers direct instruction on the oral production, aural comprehension, pronunciation, reading, and writing of academic English.
Noncredit course offered at the department's discretion

ESLA 3165. Introduction to Academic ESL: Listening/Speaking/Reading (85 hrs)
Recommended Prep: ESLN 3600 or placement in ESLN 3700
Preparation for credit ESL courses. Beginning academic listening, speaking, and reading, with an emphasis on listening and reading comprehension, oral fluency, and vocabulary development for non-native speakers of English. Practice in listening to and reading informational and literary texts, and discussion and presentation skills. Language skills integrated on the basis of academic tasks and content. ESLA 3165 and ESLA 3175 can be taken in any order.
ESLA 3165 and ESLA 3175 can be taken in any order.
Noncredit course offered at the department's discretion

ESLA 3175. Introduction to Academic ESL: Reading/Writing/Grammar (85 hrs)
Recommended Prep: ESLN 3600 or placement in ESLN 3700
Preparation for credit ESL courses. Beginning academic reading, writing, and grammar with an emphasis on language structure and vocabulary development for non-native speakers of English. Practice in reading informational and literary texts, and writing paragraphs. Language skills integrated on the basis of academic tasks and content.
ESLA 3165 and ESLA 3175 can be taken in any order.
Noncredit course offered at the department's discretion

ESLA 3180. Introduction to Academic ESL (175 hrs)
Recommended Prep: ESLN 3600 or placement in ESLN 3700
Preparation for credit ESL courses. Training and practice in beginning academic reading, writing, listening, and speaking, with emphasis on language structure and vocabulary development for non-native speakers of English. Practice in reading informational and literary texts, and writing paragraphs and summaries. Language skills integrated on the basis of academic tasks and content.
Offered Fall and Spring semesters

ESL, Bridge

ESLB 3821. ESL for Computers-Intermediate (85 hrs)
Recommended Prep: ESLN 3400 or placement in ESL 3500 (Intermediate Low 5)
Introduction to computers for intermediate-level ESL students. Overview of English terminology used in computer and digital applications: word processing software, the internet, email, spreadsheets, and digital platforms. ESL reading, writing, speaking, and listening skills are developed through a variety of projects and interactive work.
Formerly Introduction to Computers for ESL-Intermediate
Offered Fall and Spring semesters

ESLB 3822. ESL Keyboarding - Beginning (85 hrs)
Recommended Prep: ESLN 3200 or placement in ESLN 3300
Beginning-level ESL language skills, including vocabulary and grammar.

Development of keyboarding skills for speed and accuracy for English communication.
Formerly Keyboarding for ESL Students
Noncredit course offered at the department's discretion

ESLB 3845. ESL Computer Projects with Collaborative Apps (85 hrs)
Recommended Prep: ESLN 3500 or placement in ESLN 3600
Intermediate English language skills development through collaborative computer projects using online productivity apps or similar cloud-based software with materials and lessons especially adapted for ESL students. Development of communication skills for collaborating with documents, spreadsheets, presentations, and forms.
Offered Fall semesters

ESLB 4821. Intermediate Introduction to Computers for ESL (45 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
An introduction to computers for intermediate-level ESL students. Overview of English terminology used in common computer software and applications. Word processing software and digital platforms to explore the Internet, email, spreadsheets, and presentations. ESL reading, writing, speaking, and listening skills are developed through projects and interactive work.
Noncredit course offered at the department's discretion

ESLB 4822. ESL Keyboarding - Intermediate (85 hrs)
Recommended Prep: ESLN 3500 or placement in ESLN 3600
Intermediate-level ESL communication skills, including vocabulary, grammar, correspondence, and charts and graphs. Development of keyboarding skills for speed and accuracy for English communication.
Formerly ESL Keyboarding
Noncredit course offered at the department's discretion

ESL, Citizenship

ESLC 2032. ESL Citizenship: Comprehensive (175 hrs)
Recommended Prep: ESLN 3100 or placement in ESLN 3200
In-depth preparation for the United States Citizenship and Immigration Services (USCIS) naturalization test. ESL listening, speaking, reading, writing, and interview skills to enhance readiness for the test.
Offered Fall and Spring semesters

ESLC 3032. ESL Citizenship (85 hrs)
Recommended Prep: ESLN 3100 or placement in ESLN 3200; Literate in native language
Preparation for the United States Citizenship and Immigration Services (USCIS) naturalization test. ESL reading, writing, listening, and speaking skills to enhance readiness for the test.
Noncredit course offered at the department's discretion

ESLC 4032. ESL Citizenship: Abridged (45 hrs)
Recommended Prep: ESLN 3100 or placement in ESLN 3200
Introduction to the United States Citizenship and Immigration Service (USCIS) naturalization test, including ESL reading, writing, listening, and speaking related to test content.
Offered Fall and Spring semesters

ESL, Focus

ESLF 3020. Computer Assisted ESL - Multilevel (85 hrs)
Recommended Prep: ESLN 3100 or placement in ESLN 3200
Development of speaking, listening, reading, writing, and basic computer skills through the use of language learning software and online ESL resources. Designed to meet the needs of ESL students at various levels.
Noncredit course offered at the department's discretion

ESLF 3128. Reading - Beginning Low (85 hrs)
Recommended Prep: Native language literacy
Low beginning reading skills development. Comprehension of simple print materials on familiar topics. Beginning vocabulary development.
Noncredit course offered at the department's discretion

ESLF 3144. Pronunciation - Beginning (85 hrs)
Recommended Prep: Native language literacy
Basic pronunciation skills through understanding of English sounds. Stress, intonation, and rhythm are introduced.
Noncredit course offered at the department's discretion

ESLF 3348. Reading - Beginning High (85 hrs)
Recommended Prep: ESLN 3200 or placement in ESLN 3300
High beginning reading skills development. Comprehension of adapted written materials on familiar topics. Beginning vocabulary and word analysis skills.
Noncredit course offered at the department's discretion

ESLF 3349. Writing - High Beginning (85 hrs)
Recommended Prep: ESLN 3200 or placement in ESLN 3300
High beginning writing skill development. Paragraphs on familiar topics and basic personal and practical correspondence. Basic editing skills.
Noncredit course offered at the department's discretion

ESLF 3568. Reading - Intermediate Low (85 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Low intermediate reading skill development. Comprehension and analysis of a variety of adapted and authentic written English materials. Expansion of word analysis skills.
Noncredit course offered at the department's discretion

ESLF 3569. Writing - Low Intermediate (85 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Low intermediate writing skill development. Strategies for writing clear, structured multi-paragraph texts and correspondence addressing a variety of purposes.
Noncredit course offered at the department's discretion

ESLF 3584. Pronunciation - Intermediate (85 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Pronunciation skills for improved oral communication. Review of formation and production of English sounds. Rhythm, stress, and intonation in intermediate level conversations.
Noncredit course offered at the department's discretion

ESLF 3788. Reading - Intermediate High (85 hrs)
Recommended Prep: ESLN 3600 or placement in ESLN 3700
High-intermediate reading skill development. Comprehension and response to authentic written informational and narrative texts. Vocabulary skills development.
Noncredit course offered at the department's discretion

ESLF 4002. Computer Assisted ESL - Beginning Low (85 hrs)
Recommended Prep: Native language literacy
Low beginning level English as a Second Language (ESL) listening, speaking, reading, and writing skills are developed through computer-assisted ESL language learning activities in a computer lab.

Introduction to basic computer vocabulary and technologies for ESL learning.
Formerly ESLF 3007
Noncredit course offered at the department's discretion

ESLF 4006. Intermediate CALL (85 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Intermediate-level ESL listening, speaking, reading, and writing skills are developed in an interactive computer lab or online. Introduction to basic computer terminology and visual and digital media tools and technologies for ESL learning. Short in-class group projects.
Noncredit course offered at the department's discretion

ESLF 4127. Beginning Low Conversation (45 hrs)
Recommended Prep: Native language literacy
Low beginning speaking and listening skills. Participation in short conversations in routine social situations to communicate basic needs.
Offered every semester

ESLF 4347. Beginning High Conversation (45 hrs)
Recommended Prep: ESLN 3200 or placement in ESLN 3300
High beginning speaking and listening skills. Participation in simple conversations about common topics in routine social situations.
Offered every semester

ESLF 4567. Intermediate Low Conversation (45 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Low intermediate speaking and listening skills. Participation in conversations and discussions on familiar and some unfamiliar topics.
Offered every semester

ESLF 4787. Intermediate High Conversation (45 hrs)
Recommended Prep: ESLN 3600 or placement in ESLN 3700 (Intermediate High 7)
High intermediate speaking and listening skills. Participation in discussions and extended conversations on a variety of current topics.
Offered every semester

ESLF 5006. Computer-Assisted ESL Projects (45 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Intermediate level English as a Second Language (ESL) listening, speaking, reading, and writing skills are expanded through group interactive computer projects in an abridged course. Exposure to computer vocabulary and skills.
Noncredit course offered at the department's discretion

ESLF 5125. Speaking and Listening: Beginning Low (85 hrs)
Recommended Prep: Native language literacy
Low beginning speaking and listening focus course. Language for daily life and participation in simple conversations.
Offered Fall and Spring semesters

ESLF 5345. Speaking and Listening - Beginning High (85 hrs)
Recommended Prep: ESLN 3200 or placement in ESLN 3300
High beginning speaking and listening focus course. Comprehension of important points and details in spoken English. Communication in familiar social and workplace contexts.
Offered Fall and Spring semesters

ESLF 5565. Speaking and Listening - Intermediate Low (85 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Low intermediate speaking and listening focus course. Comprehension of adapted and some authentic narrative and informational oral texts. Participation in discussions on career, social, and academic topics.
Offered Fall and Spring semesters

ESLF 5785. Speaking and Listening - Intermediate High (85 hrs)
Recommended Prep: ESLN 3600 or placement in ESLN 3700
High intermediate speaking and listening focus course. Extended communication on a wide range of academic, social, and career-related topics. Comprehension of a wide variety of adapted and authentic literary and informational spoken texts.
Offered Fall and Spring semesters

ESL, Noncredit General

ESLN 3010. ESL Literacy: Comprehensive (175 hrs)
Recommended Prep: Developing literacy in native language
Orientation to the classroom and development of ESL literacy skills. Emphasis on basic oral English and development of pre-reading and pre-writing skills.
Formerly ESL Literacy
Offered Fall and Spring semesters

ESLN 3015. ESL Literacy (85 hrs)
Development of ESL literacy listening and speaking skills, pre-reading and pre-writing skills. Orientation to classroom procedures.
Offered Fall and Spring semesters

ESLN 3100. Beginning Low 1 (175 hrs)
Recommended Prep: Literate in native language
Low beginning 1 language skills. Language for daily life and limited participation in basic conversations. Listening, speaking, and reading readiness. Introduction to writing skills.
Offered Fall and Spring semesters

ESLN 3105. Beginning Low 1 Abridged (85 hrs)
Recommended Prep: Native language literacy
A short course of low beginning 1 language skills. Language for daily life and limited participation in basic conversations. Listening, speaking, and reading readiness. Introduction to writing skills.
Noncredit course offered at the department's discretion

ESLN 3120. ESL Beginning 1-2 Multilevel (175 hrs)
Recommended Prep: Literacy in native language
Beginning English skills. Language for daily life and participation in basic conversations. Listening, speaking, and reading skills development are emphasized. Simple writing is introduced.
Offered Fall and Spring semesters

ESLN 3200. Beginning Low 2 (175 hrs)
Recommended Prep: ESLN 3100 or placement in ESLN 3200
Low beginning 2 language skills. Language for daily life and participation in simple conversations. Listening, speaking, and reading development. Simple writing is introduced.
Offered Fall and Spring semesters

ESLN 3205. Beginning Low 2 Abridged (85 hrs)
Recommended Prep: ESLN 3100 or placement in ESLN 3200
A short course of low beginning 2 language skills. Language for daily life and participation in simple conversations. Listening, speaking, and reading development. Simple writing is introduced.
Noncredit course offered at the department's discretion

ESLN 3300. Beginning High 3 (175 hrs)
Recommended Prep: ESLN 3200 or placement in ESLN 3300
High beginning 3 language skills. Communication in limited familiar social and workplace contexts. Comprehension of simplified reading texts. Sentence writing and introduction to paragraphs.
Offered Fall and Spring semesters

ESLN 3305. Beginning High 3 Abridged (85 hrs)
Recommended Prep: ESLN 3200 or placement in ESLN 3300
A short course of high beginning 3 language skills. Communication in limited familiar social and workplace contexts. Comprehension of simplified reading texts. Sentence writing and introduction to paragraphs.
Noncredit course offered at the department's discretion

ESLN 3340. ESL Beginning High 3-4 Multilevel (175 hrs)
Recommended Prep: ESLN 3200 or placement in ESLN 3300
High beginning English skills for school, work, and everyday needs. Development of listening, speaking, and reading skills. Production of sentences and brief paragraphs.
Offered Fall and Spring semesters

ESLN 3400. Beginning High 4 (175 hrs)
Recommended Prep: ESLN 3300 or placement in ESLN 3400
High beginning 4 language skills. Communication in familiar social and workplace contexts. Comprehension of simplified reading texts that include some unfamiliar language. Basic paragraph writing.
Offered Fall and Spring semesters

ESLN 3405. Beginning High 4 Abridged (85 hrs)
Recommended Prep: ESLN 3300 or placement in ESLN 3400
A short course of high beginning 4 language skills. Communication in familiar social and workplace contexts. Comprehension of simplified reading texts that include some unfamiliar language. Basic paragraph writing.
Noncredit course offered at the department's discretion

ESLN 3500. Intermediate Low 5 (175 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Low intermediate low 5 language skills. Participation in extended conversations and short discussions on familiar career, social, and academic topics. Comprehension of short, adapted informational and narrative texts. Development of short paragraphs for a variety of purposes.
Offered Fall and Spring semesters

ESLN 3505. Intermediate Low 5 Abridged (85 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Low intermediate 5 language skills in an abridged course. Participation in extended conversations and short discussions on familiar career, social, and academic topics. Comprehension of short, adapted informational and narrative texts. Development of short paragraphs for a variety of purposes.
Formerly Intermediate Low 5 - Listening/Speaking
Noncredit course offered at the department's discretion

ESLN 3560. ESL Intermediate 5-6 Multilevel (175 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Intermediate English skills. Participation in discussions on familiar career, social, and academic topics. Comprehension of adapted written and spoken texts. Development of short, clearly-organized paragraphs for a variety of purposes.
Offered Fall and Spring semesters

ESLN 3580. Intermediate 5-8 Multilevel (175 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Intermediate level English skills for students with varying English language proficiencies for education, employment and social settings. Development of intermediate ESL listening and reading skills. Participation in discussions on a range of current topics. Development of short written texts for a variety of purposes. Individual work on language structures and forms according to need.
Offered Fall and Spring semesters

ESLN 3600. Intermediate Low 6 (175 hrs)
Recommended Prep: ESLN 3500 or placement in ESLN 3600
Low intermediate 6 language skills. Participation in discussions on career, social, and academic topics. Comprehension of adapted and some authentic narrative and informational texts. Development of clearly organized paragraphs.
Offered Fall and Spring semesters

ESLN 3605. Intermediate Low 6 Abridged (85 hrs)
Recommended Prep: ESLN 3500 or placement in ESLN 3600
Low intermediate 6 language skills in an abridged course. Participation in discussions on career, social, and academic topics. Comprehension of adapted and some authentic narrative and informational texts. Development of clearly organized paragraphs.
Noncredit course offered at the department's discretion

ESLN 3700. Intermediate High 7 (175 hrs)
Recommended Prep: ESLN 3600 or placement in ESLN 3700
High Intermediate 7 language skills. Extended communication on a range of academic, social, and career-related topics. Comprehension of adapted and authentic literary and informational texts. Development of multiple paragraph texts.
Noncredit course offered at the department's discretion

ESLN 3705. Intermediate High 7 Abridged (85 hrs)
Recommended Prep: ESLN 3600 or placement in ESLN 3700
High Intermediate 7 language skills in an abridged course. Extended communication on a range of academic, social, and career-related topics. Comprehension of adapted and authentic literary and informational texts. Development of multiple paragraph texts.
Noncredit course offered at the department's discretion

ESLN 3780. ESL Intermediate High 7-8 Multilevel (175 hrs)
Recommended Prep: ESLN 3600 or placement in ESLN 3700
Intermediate-high language skills. Participation in discussions on a variety of topics. Comprehension of adapted and authentic written and spoken texts. Development of paragraphs and short written texts for a variety of purposes.
Offered Fall and Spring semesters

ESLN 3800. lntermediate High 8 (175 hrs)
Recommended Prep: ESLN 3700 or placement in ESLN 3800
High intermediate 8 language skills. Extended communication on a wide range of academic, social, and career-related topics. Comprehension of a wide variety of adapted and authentic literary and informational texts. Development of multiple-paragraph texts in a variety of genres.
Offered Fall and Spring semesters

ESLN 3805. Intermediate High 8 Abridged (85 hrs)
Recommended Prep: ESLN 3700 or placement in ESLN 3800
High intermediate 8 language skills in an abridged course. Extended communication on a range of academic, social, and career-related

topics. Comprehension of a variety of adapted and authentic literary and informational texts. Development of multiple-paragraph texts in various genres.
Noncredit course offered at the department's discretion

ESLN 3900. Advanced Low 9 (175 hrs)
Recommended Prep: ESLN 3800 or placement in ESLN 3900
Advanced low language skills. Extended communication on a diverse range of complex topics. Comprehension of a wide variety of authentic informational and literary oral and written texts. Multiple paragraph texts in a variety of genres.
Offered Fall and Spring semesters

ESLN 4015. ESL Literacy: Abridged (45 hrs)
Recommended Prep: Developing literacy in native language
Short ESL literacy course. Development of basic speaking, pre-reading and pre-writing skills. Orientation to the classroom.
Formerly ESL Literacy Abridged
Noncredit course offered at the department's discretion

ESL, Vocational

ESLV 3801. Intermediate ESL Workplace Communication (85 hrs)
Recommended Prep: ESLN 3500 or placement in ESLN 3600
Intermediate English to develop written and oral communication skills, strategies, and cultural knowledge for successful communication in the North American workplace.
Noncredit course offered at the department's discretion

ESLV 3814. ESL for Cooking (85 hrs)
Recommended Prep: ESLN 3300 or placement in ESLN 3400
Development of high beginning ESL written and oral communication skills for employment in the restaurant industry. English terminology for cooking utensils, supplies, common tasks, and safety in restaurants.
Noncredit course offered at the department's discretion

ESLV 3819. Social Communication (85 hrs)
Recommended Prep: ESLN 3400 or placement in ESLN 3500
Development of intermediate ESL conversational strategies for appropriate interactions at work and in a variety of social situations in the United States. Discussions about U.S. workplace culture.
Offered Fall and Spring semesters

ESLV 3823. ESL for Job Search A (85 hrs)
Recommended Prep: ESLN 3500 or placement in ESLN 3600
Development of English reading and writing skills that support a successful job search for non-native English-speaking students. Emphasis is on the language required to use online job search tools, find and analyze job descriptions, and create professional resumes and cover letters that closely fit specific jobs. This is the first of two courses in the ESL job search series.
Formerly ESL for Job Search
Offered Fall and Spring semesters

ESLV 3829. Computer VESL - Intermediate (85 hrs)
Recommended Prep: ESLN 3500 or placement in ESLN 3600
Communicative intermediate English language skills, computer vocabulary, and terminology used in the digital workplace environment. Computer applications for documents, presentations, spreadsheets, and data management with ESL language support. Additional focus on language development necessary for following procedures, problem-solving, and describing charts and graphs.
Formerly Computer VESL– High Intermediate
Noncredit course offered at the department's discretion

ESLV 3830. High Intermediate VESL for Healthcare Careers (175 hrs)
Recommended Prep: ESLN 3600 or placement in ESLN 3700
Development of high intermediate English language skills necessary for healthcare workers. Study and pronunciation of basic medical terms. Social and cultural skills necessary for successful interaction in healthcare surroundings.
Noncredit course offered at the department's discretion

ESLV 3832. ESL for Construction Workers (85 hrs)
Recommended Prep: ESLN 3300 or placement in ESLN 3400
Development of high beginning ESL oral communication skills for emp loyment in the construction industry. English terminology for job duties and responsibilities, tools, equipment, materials, measurement, and safety.
Noncredit course offered at the department's discretion

ESLV 3842. Healthcare Communication I (85 hrs)
Recommended Prep: Health care background; ESLN 3600 or placement in ESLN 3700 (Intermediate High 7)
Designed for health care professionals with high intermediate English language proficiency. Integrated language skills for career options and requirements in health care, patient-centered communication techniques, interaction patterns among health co-workers, assertive communication, and health care systems and traditions. Prepares students for CCSF health care programs.
Noncredit course offered at the department's discretion

ESLV 3843. Healthcare Communication II (85 hrs)
Recommended Prep: Health care background; ESLN 3600 or placement in ESLN 3700 (Intermediate High 7)
Designed for health care professionals with high intermediate English language proficiency. Integrated language skills for job search documents and interviews, interaction patterns on health care teams, discussion of treatment options with patients and alternative health perspectives, and communication strategies among culturally diverse patients and health workers. Prepares students for CCSF health care programs.
Noncredit course offered at the department's discretion

ESLV 3844. Healthcare Communication III (85 hrs)
Recommended Prep: Health care background; ESLN 3600 or placement in ESLN 3700 (Intermediate High 7)
Designed for health care professionals with high intermediate English language proficiency. Develop integrated language skills for professional communication including reporting safety issues, communicating with special-needs patients, resolving conflict with co-workers, understanding legal and ethical issues, and researching racial and cultural health disparities in health care settings. Prepares students for CCSF health care programs.
Noncredit course offered at the department's discretion

ESLV 3923. ESL for Job Search B (85 hrs)
Recommended Prep: ESLN 3500 or placement in ESLN 3600
Development of intermediate English reading, writing, listening, and speaking skills that support a successful job search for non-native English-speaking students. Emphasis is on the English required to describe job qualifications and successfully network and interview for jobs. This is the second of two courses in the ESL job search series.
Offered Fall semesters

ESLV 4816. ESL for Custodians (85 hrs)
Recommended Prep: ESLN 3300 or placement in ESLN 3400
Development of high beginning ESL oral communication skills for employment in the custodial industry. English terminology for job

duties and responsibilities, tools, equipment, measurement, chemicals, and safety. Job search skills are included.
Noncredit course offered at the department's discretion

ESLV 4822. ESL Workplace Communication Strategies (22.5-45 hrs)
Recommended Prep: ESLN 3300 or placement in ESLN 3400 (Beginning High 4)
High beginning English to develop communication strategies for successful interaction in the workplace.
Noncredit course offered at the department's discretion

ESLV 4842. ESL for Work - Beginning (85 hrs)
Recommended Prep: ESLN 3200 or placement in ESLN 3300
Beginning-level English to develop basic workplace skills as a successful employee, including U.S. culture, health and safety, basic rights, and effective communication.
Noncredit course offered at the department's discretion

Environmental Horticulture and Floristry

Office: EH/F
Phone Number: (415) 239-3140
Web Site: *www.ccsf.edu/envhort*

Announcement of Curricula

General Information

The Environmental Horticulture and Floristry Department offers students a choice of preparation for employment in producing, selling, and caring for plants and flowers used to beautify homes, stores, gardens, parks, highways, and industrial property. Training is offered in four fields: commercial cut-flower and greenhouse production, landscape gardening and landscape contracting, nursery and garden-center operation, and retail floristry. The Program in Environmental Horticulture and Floristry comprises the curricula in these fields. Students may complete majors concurrently in any two of these fields, or, with the help of the teaching staff, plan a course of study to meet their particular needs.

Admission. Enrollment is open to all interested students.

Work Experience Training. Students in the Program may obtain field training in the horticulture or floral industries by enrolling in the appropriate work-experience course. To receive credit, students must work at least 60 hours in an approved position. The College helps students in the course find internship opportunities or salaried employment. Placement depends upon students' abilities and records, employers' requirements, and economic conditions. Students are supervised by both employers and instructors. Students may apply toward graduation a maximum of twelve semester units earned in work experience courses.

Associate in Science Degree. The four majors in Environmental Horticulture and Floristry are designed so that students may satisfy the major requirement for graduation from the College with a Associate in Science degree.

Approval of Instruction. The curriculum in Environmental Horticulture is approved by the following organizations: the Association of Landscape Architects; California Arborists Association; California Association of Nurserymen (Central, Peninsula, and Redwood Chapters); California Fertilizer Association; California Seed Trade Association; Golf Course Superintendents Association; California Landscape Contractors Association; Park Employees Union, Local No. 311, AFL-CIO; San Francisco Professional Gardeners Association; Agricultural Chemicals Association; Bedding Plant Association; California Anti-Litter League; California Cut Flower Growers Association; California Horticultural Society; and the State Division of Highways. The curriculum in Floristry is offered in cooperation with the San Francisco Bay Area Florists Association and California State Florists Association.

Environmental Horticulture

Commercial Cut-Flower and Greenhouse Production Major (AS)

Students who satisfactorily complete the curriculum in Commercial Cut-Flower and Greenhouse Production, a two-year course of study, receive the Associate of Science in Commercial Cut-Flower and Greenhouse Production and are qualified for employment in the cut-flower and greenhouse production industries in the following capacities: cut-flower grower, groundskeeper, flower shipper, plant propagator, plant salesperson, and potted-plant grower.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and maintain plants used in commercial cut-flower and greenhouse production.
- Use horticulture machines in greenhouse and nursery operations.
- Propagate and produce plants for crops used in floriculture production.
- Utilize best business practices, salesmanship, and grower strategies in greenhouse production.

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Commercial Cut-Flower and Greenhouse Production

Course	Units
First Semester	
O H 50 Introduction to Environmental Horticulture	3.0
O H 56 Horticultural Machines	3.0
O H 76 Fall and Winter Plant Identification	4.0
Second Semester	
O H 58 Greenhouse Operations	3.0
O H 77 Spring and Summer Plant Identification	4.0
R F 81B Spring and Summer Flower and Foliage Identification/Culture and Care	2.0
Third Semester	
O H 63 Soils	3.0
O H 65 Plant Propagation	3.0
R F 82 Interior Plant Identification	3.0
CMST 6 Workplace Communication*	3.0
or ESL 79 Advanced Speaking and Pronunciation*	3.0
Fourth Semester	
O H 60 Horticulture Business Practices	3.0
O H 75 Pest Management	3.0
O H 97 Work Experience	2.0 – 4.0

* Students may satisfy this requirement by passing an accredited college level foreign language or oral presentation course.

Fourth Semester: choose one of these Landscape courses
O H 70A Principles of Landscape Design 3.0
O H 71A Landscape Construction 4.0

Total: . . . . . 42.0 – 45.0

Landscape Gardening and Contracting Major (AS)

Students who complete this curriculum and other graduation requirements satisfactorily receive the Associate in Science in Landscape Gardening and Contracting. This two-year course of study is planned so that graduates may qualify for employment in a wide variety of capacities in the landscape gardening and contracting profession including landscape maintenance gardener, estate gardener, municipal gardener, landscape installer or contractor, landscape designer, nursery specialist, horticultural or agricultural inspector and others.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply principles of landscape design.
- Use horticultural machines and construction equipment in landscape gardening and contracting.
- Identify plants related to landscape horticulture.
- Articulate the responsibilities of distinct landscape gardener and contractor employment options.

If students begin this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Landscape Gardening and Contracting

Course . . . . . Units
First Semester
O H 50 Introduction to Environmental Horticulture 3.0
O H 56 Horticultural Machines 3.0
O H 76 Fall and Winter Plant Identification 4.0
CMST 6 Workplace Communication* 3.0
or ESL 79 Advanced Speaking and Pronunciation* 3.0

* Students may satisfy this requirement by passing an accredited college level foreign language or oral presentation course.

Second Semester
O H 63 Soils 3.0
O H 75 Pest Management 3.0
O H 77 Spring and Summer Plant Identification 4.0
O H 53A Beginning Landscape Horticulture 3.0

Third Semester
O H 53B Advanced Landscape Horticulture 3.0
O H 70A Principles of Landscape Design 3.0
O H 71A Landscape Construction 4.0

Fourth Semester
O H 60 Horticulture Business Practices 3.0
O H 70B Advanced Principles of Landscape Design 3.0
O H 71B Landscape Construction 4.0
O H 97 Work Experience 3.0

Total: 49.0

Nursery and Garden-Center Operation Major (AS)

Students who complete the curriculum in Nursery and Garden-Center Operation satisfactorily are qualified for employment in the wholesale and retail nursery businesses as growers, propagators, salespeople, and seed brokers. Graduates of this two-year course of study may also take civil-service examinations for positions as pest-control applicators and supervisors, weed-seed analysts, farm and garden supervisors, horticultural inspectors, and plant propagators.

The course of study includes instruction in nursery operation, principles of environmental horticulture, plant identification, the use of horticultural machines, and business practices in the environmental-horticulture industry.

Students who complete the curriculum and other graduation requirements receive the Associate in Science in Nursery and Garden-Center Operation.

Learning Outcomes

Upon completion of this program, students will be able to:

- Execute the duties required to work in various horticulture production operations.
- Identify and describe plants that are common to nursery and garden center operations.
- Propagate and apply cultural care to produce saleable plant materials.
- Design and plan landscapes in commercial and residential applications

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Nursery and Garden-Center Operation

Course . . . . . Units
First semester
O H 76 Fall and Winter Plant Identification 4.0
O H 50 Introduction to Environmental Horticulture . . . 3.0
O H 56 Horticultural Machines 3.0

Second semester
O H 63 Soils 3.0
O H 75 Pest Management 3.0
O H 77 Spring and Summer Plant Identification 4.0

Third semester
O H 65 Plant Propagation 3.0
O H 70A Principles of Landscape Design 3.0
CMST 6 Workplace Communication* 3.0
or ESL 79 Advanced Speaking and Pronunciation* 3.0

* Students may satisfy this requirement by passing an accredited college level foreign language or oral presentation course.

Fourth semester
O H 60 Horticulture Business Practices 3.0
O H 97 Work Experience 3.0
O H 71A Landscape Construction 4.0

Total: 39.0

Certificate Curricula

The programs of study in Environmental Horticulture are designed to give students both broad and specialized training for entry level employment or to add to their capabilities in one of the following

fields: greenhouse operation, landscape maintenance, nursery and garden-center operations, landscape design or landscape construction.

Admission. Enrollment is open to all interested students.

Employment. A number of entry-level positions are open to those who complete training in any of the preceding fields. For example, those who complete the requirements in landscape horticulture may work as self-employed maintenance gardeners or take State and City civil service examinations for the position of maintenance gardener. Those who complete the requirements in greenhouse operation or nursery and garden-center operation are qualified for employment in sales work and in various kinds of horticultural production.

Commercial Cut-Flower Greenhouse Production Certificate

The program of study for this certificate is designed to give students both broad and specialized training for entry-level employment or to add to their capabilities in commercial cut-flower greenhouse production. Students who complete the requirements in greenhouse operation are qualified for employment in sales work and in various kinds of horticultural production.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and maintain plants used in commercial cut-flower and greenhouse production.
- Use horticulture machines in greenhouse and nursery operations.
- Propagate and produce plants for crops used in floriculture production.
- Utilize best business practices, salesmanship, and grower strategies in greenhouse production.

Credit Toward Graduation. All credit that students earn in obtaining this certificate may also be applied toward satisfaction of the requirements for graduation from the College.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Commercial Cut-Flower Greenhouse Production

Course	Units
Required	
O H 50 Introduction to Environmental Horticulture	3.0
O H 56 Horticultural Machines	3.0
O H 58 Greenhouse Operations	3.0
O H 60 Horticulture Business Practices	3.0
O H 63 Soils	3.0
O H 65 Plant Propagation	3.0
O H 75 Pest Management	3.0
O H 76 Fall and Winter Plant Identification	4.0
O H 77 Spring and Summer Plant Identification	4.0
CMST 6 Workplace Communication*	3.0
or ESL 79 Advanced Speaking and Pronunciation*	3.0

* Students may satisfy this requirement by passing an accredited college level foreign language or oral presentation course.

Total: 32.0

Landscape Construction Certificate

This certificate is designed to give students both broad and specialized training for entry-level employment in landscape construction or to add to their current capabilities in order to create a business in landscape construction.

Learning Outcomes

Upon completion of this program, students will be able to:

- Install landscapes and horticulture environments.
- Operate landscape construction and maintenance power equipment to construct landscapes in a safe manner.
- Manipulate appropriate plant and inorganic materials to create landscape environments and gardens for human use.
- Apply business and marketing practices unique to landscape construction and maintenance businesses.

Credit Toward Graduation. All credit that students earn in obtaining this certificate may also be applied toward satisfaction of the requirements for graduation from the College.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Landscape Construction

Course	Units
Required courses:	
O H 50 Introduction to Environmental Horticulture	3.0
O H 56 Horticultural Machines	3.0
O H 60 Horticulture Business Practices	3.0
O H 63 Soils	3.0
O H 71A Landscape Construction	4.0
O H 71B Landscape Construction	4.0
O H 75 Pest Management	3.0
O H 76 Fall and Winter Plant Identification	4.0
O H 77 Spring and Summer Plant Identification	4.0
CMST 6 Workplace Communication*	3.0
or ESL 79 Advanced Speaking and Pronunciation*	3.0

* Students may satisfy this requirement by passing an accredited college level foreign language or oral presentation course.

Total: 34.0

Landscape Design Certificate

The program of study for this certificate is designed to give students both broad and specialized training for entry-level employment or to add to their current capabilities to create a business in landscape design.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply elements and principles of design and analytical techniques to determine types and structures of plants used in a plant palette.
- Analyze sustainability techniques used in the design and construction of landscapes and gardens.
- Explain the roles and business practices of landscape designers and contractors.

Credit Toward Graduation. All credit that students earn in obtaining

this certificate may also be applied toward satisfaction of the requirements for graduation from the College.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Landscape Design

Course	Units
Required courses:	
O H 50 Introduction to Environmental Horticulture	3.0
O H 56 Horticultural Machines	3.0
O H 60 Horticulture Business Practices	3.0
O H 63 Soils	3.0
O H 70A Principles of Landscape Design	3.0
O H 70B Advanced Principles of Landscape Design	3.0
O H 75 Pest Management	3.0
O H 76 Fall and Winter Plant Identification	4.0
O H 77 Spring and Summer Plant Identification	4.0
CMST 6 Workplace Communication*	3.0
or ESL 79 Advanced Speaking and Pronunciation*	3.0

* Students may satisfy this requirement by passing an accredited college level foreign language or oral presentation course.

Total: 32.0

Landscape Maintenance Certificate

The program of study for this certificate is designed to give students both broad and specialized training for entry-level employment as maintenance gardeners or to add to their capabilities in landscape maintenance including preparation for State and Civil Service examinations for the position of maintenance gardener.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply horticulture care and processes to maintain residential and commercial landscapes.
- Identify and maintain plants based on Fall/Winter, Spring/Summer seasons.
- Execute the duties required to work in various kinds of horticultural businesses.

Courses Required for the Certificate of Achievement in Landscape Maintenance

Course	Units
Required courses:	
O H 50 Introduction to Environmental Horticulture	3.0
O H 53A Beginning Landscape Horticulture	3.0
O H 53B Advanced Landscape Horticulture	3.0
O H 56 Horticultural Machines	3.0
O H 60 Horticulture Business Practices	3.0
O H 63 Soils	3.0
O H 75 Pest Management	3.0
O H 76 Fall and Winter Plant Identification	4.0
O H 77 Spring and Summer Plant Identification	4.0
CMST 6 Workplace Communication	3.0
or ESL 79 Advanced Speaking and Pronunciation	3.0

Total: 32.0

Nursery and Garden-Center Operation Certificate

The program of study for this certificate is designed to give students both broad and specialized training for entry-level employment in sales work and in various kinds of horticultural production or to add to their capabilities in nursery and garden-center operation.

Learning Outcomes

Upon completion of this program, students will be able to:

- Execute the duties required to work in various horticulture production operations.
- Identify and describe plants that are common to nursery and garden center operations.
- Propagate and apply horticultural care to produce saleable plant materials.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Nursery and Garden-Center Operation

Course	Units
Required courses:	
O H 50 Introduction to Environmental Horticulture	3.0
O H 56 Horticultural Machines	3.0
O H 60 Horticulture Business Practices	3.0
O H 63 Soils	3.0
O H 75 Pest Management	3.0
O H 76 Fall and Winter Plant Identification	4.0
O H 77 Spring and Summer Plant Identification	4.0
CMST 6 Workplace Communication*	3.0
or ESL 79 Advanced Speaking and Pronunciation*	3.0

* Students may satisfy this requirement by passing an accredited college level foreign language or oral presentation course.

Total: 26.0

Floristry

Floristry Major (AS)

Instruction in retail floristry is offered in cooperation with the American Institute of Floral Designers, San Francisco Bay Area Retail Florists Association and California State Florists Association.

Enrollment is open to all interested students.

The two-year course of study is designed to give students thorough and well-balanced training in buying flowers, the art of arranging and selling them to the public, and operating a retail flower shop. Students who complete the curriculum satisfactorily are qualified for employment as designers and salespersons in the retail floral industry.

The course of study includes instruction in the following: beginning, intermediate and advanced floral design, flower shop procedures, "hands-on" floral work experience, flower shop management, merchandising, marketing, basic business arithmetic, and record keeping.

Students who complete the curriculum and other graduation requirements receive the Associate in Science in Floristry.

Learning Outcomes

Upon completion of this program, students will be able to:

- Arrange floral project proficiently and artistically.

- Identify, select, and purchase plants and flowers appropriate for floral design products and retail business
- Apply management practices necessary to operate a floral business.

Assuming students start this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Floristry

Course	Units
First Semester	
R F 80A Flower Shop Procedures and Basic Designs	5.0
R F 81A Fall and Winter Flower and Foliage Identification/Culture and Care	2.0
or R F 81B Spring and Summer Flower and Foliage Identification/Culture and Care	2.0
Choose one of the following	
R F 85A Introduction to Floral Design Spring	2.0
R F 85B Introduction to Floral Design Summer	2.0
R F 85C Introduction to Flower Arranging Fall	2.0
R F 85D Introduction to Flower Arranging Winter	2.0
Second Semester	
ACCT 10 Introduction to Accounting	5.0
R F 80B Intermediate Floral Design	5.0
R F 82 Interior Plant Identification	3.0
Third Semester	
R F 80C Advanced Floral Design	4.0
R F 86A Beginning Oriental Flower Arrangement	2.0
R F 98 Retail Floristry Work Experience	3.0
Fourth Semester	
R F 84 Flower Shop Operations	3.0
R F 98 Retail Floristry Work Experience	2.0 – 6.0
MRKT 122 Professional Selling	3.0
or MRKT 140 Introduction to Marketing	3.0
or MRKT 170 Advertising and Integrated Marketing Communication	3.0
Total:	**39.0 – 43.0**

Floral and Special Events Coordinator Certificate

The Floral and Special Events Coordinator curriculum is designed to train floral design students to execute all details necessary to create a variety of events, such as seminars, conferences, trade shows, executive retreats, incentive programs, golf events, conventions, weddings, and other special occasions with an emphasis on floral decorations. Topics such as conducting a consultation and developing a client proposal and contracts specific to the floral industry and the financial aspects of floral events will also be covered.

Learning Outcomes

Upon completion of this program, students will be able to:

- Synthesize essential fundamental principles of design, hospitality, tourism, and business functions.
- Perform professionally in customer sales, service, delivery and installation of floral and related products for events.
- Use appropriate tools and technology to work effectively in the diverse floral event planning industry.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Floral and Special Events Coordinator

Course	Units
Required Courses	
CAHS 208 Meetings, Conventions & Special Events	3.0
ENTR 101 Introduction to Entrepreneurship	3.0
MRKT 180 Social Media Marketing	3.0
R F 80A Flower Shop Procedures and Basic Designs	5.0
R F 80B Intermediate Floral Design	5.0
R F 81A Fall and Winter Flower and Foliage Identification/Culture and Care	2.0
or R F 81B Spring and Summer Flower and Foliage Identification/Culture and Care	2.0
R F 84 Flower Shop Operations	3.0
R F 88 Designs in Floristry	2.5
R F 98 Retail Floristry Work Experience	6.0
Total:	**32.5**

Oriental Floral Design Certificate

Sogetsu Ikebana is offered in cooperation with the Sogetsu Ikebana, Soho Study Group, Ikebana International, Japan Ministry of Education, The American Institute of Floral Designers, San Francisco Bay Area Master Florists Association and California State Florists Association.

This two-year course of study is designed to give students thorough and well-balanced training in buying flowers, and the art of arranging in the Sogetsu Style.

This curriculum satisfactorily qualifies individuals to teach Sogetsu Ikebana on a private level.

The course of study includes instruction in beginning, intermediate and advanced levels of the Sogetsu curriculum under the guidance of experienced instructors. Students who complete the curriculum and other graduation requirements receive the Environmental Horticure/Floristry, Certificate of Accomplishment-Sogetsu and qualifies the student to apply for a level 5 Sogetsu School Certificate.

Learning Outcomes

Upon completion of this program, students will be able to:

- Arrange Oriental style floral projects proficiently and artistically.
- Identify, select, and purchase plants and flowers appropriate for oriental floral design projects.
- Identify and execute oriental arrangement styles and communicate the interpretive meanings and applications.

The minimum time for completion of this cerificate is 4 semesters. Completion time will vary based on srtudent preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Oriental Floral Design

Course	Units
Required courses:	
R F 85A Introduction to Floral Design Spring	2.0
R F 86A Beginning Oriental Flower Arrangement	2.0

R F 82 Interior Plant Identification 3.0
R F 81A Fall and Winter Flower and Foliage Identification/Culture and Care 2.0
R F 86B Oriental Flower Arrangement II 2.0
R F 86C Oriental Flower Arrangement III 2.0
R F 86D Oriental Flower Arrangement IV 2.0
R F 86E Oriental Flower Arrangement V 2.0
Total: 17.0

Retail Floristry Certificate

Instruction in retail floristry is offered in cooperation with the American Institute of Floral Designers, San Francisco Bay Area Retail Florists Association and California State Florists Association.

This course of study is designed to give students thorough and well-balanced training in buying flowers, the art of arranging and selling them to the public, and operating a retail flower shop. Students who complete the curriculum satisfactorily are qualified for employment as designers and salespersons in the retail floral industry.

The course of study includes instruction in the following: beginning, intermediate and advanced floral design, flower shop procedures, "hands-on" floral work experience, flower shop management, merchandising, marketing, basic business arithmetic, and recordkeeping.

Learning Outcomes

Upon completion of this program, students will be able to:

- Arrange floral projects proficiently and artistically.
- Identify, select, and purchase plants and flowers appropriate for floral design products and retail business.
- Apply management practices necessary to operate a floral business.

The minimum time for completion is 3 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Retail Floristry

Course . . . . . Units

Courses Required for the Retail Floristry Certificate

R F 80A Flower Shop Procedures and Basic Designs. 5.0
R F 80B Intermediate Floral Design 5.0
R F 80C Advanced Floral Design 4.0
R F 82 Interior Plant Identification 3.0
R F 84 Flower Shop Operations. 3.0
R F 86A Beginning Oriental Flower Arrangement. 2.0
R F 98 Retail Floristry Work Experience 6.0

Students must achieve six units of work experience, which may be taken over multiple semesters in increments of two or more units.

Choose one of the following

R F 85A Introduction to Floral Design Spring 2.0
R F 85B Introduction to Floral Design Summer 2.0
R F 85C Introduction to Flower Arranging Fall 2.0
R F 85D Introduction to Flower Arranging Winter 2.0

Choose one of the following

R F 81A Fall and Winter Flower and Foliage Identification/Culture and Care 2.0
R F 81B Spring and Summer Flower and Foliage Identification/Culture and Care 2.0
Total: 32.0

Announcement of Courses

Environmental Horticulture

Credit, Degree Applicable Courses:

O H 50. Introduction to Environmental Horticulture (3)
Lec-35, Lab-52.5, field trips
Overview of environmental horticulture: nursery and greenhouse production; landscape design, installation and maintenance. Career opportunities are explored in class and on field trips. Introduction to technical aspects including plant anatomy, soils and amendments, composting, plant propagation, planting and transplanting, irrigation, landscape maintenance, pruning, pests, and tree care. UC/CSU

O H 53A. Beginning Landscape Horticulture (3)
Lec-35, Lab-70
Recommended Prep: O H 50 and (O H 76 or O H 77)
The principles and practices of garden planting and maintenance will be covered in practical laboratory experiences in the Horticulture Center and on the college campus. Care and maintenance of established gardens; irrigation, fertilizing, pruning, identifying and controlling weeds and plant pests and diseases. CSU
Offered Spring and Fall semesters

O H 53B. Advanced Landscape Horticulture (3)
Lec-35, Lab-70
Prereq: O H 53A
This advanced course prepares the student to install and maintain new and established gardens. Course work will include, but is not limited to irrigation and sprinkler systems, drainage and erosion control, xeriscaping, maintenance estimates, proposals and agreements. Instruction in troubleshooting and supervising others will be included. CSU
Offered Spring and Fall Semester

O H 55. Tree Care (3)
Lec-35, Lab-52.5, field trips
Recommended Prep: O H 50 or O H 76 or O H 77
Care and management of trees common to residential, public, and commercial landscaping. Emphasizes correct planting, irrigating, fertilizing, pest control, and pruning. Use of saws, ropes, and other safety equipment in the tree industry is covered. Prepares student for the International Society of Arboriculture Certified Arborist Exam. CSU
Offered on occasion

O H 56. Horticultural Machines (3)
Lec-35, Lab-52.5, field trips
Recommended Prep: O H 50
Field and shop practice in the safe and proper operation of necessary horticultural equipment. Preventative service and maintenance will be stressed during all lab and lecture sessions. CSU
Offered Spring semesters

O H 58. Greenhouse Operations (3)
Lec-35, Lab-52.5, field trips
Recommended Prep: O H 50
Overview of commercial greenhouse operations including materials and construction, heating and cooling systems, containers and greenhouse equipment. Management of growing medium, irrigation, fertilization, temperature, growth regulators, CO2, and light. Alternative cropping systems, post-production storage and handling discussed. Crops surveyed include foliage, cut flowers, potted flowering plants and bedding plants. CSU
Offered Fall semesters

O H 60. Horticulture Business Practices (3)
Lec-52.5
Recommended Prep: O H 50
Introduces students to the fundamentals required to run a horticultural enterprise. Addresses issues facing horticultural entrepreneurs as well as management challenges faced in larger horticultural businesses. Emphasis is on landscape-related businesses. Guest speakers from landscape design and construction, landscape maintenance, arboriculture, consulting, restoration management, nursery operations and others. CSU
Offered Fall semesters

O H 63. Soils (3)
Lec-35, Lab-52.5, field trips
Recommended Prep: O H 50 or field experience
Introduces students to soils and growing media in environmental horticulture. Preparation and management of field and container soils. Soil composition and texture, soil chemistry, organic matter, colloids, soil structure, soil water and pH, plant nutrients and fertilizers, amendments, composting, beneficial soil organisms and diseases. Sustainable soil management practices. CSU
C-ID AG-PS 128 + AG-PS 128L
Offered Spring semesters

O H 65. Plant Propagation (3)
Lec-35, Lab-52.5, field trips
Recommended Prep: O H 50
Principles and practices of reproducing plants as commercially practiced in the horticulture industry. Topics include propagation by seed, and vegetative methods including cuttings, layering, division, grafting and micro-propagation. Field trips to local greenhouses and nursery operations. CSU
C-ID AG-EH 116L
Offered Spring semesters

O H 66. Irrigation (3)
Lec-35, Lab-52.5, field trips
Recommended Prep: O H 50
Basics of design, installation and maintenance of sprinkler and drip irrigation systems for nurseries, greenhouses and landscapes. Topics include establishing hydrozones, backflow prevention, calculating pressure and flow requirements, system design and installation, equipment and fittings, automatic control systems and water conservation technologies. CSU
Offered Fall semesters

O H 70A. Principles of Landscape Design (3)
Lec-35, Lab-52.5, field trips
Lectures, reading assignments, and hands-on laboratory projects involving the principles of landscape design, especially as applied to residential properties. Graphic and drafting techniques are included. CSU
Offered Fall semesters

O H 70B. Advanced Principles of Landscape Design (3)
Lec-35, Lab-52.5, field trips
Prereq: O H 70A
The principles of advanced landscape design especially as applied to residential properties including lectures, field trips, and hands-on laboratory projects using hand drawing techniques and computer programs. CSU
Offered Spring semesters

O H 71A. Landscape Construction (4)
Lec-35, Lab-105, field trips
Principles of landscape construction applicable to horticulture. Safety, tools, hardware, lumber, fences, gates, benches, decks, steps, paints, stains, concrete paving, concrete blocks, stone walls, and other physical aspects of landscape construction are presented. CSU
Offered on occasion

O H 71B. Landscape Construction (4)
Lec-35, Lab-105, field trips
Recommended Prep: O H 71A
Advanced principles of construction for the landscape from design to installation. Advanced irrigation projects involving copper pipe cutting, prepping and soldering. Irrigation valve placement and means of back-flow prevention. Irrigation clock wiring design and installation. Designing and building fences, gates, benches, decks and steps. Advanced concrete and masonry projects. CSU
Offered on occasion

O H 75. Pest Management (3)
Lec-52.5
Recommended Prep: O H 50
An overview of pest management in landscape, greenhouse, and nursery operations. Identification and analysis of damage related to weeds, insects, mites, fungi, bacteria, virus, mollusks, nematodes and mammal pests. Em phasis on Integrated Pest Management. Cultural, mechanical, biological and least-toxic chemical techniques, legal requirements, and safety. This course provides preparation for the Qualified Applicator Certificate. CSU
Offered Spring semesters

O H 76. Fall and Winter Plant Identification (4)
Lec-70, field trips
Identification of approximately 150 ornamental plants commonly used in San Francisco Bay Area Landscapes for Fall and Winter bloom, fruit, or foliage. This course covers basic plant anatomy and terminology used in the taxonomic classification of plants. Emphasis is on cultural requirements, habits of growth and horticultural use of plants. UC/CSU
C-ID AG-EH 108 + AG-EH 108L (O H 76 + O H 77); C-ID AG-EH 109L + AG-EH 112 (O H 76 + O H 77)
Offered Fall semesters

O H 77. Spring and Summer Plant Identification (4)
Lec-70, field trips
Identification of approximately 150 ornamental plants commonly used in the San Francisco Bay Area for Spring and Summer bloom, fruit, or foliage. Covers basic plant anatomy and terminology used in the taxonomic classification of plants. Emphasis is on cultural requirements, habits of growth and landscape use of plants. UC/CSU
C-ID AG-EH 108 + AG-EH 108L (O H 77 + O H 76); C-ID AG-EH 109L + AG-EH 112 (O H 77 + O H 76)
Offered Spring semesters

O H 91. Independent Study (1)
Lab-52.5, field trips
Prereq: 6 units of O H course work
Individual research on a special topic in environmental horticulture. Opportunity for students to investigate horticultural problems of special interest or conduct an in-depth project. Emphasis on practical application and current issues in horticulture. CSU
Students should have their projects approved by the O H Department.
Offered on occasion

O H 92. Independent Study (2)
Lab-105, field trips
Prereq: 6 units of O H course work
Individual research on a special topic in environmental horticulture. Opportunity for students to investigate horticultural problems of special interest or conduct an in-depth project. Emphasis on practical application and current issues in horticulture. CSU
Students should have their projects approved by the O H Department.
Offered on occasion

O H 93. Independent Study (3)
Lab-157.5, field trips
Prereq: 6 units of O H course work
Independent research on a special topic in environmental horticulture. Opportunity to investigate horticultural problems of special interest or conduct an in-depth project. Emphasis on practical application and current issues in horticulture. CSU
Students should have their projects approved by the O H Department.
Offered on occasion

O H 97. Work Experience (2-4)
Work-120-300
Recommended Prep: Completion of or concurrent enrollment in: A Floristry or Horticulture course and/or approval of the Horticulture Department
Repeat: Repeated up to 12.00 units
Field application of principles taught in horticulture classes. A supervised work experience program with cooperating employers, providing hands-on experience and transition into commercial practice. Students acquire job experience, career development skills and practical workplace skills related to their chosen field of horticulture. Preparation of portfolios and resumes. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
Offered on occasion

O H 101. Urban Garden Practices (3)
Lec-52.5 P/NP available
Topics include basic tools, soil, composting, planning a garden adapted to microclimates, plant selection, seed germination, transplanting, watering and water conservation, integrated pest management, maintenance and pruning. Plants discussed will include annuals, bulbs, perennials, groundcovers, lawns, shrubs, trees, vegetables, drought tolerant plants, and houseplants. Appropriate for all interested in gardening. CSU
Offered on occasion

O H 111A. Year Round Garden Color (1)
Lec-17.5, field trips
Recommended Prep: O H 50
Includes selecting and planting colorful, harmonious combinations of annuals, perennials shrubs and trees. Multicolored planters will be created in class. A selected garden with vivid year round color will be visited. CSU
Offered on occasion

O H 111B. Growing Orchids (2)
Lec-35, field trips
Cultural needs of individual orchids, including materials needed and how to grow, pot, divide and water many different kinds of orchids. Troublesome ailments, diseases, and pests coupled with solutions and cures. CSU
Offered on occasion

O H 111C. Container Gardening (1)
Lec-17.5, field trips
Recommended Prep: O H 50 or O H 76 or O H 77 or R F 80A or R F 81A
Introduction to use and care of landscape container plantings, design considerations, container types, installation and maintenance practices unique to container culture. Choosing plant materials well suited to use in containers, for commercial and residential settings will be covered. CSU
Offered on occasion

O H 111D. Introduction to Xeriscaping (1)
Lec-17.5, field trips
Recommended Prep: O H 50
Theory and practice of water conservation in the landscape through the use of drought tolerant plants, efficient irrigation and appropriate design. CSU
Offered on occasion

Floristry

Credit, Degree Applicable Courses:

R F 80A. Flower Shop Procedures and Basic Designs (5)
Lec-52.5, Lab-105, field trips
Beginning floral design techniques used by professional flower artists. Includes principles and elements of basic floral designs, corsage and body flower construction, use of ribbon and other decorative accessories as well as identification of floral materials and supplies used in commercial floristry. CSU
Offered Fall and Spring semesters

R F 80B. Intermediate Floral Design (5)
Lec-70, Lab-52.5, field trips
Recommended Prep: R F 80A or demonstration of exit skills
Intermediate study of and practice in professional flower arranging techniques used by the floral industry. Emphasis on sympathy and celebration of life tributes, window and store display, high style design and contemporary european floral design. CSU
Offered Fall and Spring semesters

R F 80C. Advanced Floral Design (4)
Lec-70, Lab-17.5, field trips
Recommended Prep: R F 80B
Advanced principles and techniques for designing, coordinating and installing floral displays for weddings, parties, special events, churches, receptions, residences, venues, retail stores and corporate accounts. Traditional, contemporary and European style designing for wedding bouquets, personal flowers, arrangements and display design. CSU
Offered Fall and Spring semesters

R F 81A. Fall and Winter Flower and Foliage Identification/Culture and Care (2)
Lec-35
Identification of cut flowers and foliage used in commercial floristry, with emphasis on post-harvest care and handling, vase life, wholesale packaging, pricing, and uses in floral design. Focus is on crops available in the fall and winter. CSU
Offered Fall and Spring semesters

R F 81B. Spring and Summer Flower and Foliage Identification/Culture and Care (2)
Lec-35
Identification of cut flowers and foliage used in commercial floristry, with emphasis on post-harvest care and handling, vase life, wholesale

packaging, pricing, and uses in floral design. This course will focus on crops available in the spring and summer. CSU
Offered Fall and Spring semesters

R F 82. Interior Plant Identification (3)
Lec-52.5, field trips
Identification of indoor/tropical house plants used in commercial floristry and horticulture, with emphasis on post-harvest care and handling, wholesale and retail pricing, packaging and uses in interior plantscapes, floral design, and display. CSU
Offered on occasion

R F 84. Flower Shop Operations (3)
Lec-52.5, field trips
Principles and practices of flower shop operations including salesmanship, types of shops, merchandising, buying, advertising, delivering, and personnel from a floral business owner perspective. CSU
Offered Fall semesters

R F 85A. Introduction to Floral Design - Spring (2)
Lec-35, Lab-17.5
Introduction to basic flower arranging for spring, flower and foliage use, care and handling of spring fresh materials, use of spring ever-lasting materials, flower forms, types and use of containers. Basic historical periods and styles of spring decorating for beginners. CSU
Offered Spring semesters

R F 85B. Introduction to Floral Design - Summer (2)
Lec-35, Lab-17.5
Introduction to basic flower arranging for summer, flower and foliage use, care and handling of summer fresh materials and ever-lasting materials, flower forms, types and use of containers. Basic historical periods and styles of summer decorating for beginners. CSU
Offered Summer semesters

R F 85C. Introduction to Flower Arranging Fall (2)
Lec-35, Lab-17.5
Introduction to basic flower arranging, flower and foliage use, care and handling of fresh materials, use of ever-lasting materials, flower forms, types and use of containers for fall arrangements. Basic historical periods and styles of decorating for beginners. CSU
Offered Fall semesters

R F 85D. Introduction to Flower Arranging Winter (2)
Lec-35, Lab-17.5
Introduction to basic flower arranging for winter. Flower and foliage use, care and handling of fresh materials, use of ever-lasting materials, flower forms, types and use of containers. Basic historical periods and styles of decorating for winter for beginners. CSU
Offered on occasion

R F 86A. Beginning Oriental Flower Arrangement (2)
Lec-35, Lab-17.5
Basic understanding and appreciation of Oriental style flower arrangement known as Ikebana. Beginning design, experimentation, technique, exploration, and critique intended to develop creativity and manipulation of floral materials. CSU
Students provide own materials. Formerly RF 86
Offered Fall and Spring semesters

R F 86B. Oriental Flower Arrangement II (2)
Lec-35, Lab-17.5, field trips
Prereq: R F 86A or demonstration of exit skills
Second level of understanding and appreciation of Oriental style flower arrangement, known as Ikebana. Variations of beginning designs, experimentation, technique, exploration, and critique intended to develop creativity and manipulation of floral materials at the next level from RF 86A. CSU
Offered Fall and Spring semesters

R F 86C. Oriental Flower Arrangement III (2)
Lec-35, Lab-17.5, field trips
Prereq: R F 86B or demonstration of exit skills
Third level of understanding and appreciation of Oriental style flower arrangement, known as Ikebana. Variations of beginning and second level designs, experimentation, technique, exploration, and critique intended to develop creativity and manipulation of floral materials at the next level from RF 86A and B. CSU
Offered Fall and Spring semesters

R F 86D. Oriental Flower Arrangement IV (2)
Lec-35, Lab-17.5, field trips
Prereq: R F 86C or demonstration of exit skills
Fourth level of understanding and appreciation of Ikebana Oriental style flower arrangement. Variations of beginning, second and third level designs, experimentation, technique, exploration, and critique intended to develop creativity and manipulation of floral materials at the next level from RF 86 A, B and C. CSU
Offered Fall and Spring semesters

R F 86E. Oriental Flower Arrangement V (2)
Lec-35, Lab-17.5, field trips
Prereq: R F 86D or demonstration of exit skills
Level Five explores the Sogetsu premise of flower and foliage use, care and handling of fresh materials, use of ever-lasting materials, flower forms, types and use of containers from a historic and current perspective. The course includes experimentation, technique, exploration, and critique intended to develop creativity and manipulation of floral materials that have been introduced for the new millennia. CSU
Students provide own materials.

R F 88. Designs in Floristry (2.5)
Lec-35, Lab-35, field trips
Recommended Prep: Practical experience in floral industry
An in-service training for those engaged in the field of floristry and/or enrolled in Retail Floristry. Guest lecturer-demonstrators. Design work and topics such as trends in such topics as body flowers, new techniques, internationally influenced design styles, memorial flowers, special events, weddings, competition, and exhibition designs. CSU
Offered on occasion

R F 98. Retail Floristry Work Experience (1-6)
Work-60-450
Prereq: Approval of the Environmental Horticulture Department
Repeat: Repeated up to 14.00 Units
A supervised work experience program at an approved florist or related business. Designed to provide the student an opportunity to successfully gain employment and to learn and practice skills with professional guidance. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU
Offered Fall and Spring semesters

Environmental Science*

* Find the Environmental Science AS in Biology

Environmental Studies*

* Find the Environmental Studies AS in Earth Sciences

Ethnic Studies*

* See "African American Studies," "Asian American Studies," "Asian Studies," "Latin American and Latino/a Studies," or "Philippine Studies."

Fashion

Office: Batmale 210
Phone Number: (415) 239-3588
Web Site: *www.ccsf.edu/fashion*

Announcement of Curricula

General Information

The Fashion Department is dedicated to teaching the requisite skills needed for success in all aspects of the fashion industry. The curricula offer students interested in careers in fashion merchandising and design, specialized programs and training for career advancement and employment.

Admission. Enrollment is open to all interested students.

Fashion Merchandising Major (AS)

Upon completion of the AS in Fashion Merchandising, students will be qualified to work as sales associates, merchandise specialists, retail managers, retail buyers and assistant buyers, visual merchandisers, stylists, fashion show producers, special events consultants, fashion coordinators, fashion writers and publicists, fashion forecasters, show room assistants, and bookers in modeling agencies. All positions include working for department stores, specialty stores, boutiques, and private companies, as well as working as entrepreneurs.

Classes include all areas of the fashion merchandising field and are designed to give students exposure to a variety of fashion experiences. FASH A is strongly recommended for all students in this program. A major in Fashion Merchandising gives students improved job prospects in the industry.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply technical skills used in various aspects of fashion merchandising.
- Compare social and cultural factors affecting fashion change and adoption.
- Communicate effectively using standard fashion industry terminology.
- Perform entry-level business skills in the fashion merchandising industry.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Fashion Merchandising

Course	Units
Fall semester first year required courses	
FASH 42 Introduction to the Fashion Industry	3.0
FASH 54A Fashion Styling	3.0
Fall semester first year–choose one of the following specialty courses	
FASH 22 Textile Analysis	3.0
FASH 44 Fashion Retail Buying and Merchandising	3.0
FASH 45A Personal Styling	3.0
Spring semester first year required courses	
FASH 57 Fabric Glossary	1.0
FASH 61 Fashion Merchandising/Marketing Internship	2.0
Spring semester first year–choose one of the following specialty courses	
FASH 23 Fashion History	3.0
FASH 56 Fashion Writing, Publicity, & Social Media	3.0
FASH 112 Digital Illustration for Fashion	3.0
Fall semester second year required courses	
FASH 49 Visual Merchandising	3.0
FASH 55 Icons of Contemporary Fashion	3.0
Fall semester second year–choose one of the following specialty courses	
FASH 22 Textile Analysis	3.0
FASH 44 Fashion Retail Buying and Merchandising	3.0
FASH 45A Personal Styling	3.0
FASH 54B Advanced Fashion Styling	3.0
Spring semester second year required courses	
FASH 48 Fashion Show Production	4.0
FASH 53 Fashion Forecasting	3.0
FASH 60 Fieldwork Fashion Shows and Events	1.0
Total:	**32.0**

Fashion Design Major (AS)

The Fashion Design Associate degree builds on the Fashion Design Certificate, adding required general education courses. The Design degree gives students a strong basis in design concepts, industry terminology, clothing construction, presentations, and illustration techniques. Fashion design training can lead to careers as fashion illustrators, designers, technical designers, patternmakers, product developers, and entrepreneurs. With the additional general education courses, students will enhance their writing and social awareness skills.

Learning Outcomes

Upon completion of this program, students will be able to:

- Create fashion garments from initial design concept to final product.
- Analyze and select appropriate raw materials and techniques for fashion products.
- Relate the history and social context of fashion to the current fashion zeitgeist.
- Apply technical and professional skills expected of an employee or an entrepreneur in the fashion industry.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS

degree is four semesters, depending on student preparation and the number of units completed per semester.

Students are encouraged to apply for both the Fashion Design Certificate of Achievement and the AS degree.

Courses Required for the Major in Fashion Design

Course	Units
Fall semester first year required courses	
FASH 15A Apparel Construction 1	3.0
FASH 22 Textile Analysis	3.0
FASH 35A Fashion Illustration I	3.0
FASH 42 Introduction to the Fashion Industry	3.0
Spring semester first year required courses	
FASH 15B Apparel Construction 2	3.0
FASH 27 Fashion Draping	3.0
FASH 36A Fashion Design I	3.0
Fall semester second year required courses	
FASH 26 Flat Pattern Design I	3.0
FASH 36B Fashion Design II	3.0
FASH 63 Fashion Design & Production Internship	2.0
Spring semester second year required courses	
FASH 23 Fashion History	3.0
FASH 51 Creating a Garment Business	3.0
Choose six units from the following courses	
FASH 16 Garment Fitting Techniques	3.0
FASH 35B Fashion Illustration II	3.0
FASH 37 Flat Pattern Design II	3.0
FASH 112 Digital Illustration for Fashion	3.0
Total:	**41.0**

Apparel Construction Certificate

The Apparel Construction Certificate of Achievement takes students from basic sewing skills through the advanced construction techniques and sequences used to sew complex garments in the fashion industry. Students learn both home and industry methods for proper garment construction and fitting. Certain segments of the fashion industry use specialized skills and materials not used in other forms of garment production. The specialized and advanced techniques also prepare the student to utilize them in either production or custom settings.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret and apply a fashion production pattern.
- Construct multiple types of garments from a wide variety of fabrics.
- Analyze and apply the appropriate order of construction, techniques, and equipment to complete a variety of garments.
- Employ appropriate hand and machine techniques for a variety of apparel.
- Achieve proper fit for multiple garments.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Apparel Construction

Course	Units
Fall semester first year courses	
FASH 15A Apparel Construction 1	3.0
FASH 22 Textile Analysis	3.0
Spring semester first year courses	
FASH 15B Apparel Construction 2	3.0
FASH 16 Garment Fitting Techniques	3.0
Fall semester second year courses	
FASH 26 Flat Pattern Design I	3.0
FASH 27 Fashion Draping	3.0
FASH 72 Drafting a Sloper (Moulage)	1.0
FASH 73 Sewing with Knit and Stretch Fabrics	1.0
Total:	**20.0**

Entrepreneurship and Innovation in Fashion Design and Merchandising Certificate

This certificate program is designed to prepare students in Fashion Design and Merchandising to engage in the world of entrepreneurship. The program's interdisciplinary approach to entrepreneurship equips students with relevant tools in exploring various pathways to entrepreneurship such as full-time business ownership, sub-contracting (freelancing), consulting, corporate intrapreneurship or mission-driven social entrepreneurship.

This interdisciplinary certificate provides students with basic fashion merhandising concepts, understanding of industry terminology, clothing construction, presentations, and illustration techniques. Fashion merchandising training can lead to careers as full-time or freelance fashion illustrators, designers, technical designers, patternmakers, product developers and entrepreneurs.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply an entrepreneurial mindset that breeds creativity and innovation in the field of fashion merchandising.
- Use terms and concepts related to functional areas of entrepreneurship necessary for startups.
- Analyze the marketing environment to identify entrepreneurial opportunities and areas for growth and development.
- Develop an agile and lean business plan for a startup project/enterprise that is ready for pitching.
- Compare different entrepreneurship pathways in relation to a project or business idea related to fashion merchandising.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Entrepreneurship and Innovation in Fashion Design and Merchandising

Course	Units
Required	
ENTR 101 Introduction to Entrepreneurship	3.0
ENTR 102 Applied Design Thinking for Entrepreneurship	1.5
DSGN 105 Design Thinking	1.5
MRKT 140 Introduction to Marketing	3.0
Fashion Design and Merchandising	
FASH 45A Personal Styling	3.0
FASH 48 Fashion Show Production	4.0
FASH 54A Fashion Styling	3.0
Total:	**19.0**

Fashion Design Certificate

The Fashion Design certificate gives students a strong basis in design concepts, industry terminology, clothing construction, presentations, and illustration techniques. Fashion design training can lead to careers as fashion illustrators, designers, technical designers, patternmakers, product developers, and entrepreneurs.

Learning Outcomes

Upon completion of this program, students will be able to:

- Create fashion garments from initial design concept to final product.
- Analyze and select appropriate raw materials and techniques for fashion products.
- Relate the history and social context of fashion to the current fashion zeitgeist.
- Apply technical and professional skills expected in the fashion industry, as an employee or an entrepreneur.

The minimum time for completion of this certificate is 4 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Fashion Design

Course	Units
Fall semester first year required courses:	
FASH 15A Apparel Construction 1	3.0
FASH 35A Fashion Illustration I	3.0
Spring semester first year required courses:	
FASH 27 Fashion Draping	3.0
FASH 36A Fashion Design I	3.0
Fall semester second year required courses:	
FASH 26 Flat Pattern Design I	3.0
FASH 112 Digital Illustration for Fashion	3.0
Spring semester second year required courses:	
FASH 23 Fashion History	3.0
FASH 16 Garment Fitting Techniques	3.0
Total:	**24.0**

Fashion Illustration Certificate

The Certificate of Achievement in Fashion Illustration prepares the student to communicate in the global language of fashion illustration, be it technical or artistic.

Learning Outcomes

Upon completion of this program, students will be able to:

- Render artistically a variety of garments on a variety of body types in different media.
- Create technical drawings that accurately communicate design and construction details for apparel construction.
- Apply the principles and history of fashion design in creating a fashion collection.
- Create a digital and printed illustration portfolio for entrepreneurial pursuits and entry-level employment.

The minimum time for completion of this certificate is 4 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Fashion Illustration

Course	Units
Fall semester first year required courses	
FASH 35A Fashion Illustration I	3.0
ART 130A Basic Drawing	3.0
Spring semester first year required courses	
FASH 36A Fashion Design I	3.0
FASH 57 Fabric Glossary	1.0
Fall semester second year required courses	
FASH 35B Fashion Illustration II	3.0
Spring semester second year required courses	
FASH 112 Digital Illustration for Fashion	3.0
Choose one of the following courses	
FASH 23 Fashion History	3.0
or FASH 55 Icons of Contemporary Fashion	3.0
Total:	**19.0**

Fashion Merchandising Certificate

The Certificate of Achievement in Fashion Merchandising fulfills the needs of two groups: those who desire to prepare for employment in the fashion merchandising field and those currently employed who wish to improve their on-the-job skills in this industry.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply technical skills used in various aspects of fashion merchandising.
- Compare social and cultural factors affecting fashion change and adoption.
- Communicate effectively using standard fashion industry vocabulary.
- Perform entry-level business skills in the fashion merchandising industry.

The minimum time for completion of this certificate is four semesters; completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Fashion Merchandising

Course	Units
Fall semester first year required courses	
FASH 42 Introduction to the Fashion Industry	3.0
FASH 54A Fashion Styling	3.0
Spring semester first year required courses	
FASH 48 Fashion Show Production	4.0
FASH 61 Fashion Merchandising/Marketing Internship	2.0
Fall semester second year required courses	
FASH 44 Fashion Retail Buying and Merchandising	3.0
FASH 49 Visual Merchandising	3.0
Spring semester second year required courses	
FASH 53 Fashion Forecasting	3.0
Total:	**21.0**

Fashion Styling and Personal Styling Certificate

The Certificate of Achievement in Fashion Styling and Personal Styling is a hands-on, field-based program that teaches students the requisite skills to become fashion stylists, personal stylists, personal shoppers, and sales associates, for a retailer or as independent contractors. Coursework includes instruction in assembling a styling kit, the different aspects of merchandise styling, color and wardrobe selection, figure analysis, and setting up a business. Students completing this certificate will be qualified for employment as a photo, fashion show, film, video, and personal stylist.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the principles of design, skills, and styling techniques to diverse styling roles.
- Communicate using standard fashion terminology and references to fashion icons and designers, and visually through styling methods.
- Create and present digital mood boards.
- Assemble and maintain a fashion styling kit.
- Create a digital and printed styling portfolio for entrepreneurial business and entry-level employment.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Fashion Styling and Personal Styling

Course	Units
Fall semester first year required courses	
FASH A Introduction to Sewing	1.0
FASH 45A Personal Styling	3.0
FASH 57 Fabric Glossary	1.0
Spring semester first year required courses	
FASH 53 Fashion Forecasting	3.0
FASH 54A Fashion Styling	3.0
Fall semester second year required courses	
FASH 54B Advanced Fashion Styling	3.0
FASH 60 Fieldwork Fashion Shows and Events	1.0
FASH 62 Work Experience in Personal Styling	1.0 – 3.0
Total:	**16.0 – 18.0**

Patternmaking Certificate

The Patternmaking Certificate of Achievement prepares students to create patterns for a variety of garments that meet industry standards for production. Students learn different methodologies of developing patterns from sketches or samples. The certificate prepares students for employment, creative fulfillment, or entrepreneurship.

Learning Outcomes

Upon completion of this program, students will be able to:

- Create an industrial-grade pattern that uses a variety of methodologies and is based on an interpreted design.
- Create patterns that employ standard industry pattern terminology and symbols for garment production.
- Apply the principles of pattern grading to develop a full size range for patterns.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Patternmaking

Course	Units
Fall semester required courses:	
FASH 15A Apparel Construction 1	3.0
FASH 16 Garment Fitting Techniques	3.0
FASH 22 Textile Analysis	3.0
FASH 26 Flat Pattern Design I	3.0
Spring semester required courses:	
FASH 27 Fashion Draping	3.0
FASH 29 Pattern Grading	1.0
FASH 37 Flat Pattern Design II	3.0
FASH 57 Fabric Glossary	1.0
Spring semester choose one of the following courses:	
FASH 67A Computerized Pattern Development: PAD	3.0
or FASH 67B Computerized Pattern Development: Gerber	3.0
Total:	**23.0**

Announcement of Courses

Credit, Non-Degree Applicable Course:

FASH A. Introduction to Sewing (1)
Lec-12, Lab-20 P/NP available
Learn the basics of hand sewing and sewing machines, how to make minor repairs to clothing, and how to construct a basic rectangular item in fabric. A good choice for the novice before moving on to FASH 15A, Apparel Construction 1.

NOTE: Some courses include a materials fee.

Credit, Degree Applicable Courses:

FASH 15A. Apparel Construction 1 (3)
Lec-35, Lab-52.5, field trips P/NP available
Recommended Prep: FASH A
A beginning course covering basic principles and concepts in the construction of garments. Emphasis on machine operation, sewing skills and techniques, and construction processes. Students will create sewing samples and 3-4 garments. CSU
Offered Fall and Spring semesters

FASH 15B. Apparel Construction 2 (3)
Lec-35, Lab-52.5, field trips P/NP available
Prereq: FASH 15A
Elements of garment construction using intermediate clothing construction methods and techniques. Multiple finishes, hard to handle fabrics, use of overlock, complex construction sequences. Students construct three garments using techniques from class. CSU
Offered Fall and Spring semesters

FASH 16. Garment Fitting Techniques (3)
Lec-35, Lab-52.5, field trips P/NP available
Prereq: FASH 15A
Recommended Prep: FASH 27
Introduction to fitting on a live model. Identify and correct fitting problems on sample muslin garments, including bodices, skirts, pants and jackets. Learn how to transfer those adjustments to the pattern and use draping techniques to create well-fitting production patterns. Fitting issues for knit and stretch fabrics will also be addressed. CSU
Offered Spring semesters

FASH 22. Textile Analysis (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Analysis of the performance and care of natural and man-made textile fibers, yarns, fabrics and other products. Fabric construction methods, fabric identification, dyeing and finishing processes are included. Discussion of current issues and innovations in the textile field. UC/CSU
Offered Fall semesters

FASH 23. Fashion History (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Chronological study of costumes in Western civilization from antiquity to the late 20th century, including social, economic and political influences on historic costume. Analysis of contemporary fashion design as influenced by historic styles. CSU
Offered Spring semesters

FASH 26. Flat Pattern Design I (3)
Lec-35, Lab-52.5 P/NP available
Recommended Prep: FASH 15A or basic sewing sewing machine skills
Principles and techniques of designing a garment pattern using flat pattern methods, focusing on the development of women's patterns. Using a basic sloper, students analyze designs and create patterns for those designs. Students will create a final, finished garment from an original design. This course requires basic sewing skills. CSU
Offered Fall and Spring semesters

FASH 27. Fashion Draping (3)
Lec-35, Lab-52.5 P/NP available
This is a beginning draping class, focused on women's clothing designs. Draping techniques to create various styles, including bias designs. Basic sewing skills are required. CSU
Offered Fall and Spring semesters

FASH 29. Pattern Grading (1)
Lec-8.75, Lab-26.25 P/NP available
Theories and techniques for grading patterns into multiple sizes, including principles of fit, how the body grows, and various size ranges. Conventional methods are used to practice the basic principles of grading on a variety of pattern types. CSU
Offered Spring semesters

FASH 35A. Fashion Illustration I (3)
Lec-35, Lab-52.5, field trips P/NP available
Students will learn beginning illustration skills to develop their ability to communicate fashion designs using a variety of media. Line, color, shading, proportions of the body, various views of the body, clothing details, fabric textures. CSU

FASH 35B. Fashion Illustration II (3)
Lec-35, Lab-52.5, field trips P/NP available
Prereq: FASH 35A
Building on the skills gained in Fashion Illustration 1 students will expand on their artistic renderings, 10 head proportions, coloration, and textile interpretations. Flat sketches in 8 head proportion will be introduced to create specification sheets for production. Students will learn to group their ideas into capsule collections. CSU
Offered Fall semesters

FASH 36A. Fashion Design I (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ART 130A or FASH 35A or demonstration of exit skills
This beginning course provides a foundation in the design principles of fashion. Students will work to develop visual research skills, identify design elements, and communicate ideas through the use of inspirational mood boards. Color and fabric stories will emerge from these boards to become designs for four seasonal clothing collections. CSU
Formerly FASH 36
Offered Fall and Spring semesters

FASH 36B. Fashion Design II (3)
Lec-52.5 P/NP available
Prereq: FASH 36A and FASH 35A
Recommended Prep: FASH 35B
Building on the skills learned in Illustration I and Design I, students will learn to develop fashion collections based on their own design aesthetic and philosophy. Emphasis on communicating design ideas, creating co hesive collections, and designing appropriately for a specific market. CSU
Offered Fall semesters

FASH 37. Flat Pattern Design II (3)
Lec-35, Lab-52.5, field trips P/NP available
Prereq: FASH 26
Continuation of techniques for pattern development, with an emphasis on industry production skills. Techniques covered include the development of complex designs, including patterns for tailored garments, pants, and patterns for stretch fabric. CSU
Offered Fall and Spring semesters

FASH 42. Introduction to the Fashion Industry (3)
Lec-52.5, field trips P/NP available
Overview of the fashion industry that prepares students to be on the cutting edge of what is happening. Emphasis on the economic, political, sociological, technological and psychological environment that affects fashion changes and evolution. Role of manufacturers, designers and retailers will be explored along with the elements of fashion marketing. CSU
Offered Fall and Spring semesters

FASH 44. Fashion Retail Buying and Merchandising (3)
Lec-52.5, field trips P/NP available
An overview of the buyer's core functions and responsibilities. Assortment planning, vendor negotiations, product development, basic retail math, and key merchandising strategies will be explored. Emphasis on building relationships with internal and external work groups will be covered. CSU
Offered Fall semesters

FASH 45A. Personal Styling (3)
Lec-52.5, field trips P/NP available
Fundamentals of personal styling, including conducting assessments, color analysis, body analysis, fashion personality, wardrobe management and business management CSU
Offered Fall semesters

FASH 48. Fashion Show Production (4)
Lec-52.5, Lab-70, field trips P/NP available
Recommended Prep: FASH 42
A comprehensive and hands-on introduction to producing a professional quality fashion show or presentation. From conceptualization to

execution, students will develop the skills and strategies necessary to produce an event. CSU
Offered Spring semesters

FASH 49. Visual Merchandising (3)
Lec-52.5, field trips P/NP available
A practical study of merchandise display in a variety of business establishments. This course will provide students with the skills and knowledge to arrange a store window, instore display, and floor layout. Students will learn how to display merchandise to the consumer regardless of their specific job title. CSU
Offered Fall semesters

FASH 51. Creating a Garment Business (3)
Lec-52.5, field trips P/NP available
Recommended Prep: FASH 35A; FASH 15A
Students learn the basics and essential steps needed to start a fashion business and clothing line. Fundamental components of a fashion business, functional business plans for a viable and sustainable fashion business, financing, planning, branding, marketing, knowing your customer, design process and manufacturing. CSU
Offered Spring semesters

FASH 53. Fashion Forecasting (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The theories and frameworks underlying forecasting in the textile and apparel industry. The factors involved in planning and presenting the forecast. Emphasis on using print, Internet, and broadcast information in competitive analysis. CSU
Offered Fall and Spring semesters

FASH 54A. Fashion Styling (3)
Lec-52.5, field trips P/NP available
This course explores the skills required for styling outfits, accessories, and props for photography, film and commercials, visual merchandising, fashion shows and digital media. Emphasis is on identifying the many styling methods used in promoting fashion throughout the industry. CSU
Offered Fall and Spring semesters

FASH 54B. Advanced Fashion Styling (3)
Lec-52.5, field trips P/NP available
Prereq: FASH 54A
This hands-on, field-based course teaches the skills required of various types of professional stylists. Students will be guided through the process of developing a professional styling portfolio which they can present to prospective clients. CSU
Offered Fall semesters

FASH 55. Icons of Contemporary Fashion (3)
Lec-52.5, field trips P/NP available
Students will learn about the fashion industry, the social use of clothing, and modern fashion history through the people, events, politics, and cultures that have effected change. CSU
Offered Fall semesters

FASH 56. Fashion Writing, Publicity, & Social Media (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Fashion writing for both print and social media platforms as it pertains to fashion journalism and public relations. Topics include how to write trend reports, press releases, runway critiques, evaluating fashion blogs, and creating a strong fashion presence on social media. CSU
Formerly "Fashion Writing & Publicity"
Offered Spring semesters

FASH 57. Fabric Glossary (1)
Lec-17.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Fabric Glossary is a comprehensive course designed for those whose career direction will require textile knowledge. Highlights include understanding of fabric's properties, characteristics, and garment-design potential. Learn about the most commonly worn textiles, how textiles affect the environment and working with fabric swatches. CSU
Offered Fall and Spring semesters

FASH 60. Fieldwork - Fashion Shows and Events (1)
Work-60-75 P/NP only
Prereq: Approval of the Fashion Department
Repeat: Repeated up to 16.00 Units
Work experience in fashion show production and events. Students will work backstage as dressers or volunteers for a variety of designers, stores and charity events. Provides practical experience in the retail environments. Emphasis will be placed on the importance of fashion promotions in the workplace. One unit of credit is earned for 60 hours unpaid work or 75 hours of paid work. CSU

FASH 61. Fashion Merchandising/Marketing Internship (2)
Work-120-150 P/NP available
Prereq: Approval of Fashion Department
Repeat: Repeated up to 16 units
Experience in the Fashion industry through merchandising, styling, buying, or marketing positions. Students will intern with local employers to gain meaningful work experience. Provides practical experience in the retail/wholesale environments. Emphasis will be placed on the role of fashion in the workplace. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU

FASH 62. Work Experience in Personal Styling (1-3)
Work-60-225 P/NP available
Repeat: Repeated up to 8.00 Units
Experience in the Fashion industry through personal styling, or image consulting positions. Students will intern with local employers to gain meaningful work experience. Provides practical experience in the retail/wholesale environments. Emphasis will be placed on the role of fashion in the workplace. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
Offered Summer semesters

FASH 63. Fashion Design & Production Internship (2)
Work-120-150 P/NP available
Prereq: Approval of Fashion Department
Repeat: Repeated up to 16.00 Units
Experience in the Fashion industry though product design and development. Students will intern with local employers to gain meaningful work experience. Provides practical experience in the design establishments. Emphasis will be placed on the product creation in the workplace. One unit of credit is earned for 60 hours of unpaid work or 75 hours of paid work. CSU

FASH 67A. Computerized Pattern Development: PAD (3)
Lec-52.5, field trips P/NP available
Prereq: FASH 26
Overview of the functions and capabilities of the PAD computerized pattern development system. Industry pattern development including drafting, modifying, and grading patterns. Digitizing and plotting patterns. CSU
Offered every other Spring semester

FASH 67B. Computerized Pattern Development: Gerber (3)
Lec-52.5, field trips P/NP available
Prereq: FASH 26
Overview of the functions and capabilities of the Gerber computerized pattern development system. Industry pattern development including drafting, modifying, and grading patterns. Digitizing and plotting patterns. CSU
Offered every other Spring semester

FASH 72. Drafting a Sloper (Moulage) (1)
Lec-12, Lab-20 P/NP available
Recommended Prep: FASH 15A
Students learn the classic techniques needed to measure a figure and draft a well-fitting moulage/sloper/basic pattern CSU
Offered Spring and Summer semesters

FASH 73. Sewing with Knit and Stretch Fabrics (1)
Lec-8.75, Lab-26.25 P/NP available
Recommended Prep: FASH 15A or basic sewing machine skills
Special sewing techniques for garments made from knitted fabrics, such as t-shirts, pants, and activewear. Pattern modifications for stretch knits. Students will construct garments while learning how to work with knitted fabrics, including ribbed finishes, elastic edgings, and special seam types. CSU

FASH 112. Digital Illustration for Fashion (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: FASH 35A
Recommended Prep: VMD 105 or FASH 36A or FASH 54A
This course covers techniques in Adobe Photoshop and Illustrator appropriate for fashion designers and merchandisers. CSU
Offered Spring semesters

Film*

* See Cinema.

Foreign Languages*

* See World Languages and Cultures.

French

Office: Art 202
Phone Number: (415) 239-3223
Web Site: *www.ccsf.edu/worl*

Announcement of Curricula

French Major (AA)

Program Information. The French program provides instruction in developing a student's ability to communicate in French, both written and oral, through the intermediate level and to gain a knowledge of francophone cultures throughout the world. The program is designed to meet transfer goals as well as personal development and career growth.

Degree Curriculum. The Degree Curriculum in French is a two-year course of study designed to build a strong language foundation as well as expose students to francophone cultural content and some literature. Students who complete the curriculum are better prepared to transfer to the CSU and UC systems as well as other universities with the intent of majoring or minoring in French.

Learning Outcomes

Upon completion of this program, students will be able to:

- Engage in conversation at the intermediate-high level in standard French.
- Summarize contemporary French non-fiction texts and simple French literary texts appropriate to an intermediate-high learner.
- Compose mid-length written texts in French for both personal expression and academic discourse or analysis, at the intermediate-high level.
- Express in-depth knowledge of the various Francophone cultures of the world.

Assuming students start this AA with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in French

Course	Units
Choose 15 units from the following	
FREN 2 Continuation of Elementary French	5.0
or FREN 2A Continuation of Elementary French	3.0
and FREN 2B Continuation of Elementary French	3.0
FREN 3A Intermediate French	3.0
FREN 3B Intermediate French	3.0
FREN 4 Cont. of Intermediate French	3.0
FREN 5 Advanced French: Conversation on French Literature and Culture	3.0
FREN 22 Grammar Review and Composition	3.0
FREN 23 French Phonetics	3.0
Choose 3 units from the following	
FREN 1 Elementary French	5.0
FREN 1A Elementary French	3.0
FREN 1B Elementary French	3.0
FREN 10B Continuation of Beginning Conversational French	3.0
FREN 10C Intermediate Conversational French	3.0
FREN 10D Continuation of Intermediate Conversational French	3.0
FREN 11A Advanced Conversational French	3.0
FREN 11B Advanced Conversational French	3.0
FREN 41 Culture and Civilization of France	3.0
FREN 42 Contemporary French Culture and Civilization	3.0
Total:	**18.0**

French Certificate

The Certificate of Achievement in French fulfills requirements for transfer to UC and CSU and shows the attainment of an intermediate level of competency in French.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret the main points of standard spoken and written French relating to everyday matters.
- Communicate in spoken French using a range of vocabulary, language functions, and sentence structures.
- Write simple connected text using a range of intermediate French vocabulary, grammar, and sentence structures.
- Compare aspects of French and Francophone culture and society.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in French

Course	Units
Required	
FREN 3 Intermediate French	5.0
or FREN 3A Intermediate French	3.0
and FREN 3B Intermediate French	3.0
Choose at least 11 units from the following	
FREN 1 Elementary French	5.0
or FREN 1A Elementary French	3.0
and FREN 1B Elementary French	3.0
FREN 2 Continuation of Elementary French	5.0
or FREN 2A Continuation of Elementary French	3.0
and FREN 2B Continuation of Elementary French	3.0
FREN 4 Cont. of Intermediate French	3.0
FREN 5 Advanced French: Conversation on French Literature and Culture	3.0
FREN 22 Grammar Review and Composition	3.0
FREN 23 French Phonetics	3.0
FREN 10A Beginning Conversational French	3.0
FREN 10B Continuation of Beginning Conversational French	3.0
FREN 10C Intermediate Conversational French	3.0
FREN 10D Continuation of Intermediate Conversational French	3.0
FREN 11A Advanced Conversational French	3.0
FREN 11B Advanced Conversational French	3.0
FREN 41 Culture and Civilization of France	3.0
FREN 42 Contemporary French Culture and Civilization	3.0
Total:	**16.0 – 17.0**

Announcement of Courses

Students of beginning French are directed to consider French courses numbered 1, 1A, 10A.

A placement test in French is available for guidance in selecting the appropriate course. For information, call 239-3223. Total beginners in French should select from French 1, 1A or 10A.

Credit, Degree Applicable Courses:

FREN 1. Elementary French (5)
Lec-87.5 P/NP available
Recommended Prep: (Readiness for college-level English or ESL 188) or (any City College or university foreign language course)
This introductory course will develop students' four basic skills of listening, speaking, reading and writing in real-world situations to a novice mid level. The course also introduces some cultural aspects of France and the francophone world. UC/CSU

FREN 1A. Elementary French (3)
Lec-52.5 P/NP available
Recommended Prep: (Readiness for college-level English or ESL 188) or (any City College or university foreign language course)
This introductory course will develop students' four basic skills of listening, speaking, reading and writing in real-world situations to a novice low level. The course also introduces some cultural aspects of France and the francophone world. UC/CSU
FREN 1A + 1B = FREN 1

FREN 1B. Elementary French (3)
Lec-52.5 P/NP available
Prereq: FREN 1A or demonstration of FREN 1A exit skills.
This introductory course will develop students' four basic skills of listening, speaking, reading and writing in real-world situations to a novice mid level. The course also introduces some cultural aspects of France and the francophone world. UC/CSU
FREN 1A + 1B = FREN 1

FREN 2. Continuation of Elementary French (5)
Lec-87.5 P/NP available
Prereq: FREN 1 or FREN 1B or demonstration of exit skills
Second semester course with emphasis on vocabulary and grammar appropriate to the intermediate low level. Continued practice in speaking and understanding French. Continued practice in writing and reading French. Further introduction to Francophone cultures. UC/CSU

FREN 2A. Continuation of Elementary French (3)
Lec-52.5 P/NP available
Prereq: FREN 1 or FREN 1B or demonstration of exit skills
Second semester course with emphasis on vocabulary and grammar appropriate to the novice high level. Continued practice in speaking and understanding French. Continued practice in writing and reading French. Further introduction to Francophone cultures. UC/CSU
FREN 2A + 2B = FREN 2

FREN 2B. Continuation of Elementary French (3)
Lec-52.5 P/NP available
Prereq: FREN 2A or demonstration of exit skills
Second semester course with emphasis on vocabulary and grammar appropriate to the intermediate low level. Continued practice in speaking and understanding French. Continued practice in writing and reading French. Further introduction to Francophone cultures. UC/CSU
FREN 2A + 2B = FREN 2

FREN 3. Intermediate French (5)
Lec-87.5 P/NP available
Prereq: FREN 2 or 2B or demonstration of FREN 2/2B exit skills.
Reading of intermediate-level French prose, associated grammar review and essay composition, constant practice in the use and comprehension of the spoken language. Study of culture through film and excerpts of various texts (articles, novels or informational texts specifically written for our textbook). UC/CSU
FREN 3=FREN 3A+3B

FREN 3A. Intermediate French (3)
Lec-52.5 P/NP available
Prereq: FREN 2 or FREN 2B or demonstration of exit skills
Intermediate French 3A is a continuation of FREN 2/2B. It includes in-depth review of French grammar and expansion of the five language skills (writing, reading, listening, speaking, and culture). It is designed to help students improve their communicative skills. The course is conducted in French and covers various interrogative structures, a review of the past tenses and determinatives. It will also provide the vocabulary necessary to discuss education, immigration and exile. UC/CSU
FREN 3A and FREN 3B are non-sequential and may be taken in either order. FREN 3A + 3B = FREN 3

FREN 3B. Intermediate French (3)
Lec-52.5 P/NP available
Prereq: FREN 2 or FREN 2B or demonstration of exit skills
Intermediate French 3B is a continuation of FREN2/2B. It includes in-depth review of French grammar and expansion of the five language skills (writing, reading, listening, speaking, and culture). It is designed to help students improve their communicative skills. The course is conducted in French and covers relative clauses, object pronouns and the conditional mood as well as the vocabulary necessary to talk about the workplace and discuss personal relationships. UC/CSU
FREN 3A and FREN 3B are non-sequential and may be taken in either order. FREN 3A + 3B = FREN 3

FREN 4. Cont. of Intermediate French (3)
Lec-52.5 P/NP available
Prereq: FREN 2 or 2B or demonstration of exit skills
Intermediate French 4 is a continuation of FREN2/2B. It includes in-depth review of French grammar and expansion of the five language skills (writing, reading, listening, speaking, and culture). It is designed to help students improve their communicative skills at an advanced intermediate level. The course is conducted in French and covers the use of the subjunctive mood to express opinions and the vocabulary needed to discuss social classes among other themes. UC/CSU
Offered on occasion

FREN 5. Advanced French: Conversation on French Literature and Culture (3)
Lec-52.5, field trips P/NP available
Prereq: FREN 3 or FREN 3B or demonstration of FREN 3 or FREN 3B exit skills
Readings in and discussion of French literature and culture. Extensive oral interaction and composition to build analytical vocabulary, improve sustained discussion, and express ideas in a more natural manner. UC/CSU
Offered on occasion

FREN 10A. Beginning Conversational French (3)
Lec-52.5 P/NP available
This is a beginner's course and the first of a series of five conversational courses. This course offers extensive oral training in French and an emphasis on practical vocabulary and idiom rather than formal grammar and literature. It is open to all beginning students; however, it is not advised for native speakers of French. It is recommended for students already enrolled in FREN 1 or FREN 1A wishing to get more oral practice. CSU
Recommended all beginning students and for students enrolled in FREN 1 or FREN 1A. Not Recommended for native speakers of French.
Offered on occasion

FREN 10B. Continuation of Beginning Conversational French (3)
Lec-52.5 P/NP available
Recommended Prep: FREN 10A
This is the second of a series of 5 conversational courses. This course offers extensive oral training in French and an emphasis on practical vocabulary and idiom rather than formal grammar and literature. It is open to all beginning students; however, it is not advised for native speakers of French. It is recommended for students already enrolled in FREN 1 or FREN 1B wishing to get more oral practice. CSU
Recommended for students enrolled in FREN 1 or FREN 1A. Not recommended for native speakers of French.
Offered on occasion

FREN 10C. Intermediate Conversational French (3)
Lec-52.5 P/NP available
Recommended Prep: FREN 10B or demonstration of FREN 10B exit skills
Extensive oral training in French. Designed for students who wish to continue acquiring more advanced skills of the spoken language with a minimum of formal grammar. CSU
Recommended for students enrolled in FREN 2 or FREN 2A. Not recommended for native speakers of French.
Offered on occasion

FREN 10D. Continuation of Intermediate Conversational French (3)
Lec-52.5 P/NP available
Recommended Prep: FREN 10C or demonstration of exit skills
Continuation of extensive oral training in French for students who wish to continue acquiring more advanced skills of the spoken language with a minimum of formal grammar. CSU
Recommended for students enrolled in FREN 2B or 3A or 3B. Not recommended for native speakers of French.
Offered on occasion

FREN 11A. Advanced Conversational French (3)
Lec-52.5 P/NP available
Recommended Prep: FREN 10E or FREN 3 or (FREN 3A and FREN 3B) or demonstration of exit skills
Students will strengthen their grammatical acquisitions, practice their listening and reading skills and attain speaking proficiency while learning about Francophone cinema. They will exchange viewpoints on the various movies seen in class and discuss social and cultural values of the country of origin of each movie. UC/CSU
Non-sequential
Offered on occasion

FREN 11B. Advanced Conversational French (3)
Lec-52.5 P/NP available
Recommended Prep: FREN 10E or FREN 3 or (FREN 3A and FREN 3B) or demonstration of exit skills
Students will consolidate their grammatical acquisitions, practice their listening and reading skills and attain speaking proficiency while learning about Francophone cinema. They will exchange viewpoints on the various movies seen in class and discuss social and cultural values of the country of origin of each movie. UC/CSU
Non-sequential
Offered on occasion

FREN 22. Grammar Review and Composition (3)
Lec-52.5 P/NP available
Prereq: FREN 4 or demonstration of FREN 4 exit skills
Advanced review of grammar and composition taught entirely in

French with attention to style, vocabulary development, and more advanced grammatical structures. UC/CSU
May not be offered every semester.
Offered on occasion

FREN 23. French Phonetics (3)
Lec-52.5 P/NP available
Prereq: FREN 2 or FREN 2B or FREN 10C or demonstration of exit skills of French 2, 2B, or 10C
Introduction to the French phonological system with attention given to spoken French and how it corresponds to written French. Emphasis on improving listening comprehension and more closely approximating native-speaker pronunciation, rather than on grammatical structures. UC/CSU
May not be offered every semester.
Offered on occasion

FREN 41. Culture and Civilization of France (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The geography, history, social institutions, literature, art, architecture and music of France from their beginnings to the First World War. No knowledge of French required UC/CSU
No knowledge of French required. May not be offered every semester.
Offered on occasion

FREN 42. Contemporary French Culture and Civilization (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Aspects of French culture and civilization from the entre-deux-guerres period to the present. Insights into the historical and traditional forces which have contributed to the current and emerging conditions of France. UC/CSU
Offered on occasion

Gay, Lesbian and Bisexual Studies*

* See Lesbian, Gay, Bisexual, and Transgender Studies

Geography*

* See Earth Sciences.

Geology*

* See Earth Sciences.

German

Office: Art 202
Phone Number: (415) 239-3223
Web Site: *www.ccsf.edu/worl*

Announcement of Courses

Credit, Degree Applicable Courses:

A placement test in German is available for guidance in selecting the appropriate course. For information, call 239-3223.

GERM 1A. Elementary German (3)
Lec-52.5 P/NP available
Recommended Prep: ENGL 88 or ESL 188 or any City College or university foreign language course or readiness for college-level English
Beginning course in grammar, composition, and reading. Practice in speaking and understanding German. UC/CSU general education transferable. UC/CSU
GERM 1A + 1B = GERM 1

GERM 1B. Elementary German (3)
Lec-52.5 P/NP available
Prereq: GERM 1A or demonstration of GERM 1A exit skills.
Beginning course in grammar, composition, and reading. Practice in speaking and understanding German. UC/CSU general education transferable. UC/CSU
GERM 1A + 1B = GERM 1

Graphic Communication*

* See Visual Media Design

Health Care Technology

Office: John Adams
Phone Number: (415) 561-1967
Web Site: *www.ccsf.edu/Departments/Health_PE/health_care-tech/*

Announcement of Curricula

General Information

The Health Care Technology Department offers a variety of vocational programs to prepare students for employment in the healthcare profession. Please see individual program areas for specifics regarding registration, certification, licensure and/or degree status.

Programs within the Health Care Technology Department prepare individuals for employment in-hospital, pre-hospital, and outpatient patient or medical clinic careers. Students successfully completing programs shall attain the knowledge and competency based skills required to pass certification, registry or licensure examinations.

Paramedic Major (AS)

The paramedic program provides students with the knowledge and skills necessary to provide advanced emergency medical care in the prehospital setting. The licensed paramedic is the highest level provider on the prehospital care team and may find employment with a fire department, private ambulance service, third service, hospital, or other operation. The paramedic program includes classroom didactic, practical laboratory, simulation-based education, in-hospital clinical and a capstone prehospital field internship that qualifies the student for the National Registry of Emergency Medical Technicians (NREMT) paramedic licensure Examination upon successful completion of the program.

The goal of the City College of San Francisco paramedic program is to prepare competent entry-level paramedics in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician (AEMT), and/or Emergency Medical Technician (EMT), and/or Emergency Medical Responder (EMR) levels.

Accreditation. The paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 9355-113th St. N., #7709 Seminole, FL 33775, (727) 210-2350, ***www.caahep.org***, under the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Profession (CoAEMSP), Program #600218. For more information about these agencies, see the "Overview of the College" section of this Catalog.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply advanced-level emergency medical knowledge and standards within the paramedic scope of practice to the care of patients in a diverse community.
- Apply safe advanced-level technical skills in emergency medical situations within the paramedic scope of practice.
- Behave professionally, skillfully, and in a manner consistent with employer and community expectations of an Emergency Medical Services (EMS) provider.
- Support patient advocacy and interprofessional collaboration in prehospital care to address health disparities in a diverse community.

The prerequisite for the paramedic program is current EMT certification pursuant to CCR. DIV.9 Title 22. It is recommended that students have three to six months field experience as an EMT prior to submitting an application to the paramedic program.

Enrollment is open to qualified applicants who fulfill the following admission requirements:

1. Hold a current California EMT certification
2. Hold a current healthcare provider level CPR card
3. Complete application to the program within annual application period in May

Multiple criteria selection is used to select a cohort of 25-30 candidates to start each Fall semester.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Paramedic

Course	Units
Required	
EMT 104 Advanced Skills for EMS Providers	4.0
BIO 106 Introduction to Human Anatomy and Physiology	4.0
Fall semester	
EMTP 121 Introduction to EMS	3.0
EMTP 122 Pharmacology in EMS	3.0
EMTP 123 Trauma Emergencies	3.0
EMTP 124 Trauma Certification	2.0
EMTP 125 Cardiorespiratory Emergencies	4.0
Spring semester	
EMTP 126 Neuroendocrine Emergencies	3.0
EMTP 127 Medical Emergencies	3.0
EMTP 128 OB/GYN & Pedi Emergencies	4.0
EMTP 129 Special Populations, EMS Ops	4.0
Summer/Fall semester	
EMTP 130A Paramedic Clinical Education	7.0
EMTP 130B Paramedic Field Internship	8.0
Choose one course from the following	
HLTH 30 Drugs, Health, and Society	3.0
HLTH 54 Introduction to Public Health	3.0
HLTH 221 Health and Social Justice	3.0
SOC 1 Introduction to Sociology	3.0
Total:	**55.0**

Cardiovascular Technician/Echocardiography Major (AS)

The Cardiovascular Technician/Echocardiography program prepares students to hold positions as cardiac sonographers, echocardiography technicians, cardiovascular technicians in a medical center, cardiology office, or health center. Graduates are eligible to sit for the national registry examinations: American Registry of Diagnostic Medical Sonography (ARDMS) or Cardiovascular Credentialing International (CCI).

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the clinical knowledge to fulfill the role of an entry-level cardiac sonographer.
- Perform the technical skills necessary to fulfill the role of cardiac sonographer.
- Communicate effectively with patients and members of the healthcare team according to employer expectations and standards for an entry-level position in cardiac ultrasound.
- Apply the knowledge and skills required of various national registry examinations for certification.

Students must have completed a human anatomy or anatomy and physiology course.

Program recommended preparation. ENGL 88 or ESL 186 or placement in ESL 188 or readiness for college-level English.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is 4 semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Cardiovascular Technician/ Echocardiography

Course	Units
Fall Semester	
ECHO 101 Echocardiography	7.0
CVT 101 Cardiovascular Technician	3.0
CVT 110 Cardiovascular Skills	7.0
Spring Semester	
ECHO 201 Advanced Echocardiography Technician	7.0
CVT 201 Advanced Cardiovascular Technician	4.0
CVT 210A Introductory Echocardiography Professional Practice	5.0
CVT 210B Introductory Echocardiography Professional Practice Work Experience	2.0
Fall Semester	
ECHO 301 Advanced Cardiac Abnormalities	5.0
CVT 301 Physics of Cardiac Ultrasound	3.0

CVT 310A Intermediate Echocardiography Professional Practice 4.0
CVT 310B Intermediate Echocardiography Professional Practice Work Experience 6.5

Spring Semester
ECHO 401 Advanced Echocardiographic Studies 6.0
CVT 410A Echocardiography Professional Practice 3.0
CVT 410B Echocardiography Professional Experience 6.5

Total: 69.0

Electrocardiography Technician Major (AS)

The Electrocardiography program prepares students to operate various ECG equipment and devices as well as obtain and process different types of bloodwork. The students would be able to work as an ECG and a Phlebotomy Technician in physicians' offices, non-invasive cardiac diagnostic departments in hospitals, and medical clinics or other medical facilities. Graduates are eligible to sit for the national registry examination: Cardiovascular Credentialing International (CCI). The certificate in Phlebotomy provides students with the theoretical knowledge and skills competencies necessary to meet California regulatory requirements for phlebotomy technicians and prepares students to take the CPT-1 examination.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply clinical knowledge necessary to fulfill the role of an entry-level ECG Technician and Phlebotomy Technician.
- Perform clinical tasks on ECG machines, Holter monitor systems, and exercise stress test equipment.
- Communicate and interact with patients and members of the healthcare team according to employer expectations and standards of the healthcare profession.
- Compare the various national registry examinations for Electrocardiography and Phlebotomy Technician.

NOTE: While students have some choice in how to fulfill their General Education and graduation requirements, the Electrocardiography Technician Program recommends the following course work be completed in the first year: ENGL 1A or ENGL 1A+1AS and MATH 60. It is also suggested that ASAM 20 or LALS 1 or AFAM 60 or HIST 12B are taken prior to degree completion.

The minimum time for completion of this program is 4 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Major in Electrocardiography Technician

Course . . . . . Units

First Semester
ECGT 101 ECG Technician I 4.0
HIT 50A Medical Terminology I 3.0
BIO 106 Introduction to Human Anatomy and Physiology 4.0
EMT 14 First Aid and Cardiopulmonary Resuscitation 3.0

Second Semester
ECGT 102 ECG Technician II 4.0
HCT 67 Computer Applications in the Health Care Setting 2.0
HIT 50B Medical Terminology II 2.0
HIT 57 Disease Process 3.0
MED 62 Communication and Professionalism in Health Care 2.0

Third Semester
ECGT 103A Electrocardiography Professional Experience 1.0
ECGT 103B Electrocardiography Professional Practice 3.0
HIT 75 Organization and Management in Health 3.0
HLTH 10 Health and Aging 3.0
MED 55 The Electronic Health Record 3.0

Fourth Semester
PSYC 1 General Psychology 3.0
HCT 104 Phlebotomy Technician 5.5

Total: 48.5

CVT/Echocardiography Technician Certificate

Students who complete the CVT/Echocardiography Technician training satisfactorily are prepared to hold positions as cardiac sonographers, echocardiography technicians, cardiovascular technicians in a medical center, and cardiology officers in a health center. Graduates are eligible to sit for the national registry examinations: American Registry of Diagnostic Medical Sonography (ARDMS) or Cardiovascular Credentialing International (CCI).

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply current standards relative to the role of cardiac sonographer.
- Apply clinical knowledge and technical skills necessary to fulfill the role of an entry-level cardiac sonographer.
- Exhibit professionalism according to employer expectations for an entry-level position in cardiac ultrasound.
- Qualify for the national registry examinations in cardiac ultrasound: American Registry of Diagnostic Medical Sonography (ARDMS) or Cardiovascular Credentialing International (CCI).

Students must complete BIO 106 and be eligible for college-level English prior to beginning this program.

The minimum time for completion of this certificate is 4 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in CVT/Echocardiography Technician

Course . . . . . Units

Fall Semester
CVT 101 Cardiovascular Technician 3.0
CVT 110 Cardiovascular Skills 7.0
ECHO 101 Echocardiography 7.0

Spring Semester
CVT 201 Advanced Cardiovascular Technician 4.0
CVT 210A Introductory Echocardiography Professional Practice 5.0
ECHO 201 Advanced Echocardiography Technician 7.0

Summer Session
CVT 210B Introductory Echocardiography Professional Practice Work Experience 2.0

Fall Semester
CVT 301 Physics of Cardiac Ultrasound 3.0
CVT 310A Intermediate Echocardiography Professional Practice 4.0
ECHO 301 Advanced Cardiac Abnormalities 5.0

Spring Semester
CVT 310B Intermediate Echocardiography Professional Practice Work Experience 6.5
CVT 410A Echocardiography Professional Practice 3.0
ECHO 401 Advanced Echocardiographic Studies 6.0

Summer Session
CVT 410B Echocardiography Professional Experience 6.5

Total: 69.0

ECG Technician Certificate

This program prepares students to operate ECG equipment and work as an ECG Technician in a cardiology office, non-invasive cardiac diagnostic department in a hospital, medical clinic or other medical facilities. Graduates are eligible to take the national registry examination: Cardiovascular Credentialing International (CCI).

Learning Outcomes

Upon completion of this program, students will be able to:

- Evaluate and apply information relative to the role of an ECG Technician.
- Apply clinical knowledge necessary to fulfill the role of an entry-level ECG Technician.
- Perform clinical tasks on ECG machines, Holter monitor systems, exercise stress test equipment and perform CPR as needed.
- Interact with and orient a diverse patient population and members of the healthcare team according to employer expectations and standards of the healthcare profession.
- Prepare for the various national registry examinations for Electrocardiography Technician certification.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in ECG Technician

Course . . . . . Units
Required
ECGT 101 ECG Technician I 4.0
ECGT 102 ECG Technician II 4.0
EMT 12 Basic Life Support for Healthcare Providers 0.5

Total: 8.5

Emergency Department Technician Certificate

This program prepares students to work with patients and members of a healthcare team as an emergency department technician. Courses provide theoretical content, technical training, and preparation to work with diverse and vulnerable patient populations.

Learning Outcomes

Upon completion of this program, students will be able to:

- Evaluate the needs of diverse patients in an emergency department setting as a member of the healthcare team.
- Apply safe clinical skills to the care of diverse patients within the scope of the emergency department technician.
- Evaluate and implement the role of the healthcare professional in improving and advocating for health equity.

Program prerequisite. Current American Heart Association Basic Life Support CPR card.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Emergency Department Technician

Course . . . . . Units
Required
EMT 100 Emergency Medical Technician 8.0
HCT 104 Phlebotomy Technician 5.5
ECGT 101 ECG Technician I 4.0

Total: 17.5

Emergency Medical Technician Certificate

The primary goal of the City College of San Francisco Emergency Medical Technician (EMT) Program is to prepare students to become competent entry-level patient care providers in emergency medical services. In this rapidly expanding field, EMT's most often work in the pre-hospital setting for ambulance agencies, park service, or fire departments. Many students use their EMT training as an introduction to a variety of other medical fields, such as registered nurse, ER Technician, respiratory therapist, physician's assistant, or physician.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply assessment and treatment strategies to emergency care of ill and injured patients within the scope of practice of an Emergency Medical Technician.
- Integrate technical skills of the Emergency Medical Technician into complex patient situations as a basic level responder in a diverse community.
- Display professionalism, responsibility, and patient advocacy within a culturally diverse community as a member of the Emergency Medical Services healthcare team.

This program is in compliance with requirements set forth in the California Code of Regulation, Title 22, Division 9, Chapter 2. All aspects of the EMT Training Program meet the NHTSA National EMS Education Standards. Students must maintain a grade of "C" or higher to receive a course completion record. Prior to enrollment in the EMT program, students must have a current certification in cardiopulmonary resuscitation (CPR) at the healthcare provider level such as the American Heart Association Basic Life Support (BLS) provider certification, and must attend a mandatory information session about the program.

The minimum completion time is 1 semester and must include all required elements of the State-approved curriculum.

Courses Required for the Certificate of Achievement in Emergency Medical Technician

Course	Units
Required courses	
EMT 100 Emergency Medical Technician	8.0
EMT 99 National Registry EMT Exam Preparation Course	1.0
Total:	**9.0**

Paramedic Certificate

The goal of the City College of San Francisco paramedic program is to prepare competent entry-level paramedics in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician (AEMT), and/or Emergency Medical Technician (EMT), and/or Emergency Medical Responder (EMR) levels.

Credit Toward Graduation. The credit students earn in obtaining the Certificate of Achievement in Paramedic may also be applied toward satisfaction of the requirements for graduation.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply advanced-level emergency medical knowledge and standards within the paramedic scope of practice to the care of patients in a diverse community.
- Apply safe advanced-level technical skills in emergency medical situations within the paramedic scope of practice.
- Behave professionally, skillfully and in a manner consistent with employer and community expectations of an Emergency Medical Services (EMS) provider.

Program Prerequisite and Advisory. The prerequisite is current certification as an Emergency Medical Technician (EMT) per CCR, DIV 9, Title 22. It is recommended that students have three to six months field experience as an EMT prior to submitting an application to the Paramedic Certificate program.

Enrollment is open to qualified applicants who fulfill the following admission requirements:

1. Hold a current California EMT certification
2. Hold a current healthcare provider level CPR card
3. Complete application to the program within annual application period in May

Requirements for the Certificate of Achievement. Students may obtain the Certificate of Achievement in Paramedic by completing the required sequence of courses.

Multiple criteria selection is used to select a cohort of 25-30 candidates to start each Fall semester. The minimum time for completion of this certificate is 3 semesters plus one summer term. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Paramedic

Course	Units
Prerequisite courses:	
EMT 104 Advanced Skills for EMS Providers	4.0
BIO 106 Introduction to Human Anatomy and Physiology	4.0
Fall semester:	
EMTP 121 Introduction to EMS	3.0
EMTP 122 Pharmacology in EMS	3.0
EMTP 123 Trauma Emergencies	3.0
EMTP 124 Trauma Certification	2.0
EMTP 125 Cardiorespiratory Emergencies	4.0
Spring semester:	
EMTP 126 Neuroendocrine Emergencies	3.0
EMTP 127 Medical Emergencies	3.0
EMTP 128 OB/GYN & Pedi Emergencies	4.0
EMTP 129 Special Populations, EMS Ops	4.0
Summer/Fall semester:	
EMTP 130A Paramedic Clinical Education	7.0
EMTP 130B Paramedic Field Internship	8.0
Total:	**52.0**

Health Information Technology

General Information

The Health Information Technology (HIT) Program provides competency-based instruction and professional practice experiences to assist students in developing the knowledge and skills necessary to process analyze, disseminate and maintain health care information. A career as a health information professional offers a unique opportunity to be at the forefront of the healthcare industry where healthcare meets the cutting edge of technology and a member of the healthcare team. Historically, medical records have been a paper-based or in hybrid format. The demand to advance the implementation of electronic health records (EHRs) requires training of heath information professionals to enter the workforce.

Accreditation. The Health Information Technology Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). For more information about this agency, see the "Overview of the College" section of this Catalog.

Degree Curricula

Upon successful completion of the two-year curriculum in Health Information Technology, graduates are trained to perform specialized skills in electronic (EHR) computer software, security and privacy practices, coding, and collecting, organizing, and analyzing electronic data to improve healthcare information as more healthcare providers and hospitals adopt EHR systems.

As one of the fastest growing occupations, possible career opportunities for practitioners in health information management include data analysts, inpatient and outpatient coding specialists, privacy and security officers, release of information and recovery audit coordinators, clinical data improvement specialists, cancer registrars, and health information managers.

Employment. The United States Department of Labor, Bureau of Labor Statistics project medical record and health information technician's employment is expected to increase by 21percent from 2010 to 2020, faster than the average for all occupations. As the population ages, the demand for health services is expected to increase. ***http://www.bls.gov/OCO.***

Health information professionals are employed in a variety of work settings including hospitals, ambulatory care, physician offices, managed care facilities, long-term care and rehabilitation, behavioral health, chemical dependency and correctional facilities, home health and hospice, cancer centers, state and federal government agencies, insurance

companies, research and policy agencies, accounting and legal firms, coding compliance and data quality organizations, HIM service providers and vendors, consulting firms, academic institutions, pharmaceutical companies, health information exchanges, and other venues.

Employment opportunities for trained health information technicians continue to increase with emphasis on data quality and integrity, management of electronic health information, revenue cycle management and compliance around payment are prevalent both for ambulatory and inpatient care. This is one of the few health occupations in which there is little or no direct contact with patients.

Admission. Enrollment is open to all interested students who fulfill the following admission requirements:

1. Eligible for credit classes (See admission requirements.)
2. Strongly recommended for success in the HIT program: ENGL 88 or ESL 186 or placement in ESL 188 or readiness for college-level English.
3. Attend a HIT orientation session to ask questions about requirements and structure of the program.
4. Certain programs have prerequisites that must be met prior to enrollment in individual classes.

Credit by Examination. Refer to College Catalog

Associate in Science Degree in Health Information Technology. The curriculum is designed so that students may satisfy the requirements for graduation from the College. Students who satisfy these requirements and complete the Health Information Technology Curriculum with a "C" or better in every course receive the Associate in Science Degree in Health Information Technology.

Basis for Disqualification. Students who do not earn a "C" or better in a Health Information Technology program course will have one opportunity to repeat the course to improve their grade. Students who do not earn a "C" or better on the second try will be disqualified from the program. Students may also be disqualified other reasons consistent with College policy.

National Certification Examination Registered Health Information Technician (RHIT). Successful graduates with an Associate in Science Degree in Health Information Technology are eligible to take the national certification examination offered by the American Health Information Association to earn the Registered Health Information Technician (RHIT) credential. AHIMA, located at 233 N. Michigan Avenue, 21st floor, Chicago, IL 60601-5800: Tel: (312) 233-1090; ***http://www.ahima.org/certification***

Students holding an associate's degree, baccalaureate degree or higher in a disciple from an accredited institution of post-secondary education must petition for the Associate in Science Degree in Health Information Technology. A previous degree does not automatically meet General Education Requirements. (See current CCSF Catalog for concise lists and descriptions of General Education Requirements Areas A-H)

Course of Study. Each option, in addition to an emphasis in the major field includes typical course work in computer applications, medical terminology, anatomy and physiology and disease process, data analysis, legal aspects, clinical classification and coding systems, health care reimbursement methods, statistics and data reporting, health information systems, quality assurance and improvement methods and personnel management.

Professional Practice Experience (PPE) refer to supervised rotations in the third and fourth semesters gives students experience in health information management departments in various health care organizations. Each CAHIIM-accredited HIM program must have at least one PPE that helps students assimilate theory with practical application in order to work toward achievement of AHIMA entry-level competencies in a real-world environment.

Health Information Technology Major (AS)

The Health Information Technology (HIT) program provides instruction and professional practice experience in the management and quality of health data relating to paper-based, electronic, and hybrid medical records. Health information professionals are responsible for maintaining components of health information systems consistent with the medical, administrative, ethical, legal, regulatory, and accreditation requirements of a health care delivery system. This program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education. Students who complete the program are eligible to take the Registered Health Information Technician (RHIT) exam.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the knowledge and record management skills necessary for HIM entry-level employment as a health information professional in various health care settings.
- Apply the knowledge and computer skills necessary for HIM entry-level employment as a health information professional in various health care settings.
- Demonstrate the behavioral, interpersonal, ethical, and professional skills necessary for HIM employment as a health information professional in various health care settings.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is 6 semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Health Information Technology

Course . . . . . Units

First semester: choose one of the following anatomy and physiology options:

OPTION 1:

BIO 106 Introduction to Human Anatomy and Physiology 4.0

OPTION 2:

BIO 108 General Human Anatomy 4.0

AND one of the following Physiology courses:

BIO 111 Human Physiology 5.0

BIO 112 Introduction to Human Physiology 4.0

First semester required courses:

HCT 61 Introduction to Health Care 2.0

HIT 50A Medical Terminology I 3.0

HCT 67 Computer Applications in the Health Care Setting 2.0

Second semester required courses:

HIT 50B Medical Terminology II 2.0
HIT 63 Health Information Systems. 3.0
HIT 65 Organization of Health Data 3.0
HIT 73A ICD-10-CM Coding 3.0
HIT 57 Disease Process 3.0

Third semester required courses:

HIT 72 Legal Aspects of HIM 3.0
HIT 75 Organization and Management in Health. 3.0
HIT 73B ICD-10-PCS Coding 3.0

Fourth semester required courses:

HIT 76 CPT Coding 3.0
HIT 77B Professional Practice II. 2.0
HIT 79 Healthcare Quality and Reimbursement 4.0
HIT 77A Professional Practice I 4.0

Total: . . . . . 47.0 – 52.0

Health Information Clerk I Certificate

This certificate program prepares students for entry-level positions in health information management departments. Opportunities for employment include basic record management, reception, admitting department functions, scanning of documents, filing and retrieval of records, filing and sorting loose documents, purging of records, storage and retention activities, data entry, processing admissions and discharges, and assembly of medical documents in a sequential order.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply record management skills and knowledge necessary for HIM entry-level employment as a health information professional in various health care settings.
- Perform computer applications necessary for HIM entry-level employment as a health information professional.
- Apply the behavioral, communication, ethical, and professional skills necessary for HIM employment as a health information professional in various health care settings.

Note--Anatomy and Physiology may also be taken as distinct courses. ESL 188 can also satisfy this certificate's writing/communication component. Please contact the department.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Health Information Clerk I

Course . . . . . Units
Required
HCT 61 Introduction to Health Care 2.0
HCT 67 Computer Applications in the Health Care Setting 2.0
HIT 50A Medical Terminology I 3.0
BIO 106 Introduction to Human Anatomy and Physiology 4.0

Choose one course from the following

CMST 6 Workplace Communication 3.0
ENGL 1A College Reading and Composition 4.0

Total: . . . . . 14.0 – 15.0

Health Information Clerk II Certificate

This certificate program prepares students for technical positions in health information departments. Employment opportunities include working in a hybrid and electronic environment, analyzing health records for deficiencies according to established standards, maintaining and using a variety of indices and storage retrieval systems, managing the usage and release of health information, collecting and abstracting health data for statistical purposes, scanning of documents and performing quality audits on all documents, assignment of codes according to specific classification systems, and use of official coding guidelines for reimbursement, billing and reporting purposes.

Learning Outcomes

Upon completion of this program, students will be able to:

- Organize, analyze, compile, and abstract data from a paper based or electronic medical record.
- Apply the knowledge and technical skills necessary for Health Information Management (HIM) entry-level employment as a health information professional in various health care settings.
- Perform computer applications necessary for HIM entry-level employment as a health information professional in various health care settings.
- Exhibit the behavioral, interpersonal, ethical and professional skills necessary for HIM employment as a health information professional in various health care settings.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Health Information Clerk II

Course . . . . . Units
First semester: required
BIO 106 Introduction to Human Anatomy and Physiology 4.0
HCT 61 Introduction to Health Care 2.0
HCT 67 Computer Applications in the Health Care Setting 2.0
HIT 50A Medical Terminology I 3.0

Second semester: required

HIT 50B Medical Terminology II 2.0
HIT 63 Health Information Systems. 3.0
HIT 65 Organization of Health Data 3.0
HIT 72 Legal Aspects of HIM 3.0
HIT 73A ICD-10-CM Coding 3.0
HIT 77A Professional Practice I 4.0
HIT 77B Professional Practice II. 2.0

Total: 31.0

Health Information Coding Specialist Certificate

This certificate program prepares students to assign diagnostic and procedural codes supported by medical documentation in accordance with official coding and reporting guidelines and compliance regulations. Students choose reportable codes to use on exercises, case scenarios, and actual patient records with basic to moderate and advanced clinical complexity. Students who complete the program are eligible to take the Certified Professional Coder (CPC)

exam sponsored by the American Academy of Professional Coders (AAPC).

Learning Outcomes

Upon completion of this program, students will be able to:

- Assign diagnosis and procedure codes using the International Classification of Diseases, 10th Revision, Clinical Modification (ICD-10-CM) and the International Classification of Diseases, 10th Revision, Procedure Coding System (ICD-10-PCS) official coding guidelines for inpatient and outpatient records.
- Assign procedure and service codes using Current Procedural Terminology (CPT).
- Use and maintain electronic applications and work processes to support clinical classifications and coding.
- Demonstrate professional and behavior skills and adhere to the necessary ethical standards of coding for HIM employment as a health information coder.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Health Information Coding Specialist

Course	Units
First semester: choose one of the following anatomy and physiology options:	
OPTION 1:	
BIO 106 Introduction to Human Anatomy and Physiology	4.0
OPTION 2:	
BIO 108 General Human Anatomy	4.0
AND one of the following Physiology courses:	
BIO 111 Human Physiology	5.0
BIO 112 Introduction to Human Physiology	4.0
First semester required courses:	
HCT 61 Introduction to Health Care	2.0
HIT 50A Medical Terminology I	3.0
HCT 67 Computer Applications in the Health Care Setting	2.0
Second semester required courses:	
HIT 50B Medical Terminology II	2.0
HIT 57 Disease Process	3.0
HIT 63 Health Information Systems	3.0
HIT 65 Organization of Health Data	3.0
HIT 73A ICD-10-CM Coding	3.0
Third semester required courses:	
HIT 73B ICD-10-PCS Coding	3.0
HIT 76 CPT Coding	3.0
HIT 79 Healthcare Quality and Reimbursement	4.0
HIT 77A Professional Practice I	4.0
HIT 77B Professional Practice II	2.0
Total:	**41.0 – 46.0**

Health Information Technology Certificate

This certificate program is designed for students entering City College with a degree (A.A. /A.S. or higher) or who wish to work in health information technology before completing CCSF graduation requirements. Students who complete the program are eligible to take the Certified Coding Associate (CCA) national certification examination offered by the American Health Information Management Association (AHIMA).

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the knowledge and record management skills necessary for HIM entry-level employment as a health information professional in various health care settings.
- Apply the knowledge and computer skills necessary for HIM entry level employment as a health information professional in various health care settings.
- Demonstrate the behavioral, interpersonal, ethical, and professional skills necessary for HIM employment as a health information professional in various health care setting.

The minimum time for completion of this certificate is 4 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Health Information Technology

Course	Units
First semester: choose one of the following anatomy and physiology options:	
OPTION 1:	
BIO 106 Introduction to Human Anatomy and Physiology	4.0
OPTION 2:	
BIO 108 General Human Anatomy	4.0
AND one of the following Physiology courses:	
BIO 111 Human Physiology	5.0
BIO 112 Introduction to Human Physiology	4.0
First semester required courses:	
HCT 61 Introduction to Health Care	2.0
HIT 50A Medical Terminology I	3.0
HCT 67 Computer Applications in the Health Care Setting	2.0
Second semester required courses:	
HIT 50B Medical Terminology II	2.0
HIT 57 Disease Process	3.0
HIT 65 Organization of Health Data	3.0
HIT 73A ICD-10-CM Coding	3.0
HIT 63 Health Information Systems	3.0
Third semester required courses:	
HIT 72 Legal Aspects of HIM	3.0
HIT 73B ICD-10-PCS Coding	3.0
HIT 79 Healthcare Quality and Reimbursement	4.0
Fourth semester required courses:	
HIT 77A Professional Practice I	4.0
HIT 77B Professional Practice II	2.0
HIT 75 Organization and Management in Health	3.0
HIT 76 CPT Coding	3.0
Total:	**47.0 – 52.0**

Health Unit Coordinator Certificate

This program is designed to introduce the student to the clerical duties of the hospital unit coordinator. The unit coordinator serves as the liaison between the hospitalized patient and the medical professionals in

an acute care or other medical facility environment. Students will gain the knowledge and communication skills necessary for this entry-level position.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the various health care departments and delivery systems.
- Explain the role and responsibilities of a unit coordinator in a nursing care unit of a hospital.
- Recall and apply appropriate medical terminology on the clinical site.
- Demonstrate professional behavior and team work skills in the health care environment.
- Apply principles of rescue breathing, first aid, and cardiopulmonary resuscitation to scenarios of patients of all age groups.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Health Unit Coordinator

Course	Units
Required	
HCT 110 Health Unit Coordinator	4.0
EMT 12 Basic Life Support for Healthcare Providers	0.5
Total:	**4.5**

Phlebotomy Certificate

The certificate in Phlebotomy provides students with the theoretical knowledge and skills competencies necessary to meet California regulatory requirements for phlebotomy technicians and prepares students to take the CPT-1 examination. Students who complete their training satisfactorily are prepared to hold a position as a phlebotomist in a physician's office, hospital, hospital outpatient clinic, medical clinic, and health centers. Students will also receive an AHA BLS Health Care Provider CPR card by successfully completing EMT 12. Students who successfully complete EMT 14 will receive an AHA BLS Health Care Provider CPR and first aid cards.

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform venipuncture procedures safely and professionally within the scope of practice of a phlebotomist.
- Communicate effectively with patients, families, and healthcare providers.
- Identify the requirements for the Certified Phlebotomy Technician Examination (CPT-I) for employment as a phlebotomist.
- Collaborate in a culturally diverse health care environment and apply the principles of health care ethics and professional conduct with patients, staff, and the community.
- Apply current basic life support (BLS) standards of practice to simulations of adult, child, and infant patients in need of cardiopulmonary resuscitation.

The minimum time for completion of this certificate is one semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Phlebotomy

Course	Units
Required	
HCT 104 Phlebotomy Technician	5.5
EMT 12 Basic Life Support for Healthcare Providers	0.5
or EMT 14 First Aid and Cardiopulmonary Resuscitation	3.0
Total:	**6.0 – 8.5**

Medical Assisting Program

Degree Curricula

(Options in Medical Assisting and Medical Administrative Assisting)

The curriculum in Medical Assisting, a two-year course of study, offers students training for employment through options in two areas: Medical Assisting and Medical Administrative Assisting. The Medical Assisting program is offered in cooperation with the American Association of Medical Assistants (AAMA).

Admission. Enrollment is open to all interested students; however, strongly recommended for success in the program: ENGL 88 or ESL 186 or placement in ESL 188 or readiness for college-level English.

Students must complete HCT 61, Introduction to Health Care, during their first semester with a final grade of "C" or higher. HCT 61 is an orientation course conducted by the faculty of the Health Care Technology Department to review the requirements and expectations of the curriculum. Students are also required to satisfy prerequisites in order to enroll in certain courses.

Students are required to submit evidence of a recent tuberculin skin test or chest x-ray, proof of immunizations, and a physical examination which indicates that they are in good physical health to include the following:

- vision correctable to 20/30 in both eyes
- able to stand unassisted for long periods of time
- able to walk, bend, reach, and stoop frequently
- able to assist patients on and off exam tables and in and out of wheel chaired
- normal hearing or corrected hearing within normal range
- able to manipulate stationary and mobile medical equipment
- behavior and social skills acceptable within the college and clinical rotations

Please refer to the Dictionary of Occupational Titles to review the Federal ADA guidelines. Go to: ***www.occupationalinfo.org***

Students who enroll in HCT 82A/B must also hold a valid CPR Healthcare Provider card from the American Heart Association, complete a background and drug screening, and complete a HIPAA Awareness training to qualify for the Professional Practice Internship. Students are responsible for all fees required to qualify for enrolment in the Professional Practice Internship.

Credit by Examination. Applicants who have been admitted to the Program and who have previous education or medical assisting/clerical or related experience may apply for credit and advanced placement in the curriculum by transfer or challenge process.

Purchase of Uniform and Clinical Supplies. Students are responsible for purchasing a uniform and stethoscope for use in the clinical skills courses. Other fees may be required for the clinical classes.

Accreditation. The Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) 9355-113th St. N., #7709, Seminole, FL 33775, (727) 210-2350, ***www.caahep.org***, on recommendation of the Committee on Accreditation for Medical Assistant Education Review Board (MAERB). For more information about these agencies, see the "Overview of the College" section of this Catalog.

Course of Study. Each option includes training in the following subjects common to all branches of medical assisting: Anatomy and physiology, medical terminology, computer applications, business correspondence, medical billing, insurance and coding, filing systems, medical records including the electronic health record, psychology and professional relationships, management and supervision, and CPR and first aid.

In addition, students who elect the option in Medical Assisting receive specialized training in clinical procedures including phlebotomy and medical laboratory techniques and are eligible to apply and sit for the CPT-1, CMA, RMA, CMAA or other approved medical assisting certification exam.

In the Professional Practice Preparation/Certification (HCT82A) and Professional Practice Internship (HCT 82B) courses in the second year, students complete 180 hours of unpaid supervised practical training off campus in their specific field of study. Students who elected the option of Medical Assisting are assigned to perform clinical and administrative duties with physicians and other medical personnel without compensation in an outpatient clinic, medical office or health center. Students who have elected the option in Medical Administrative Assisting are assigned primarily to perform administrative duties without compensation in an outpatient clinic, medical office, or health center.

Employment. Students who have completed their training satisfactorily are qualified for employment in various capacities. Those who have completed the option in Medical Assisting are prepared to hold positions combining the duties of medical assistant, receptionist, and office manager in outpatient clinics, medical offices or health centers. Those who have completed the option in Medical Administrative Assisting are qualified for the positions of receptionist, medical biller, admitting clerk OR admitting or ward clerk, or office manager in an outpatient clinic, medical office, and health center.

Associate in Science Degree. The curriculum is designed so that students may satisfy the requirements for graduation from the College. Students who satisfy these requirements and complete their training in Medical Assisting or Medical Administrative Assisting with a 2.0 grade point average or higher receive the Associate Degree in Medical Assisting or Medical Administrative Assisting.

Certified Medical Assistant Examination. Graduates who receive the Certificate of Achievement in Medical Assisting are eligible to take the Certified Medical Assistant (CMA) examination given by the American Association of Medical Assistants (AAMA).

Medical Assisting Major (AS)

Students who complete their training satisfactorily are prepared to hold positions as a medical assistant, medical receptionist, or office manager in the physician's office, hospital outpatient clinic, medical clinics, and health centers. The Medical Assisting Certificate Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 9355-113th St. N., #7709 Seminole, FL 33775, (727) 210-2350, ***www.caahep.org***, on recommendation of the Medical Assisting Education Review Board (MAERB). Graduates who complete the Associate of Science in Medical Office Assisting also receive the Certificate of Achievement and are eligible to take the Certified Medical Assistant examination given by the American Association of Medical Assistants (AAMA). Students must hold a valid AHA Healthcare Provider CPR and First Aid card to complete the Internship.

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform clinical procedures, laboratory tests, phlebotomy, and diagnostic studies.
- Use computer applications to create documents and perform medical record and billing activities.
- Practice infection control and adhere to OSHA and HIPAA regulations.
- Receive, communicate with, and support patients and staff.
- Collaborate in a culturally diverse health care environment and apply the principles of health care ethics and professional conduct with patients, staff, and the community.
- Compare the various certification exams for medical assistants.
- Describe the procedure for applying for the phlebotomy certifying exam and license.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Medical Assisting

Course . . . . . Units

Choose one of the following Anatomy and Physiology options:

OPTION 1:

BIO 106 Introduction to Human Anatomy and Physiology 4.0

OPTION 2:

BIO 108 General Human Anatomy 4.0

AND choose one of the following Physiology options:

BIO 111 Human Physiology 5.0
BIO 112 Introduction to Human Physiology 4.0

First Semester:

HCT 61 Introduction to Health Care 2.0
HIT 50A Medical Terminology I 3.0
HCT 67 Computer Applications in the Health Care Setting 2.0
EMT 14 First Aid and Cardiopulmonary Resuscitation 3.0
MED 55 The Electronic Health Record 3.0
MED 56 Administrative Procedures 3.5

Second Semester:

HIT 50B Medical Terminology II 2.0

HIT 57 Disease Process 3.0
HIT 76 CPT Coding 3.0
MED 49 Clinical Procedures 5.5
MED 62 Communication and Professionalism in Health Care 2.0
MED 70 Medical Insurance Billing 2.0
MED 71 Electronic Management of Financial Medical Records 2.0

Summer Session:
HCT 82A Professional Practice Preparation and Certification 2.0
HCT 82B Professional Practice Internship 3.0

Third Semester:
MED 73 Advanced Medical Billing 1.5
HIT 73A ICD-10-CM Coding 3.0
HIT 75 Organization and Management in Health 3.0
PSYC 1 General Psychology 3.0
HCT 104 Phlebotomy Technician 5.5

Total: . . . . . 61.0 – 66.0

Medical Administrative Assisting Major (AS)

Students who complete their training satisfactorily are prepared to hold positions as a medical receptionist, admitting clerk, ward clerk, or office manager in the physician's office, hospital outpatient clinic, medical clinic, or health center. Students are eligible to sit for the Certified Professional Coder (CPC) or Certified Coding Specialist Physician Office (CCS-P) examinations.

Learning Outcomes

Upon completion of this program, students will be able to:

- Receive, communicate with, and support patients and staff.
- Apply the principles of medical coding and billing to insurance claims and other financial documents.
- Use computer applications to create documents and perform medical record and billing activities.
- Apply the principles of health care ethics and professional conduct with patients, staff, and the community.
- Apply for and pass the Certified Professional Coder (CPC) examination.

Students in the Medical Administrative Assisting AS program must maintain a grade of "C" or higher.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Medical Administrative Assisting

Course . . . . . Units

Required
PSYC 1 General Psychology 3.0

Choose one of the following Anatomy and Physiology options:
OPTION 1:
BIO 106 Introduction to Human Anatomy and Physiology 4.0

OPTION 2:
BIO 108 General Human Anatomy 4.0
AND one of the following Physiology courses
BIO 111 Human Physiology 5.0
BIO 112 Introduction to Human Physiology 4.0

First Semester:
HCT 61 Introduction to Health Care 2.0
HCT 67 Computer Applications in the Health Care Setting 2.0
HIT 50A Medical Terminology I 3.0
MED 55 The Electronic Health Record 3.0
MED 56 Administrative Procedures 3.5

Second Semester:
HIT 50B Medical Terminology II 2.0
HIT 57 Disease Process 3.0
HIT 73A ICD-10-CM Coding 3.0
MED 62 Communication and Professionalism in Health Care 2.0
MED 70 Medical Insurance Billing 2.0
MED 71 Electronic Management of Financial Medical Records 2.0

Summer Session:
HCT 82A Professional Practice Preparation and Certification 2.0
HCT 82B Professional Practice Internship 3.0

Third Semester:
HIT 75 Organization and Management in Health 3.0
MED 72 Advanced Medical Insurance Billing 2.0
MED 73 Advanced Medical Billing 1.5

Total: . . . . . 46.0 – 51.0

Pharmacy Technician Major (AS)

Students may obtain the Associate of Science in Pharmacy Technician by successfully completing the courses in the major program and general education requirements. The Pharmacy Technician Program starts in the fall semester each year. The curriculum is designed to prepare students to work under the direct supervision of a pharmacist in hospitals, community-based pharmacies, and other institutional settings.

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform the administrative and clinical skills necessary for entry-level employment as a pharmacy technician in a hospital, retail pharmacy, or other institutional setting.
- Provide professional customer service to patients and clients in a pharmacy setting.
- Prepare for licensing as a Pharmacy Technician to the California State Board of Pharmacy.
- Prepare for the Pharmacy Technician Certification Board National examination.

To be considered for admission to the program, applicants must:

1. Complete the prerequisites: Intermediate algebra or higher; Readiness for college-level English or ESL 188
2. Attend the orientation session and pick up the Application to the Pharmacy Technician Program.

3. Complete and submit the Application to the Pharmacy Technician Program to the Pharmacy Technician Office, Room 111, Gym Building, John Adams Campus, by the application deadline date.
5. Attend the individual orientation session scheduled with the Pharmacy Technician instructors to review prerequisite compliance and clinical placement requirements
6. File with the Office of Admissions and Records a completed credit application for admission to City College.

Successful applicants are required to submit evidence of a recent tuberculin skin test or chest x-ray, proof of immunizations, and a physical examination that indicates they are in good physical health, including the following:

- 20/100 vision correctable to 20/30 in both eyes with normal color perception
- the ability to stand unassisted for long periods of time
- the ability to walk, bend, reach, lift product, and stoop frequently
- normal hearing or corrected hearing within the normal range
- the ability to manipulate stationary and mobile medical equipment

Although applicants who meet the above requirements are eligible for the program, classroom space and clinical site placements limit the class size to 30 students; therefore, students are selected by lottery from the eligible applicants.

Background Check. A background check may be required by the assigned clinical sites. The cost of this will be incurred by the student. Students must complete this background check prior to clinical placement.

Drug Screening. Drug screening may be required by the clinical placement site. The student is responsible for this cost.

Immunization Screening. Certain immunizations may be required by the clinical placement site. The student is responsible for this cost.

While students have some choice in how to fulfill their General Education and graduation requirements, the Pharmacy Technician Program recommends the following course work: MATH 80 or MATH 80+80S or ECON 5 or PSYC 5 or LALS 5; ASAM 20 or LALS 1 or AFAM 60 or HIST 12B.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Please contact the Biotechnology Program Coordinator to plan the biotechnology courses for the AS Degree. Assuming a student starts this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and the number of units completed per semester.

Courses Required for the Major in Pharmacy Technician

Course . . . . . Units

First Semester

PHTC 101 Pharmacy Technician I Theory 9.0
PHTC 102 Pharmacy Technician I Clinical 7.0

Second Semester

PHTC 103 Pharmacy Technician II Theory 9.0
PHTC 104 Pharmacy Technician II Clinical 5.0
EMT 12 Basic Life Support for Healthcare Providers 0.5

Third Semester

BIO 108 General Human Anatomy 4.0
BIO 112 Introduction to Human Physiology 4.0
CMST 5 Intercultural Communication 3.0
PSYC 1 General Psychology 3.0

Total: 44.5

Medical Assisting Certificate

The certificate in Medical Assisting provides students with both clinical and administrative training. Students who complete their training satisfactorily are prepared to hold positions as a medical assistant, medical receptionist, or office manager in a physician's office, hospital outpatient clinic, medical clinic, and health centers. The Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 9355-113th St. N., #7709 Seminole, FL 33775, (727) 210-2350, ***www.caahep.org***, on recommendation of the Medical Assisting Education Review Board (MAERB). Graduates who complete the Certificate of Achievement are eligible to take the Certified Medical Assistant examination given by the American Association of Medical Assistants (AAMA).

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform clinical procedures, laboratory tests, phlebotomy, and diagnostic studies.
- Use computer applications to create documents and perform medical record and billing activities.
- Practice infection control and adhere to OSHA and HIPAA regulations.
- Receive, communicate with, and support patients and staff.
- Collaborate in a culturally diverse health care environment and apply the principles of health care ethics and professional conduct with patients, staff, and the community.
- Compare the various certification exams for medical assistants.
- Describe the procedure for applying for the phlebotomy certifying exam and license.

Students must complete each course with a grade of "C" or higher. Students must hold a valid AHA HealthCare Provider CPR and First Aid card to complete the Internship.

The minimum time for completion of this certificate is 3 semesters (plus Summer internship). Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Medical Assisting

Course . . . . . Units

Choose one of the following Anatomy and Physiology options:

OPTION 1:

BIO 106 Introduction to Human Anatomy and Physiology 4.0

OPTION 2:
BIO 108 General Human Anatomy 4.0

AND one of the following Physiology courses:
BIO 111 Human Physiology 5.0
BIO 112 Introduction to Human Physiology 4.0

Required Course
EMT 14 First Aid and Cardiopulmonary Resuscitation. . . 3.0

First Semester:
HCT 61 Introduction to Health Care 2.0
HIT 50A Medical Terminology I 3.0
HCT 67 Computer Applications in the Health Care Setting 2.0
MED 55 The Electronic Health Record 3.0
MED 56 Administrative Procedures. 3.5
HCT 104 Phlebotomy Technician 5.5

Second Semester:
HIT 50B Medical Terminology II 2.0
HIT 57 Disease Process 3.0
HIT 73A ICD-10-CM Coding 3.0
HIT 76 CPT Coding 3.0
MED 49 Clinical Procedures 5.5
MED 62 Communication and Professionalism in Health Care 2.0
MED 70 Medical Insurance Billing. 2.0
MED 71 Electronic Management of Financial Medical Records 2.0

Summer Session:
HCT 82A Professional Practice Preparation and Certification. 2.0
HCT 82B Professional Practice Internship 3.0

Total: . . . . . 53.5 – 58.5

Medical Biller Certificate

This certificate program prepares students to complete medical insurance claims for physician offices and outpatient medical facilities. Students learn CPT and ICD-10-CM coding, medical terminology, disease processes, computer bookkeeping procedures, and manual and computer insurance billing for commercial insurance, Medicaid, Medicare, Worker's Compensation, and managed care plans.

Learning Outcomes

Upon completion of this program, students will be able to:

- Assign CPT codes to outpatient services and procedures.
- Assign ICD-10-CM codes to diagnoses.
- Perform insurance billing procedures necessary for entry-level employment in an ambulatory health care setting.
- Identify the various certification options for billers and coders and their professional associations.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Medical Biller
Course . . . . . Units
First Semester:
BIO 106 Introduction to Human Anatomy and Physiology 4.0
HIT 50A Medical Terminology I 3.0
HCT 67 Computer Applications in the Health Care Setting 2.0
HIT 76 CPT Coding 3.0
MED 70 Medical Insurance Billing. 2.0
MED 71 Electronic Management of Financial Medical Records 2.0

Second Semester:
HIT 50B Medical Terminology II 2.0
MED 55 The Electronic Health Record 3.0
HIT 57 Disease Process 3.0
HIT 73A ICD-10-CM Coding 3.0
MED 72 Advanced Medical Insurance Billing 2.0
MED 73 Advanced Medical Billing. 1.5

Total: 30.5

Medical Clinic Assisting Certificate

Students who complete this certificate successfully are prepared to hold positions as clinic assistants. Students have the option of completing additional courses for a Certificate of Achievement in Medical Assisting. Students receive training in anatomy and physiology, medical terminology, computer applications and administrative procedures, the electronic health record, disease processes, communication and professionalism, and clinical procedures. Students will complete an internship and must hold a valid CPR Health Provider card and a HIPAA Awareness Training certificate.

Learning Outcomes

Upon completion of this program, students will be able to:

- Practice infection control and adhere to OSHA regulations.
- Perform clinical procedures effectively, including injections and skin punctures, laboratory tests, and diagnostic studies.
- Use computer applications to create documents, communicate with, and support patients and staff.
- Collaborate in a culturally diverse health care environment, applying the principles of health care ethics and professional conduct.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Medical Clinic Assisting
Course . . . . . Units
First semester required courses:
BIO 106 Introduction to Human Anatomy and Physiology 4.0
HIT 50A Medical Terminology I 3.0
HCT 67 Computer Applications in the Health Care Setting 2.0
MED 56 Administrative Procedures. 3.5
MED 62 Communication and Professionalism in Health Care 2.0

Second semester required courses:
MED 49 Clinical Procedures 5.5
HIT 57 Disease Process 3.0
MED 55 The Electronic Health Record 3.0

HCT 82A Professional Practice Preparation and Certification 2.0
HCT 82B Professional Practice Internship 3.0

Total: 31.0

Medical Evaluation Assistant Certificate

This certificate program is designed specifically for employment within the San Francisco Public Health Department including the neighborhood health clinics. Students have the option of completing additional courses for a Certificate of Achievement in Medical Office Assisting. Students receive instruction in anatomy and physiology, medical terminology, health care systems, medical typing and transcription, health education and disease processes, clinical procedures, phlebotomy, and computer applications. Students will complete an internship and must hold a valid CPR Health Provider card and a HIPAA Awareness Training certificate.

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform clinical procedures, laboratory tests, phlebotomy, and diagnostic studies for entry level employment as a Medical Evaluation Assistant.
- Apply infection control processes while adhering to OSHA regulations.
- Receive, communicate with, and support patients and staff.
- Collaborate in a culturally diverse health care environment and apply the principles of health care ethics and professional conduct with patients, staff, and the community.
- Describe the process to apply for the Certified Phlebotomy Technician examination (CPT-1).

Students may obtain the Certificate of Achievement for MEA by completing each of the following courses with a grade of "C" or higher.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Medical Evaluation Assistant

Course . . . . . Units

Fall Semester:
HIT 50A Medical Terminology I 3.0
HCT 67 Computer Applications in the Health Care Setting 2.0
MED 55 The Electronic Health Record 3.0
MED 62 Communication and Professionalism in Health Care 2.0

Fall Semester: choose one of the following Anatomy and Physiology options:

OPTION 1:
BIO 106 Introduction to Human Anatomy and Physiology 4.0

OPTION 2:
BIO 108 General Human Anatomy 4.0

AND choose one of the following Physiology courses:
BIO 111 Human Physiology 5.0
BIO 112 Introduction to Human Physiology 4.0

Spring Semester:
HCT 104 Phlebotomy Technician 5.5
HIT 50B Medical Terminology II 2.0
HIT 57 Disease Process 3.0
HLTH 66 Chronic Conditions Management 3.0
MED 49 Clinical Procedures 5.5
MED 71 Electronic Management of Financial Medical Records 2.0

Summer Session:
HCT 82A Professional Practice Preparation and Certification 2.0
HCT 82B Professional Practice Internship 3.0

Total: . . . . . 40.0 – 45.0

Medical Receptionist Certificate

This certificate program prepares students for employment as a receptionist in a physician's office, outpatient clinic, or other medical facility. Students receive training in computer applications, appointment scheduling, telephone etiquette, communication and professionalism, medical record preparation, medical terminology, business correspondence, insurance policies and claims completion, and first aid and CPR.

Learning Outcomes

Upon completion of this program, students will be able to:

- Receive, communicate with, and support patients and staff.
- Use computer applications to create documents and perform medical record and billing activities.
- Apply the principles of health care ethics and professional conduct with patients, staff, and the community.
- Apply the principles of procedural coding and billing to insurance claims and other financial documents.

Students may obtain the Medical Receptionist Certificate of Achievement by completing each of the following courses with a grade of "C" or higher.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Medical Receptionist

Course . . . . . Units

Fall Semester: choose one of the following Anatomy and Physiology options:

OPTION 1:
BIO 106 Introduction to Human Anatomy and Physiology 4.0

OPTION 2:
BIO 108 General Human Anatomy 4.0

AND choose one of the following Physiology options:
BIO 111 Human Physiology 5.0
BIO 112 Introduction to Human Physiology 4.0

Fall Semester required courses:
HCT 61 Introduction to Health Care 2.0
HCT 67 Computer Applications in the Health Care Setting 2.0
HIT 50A Medical Terminology I 3.0

MED 56 Administrative Procedures. 3.5

Spring Semester:
HIT 50B Medical Terminology II 2.0
HIT 76 CPT Coding 3.0
MED 55 The Electronic Health Record 3.0
MED 62 Communication and Professionalism in Health Care. 2.0
MED 70 Medical Insurance Billing. 2.0
MED 71 Electronic Management of Financial Medical Records 2.0

Summer Session:
HCT 82A Professional Practice Preparation and Certification. 2.0
HCT 82B Professional Practice Internship 3.0

Total: . . . . . 33.5 – 38.5

Pharmacy Technician Certificate

The Certificate of Achievement in Pharmacy Technician is designed to prepare students to work under the direct supervision of a pharmacist in hospitals, retail pharmacies, and other institutional settings.The Pharmacy Technician Program starts in the Fall Semester each year.

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform the administrative and clinical skills necessary for entry-level employment as a pharmacy technician in a hospital, retail pharmacy, or other institutional setting.
- Provide professional customer service to patients and clients in a pharmacy setting.
- Prepare for licensing as a Pharmacy Technician to the California State Board of Pharmacy.
- Prepare for the Pharmacy Technician Certification Board National examination.

To be considered for admission to the program, applicants must:

1. Complete the prerequisites: Elementary algebra or higher; Readiness for college-level English or ESL 188
2. Attend one orientation session scheduled in fall or spring and pick up the Application to the Pharmacy Technician Program.
3. Complete and submit the Application to the Pharmacy Technician Program to the Pharmacy Technician Office, Room 111, Gym Building, John Adams Center, by the deadline date and time.
4. Attend the individual orientation session scheduled with the Pharmacy Technician instructors to review prerequisite compliance and clinical placement requirements
5. File with the Office of Admissions and Records a completed credit application for admission to City College

Successful applicants are required to submit evidence of a recent tuberculin skin test or chest x-ray, proof of immunizations, and a physical examination which indicates they are in good physical health to include the following:

- 20/100 vision correctable to 20/30 in both eyes with normal color perception
- able to stand unassisted for long periods of time
- able to walk, bend, reach, lift product, and stoop frequently
- possess normal hearing or corrected hearing within the normal range
- able to manipulate stationary and mobile medical equipment

Although all applicants who meet the above requirements are eligible for the program, classroom space and clinical site placements limit the class size to 30 students; therefore, students are selected by lottery from the eligible applicants.

Background Check. A background check may be required by the assigned clinical sites. The cost of this will be incurred by the student. Students must complete this background check prior to clinical placement.

Drug Screening. Drug screening may be required by the clinical placement site. The student is responsible for this cost.

Immunization Screening. Certain immunizations may be require by the clinical placement site. The student is responsible for this cost.

The minimum time for completion of this certificate is 2 semesters. Students must have a valid BLS Health Care Provider CPR card to complete the work experience.

Courses Required for the Certificate of Achievement in Pharmacy Technician

Course . . . . . Units
First Semester:
PHTC 101 Pharmacy Technician I Theory* 9.0
PHTC 102 Pharmacy Technician I Clinical* 7.0
* Both theory and clinical courses must be taken in the same semester.

Second Semester:
PHTC 103 Pharmacy Technician II Theory* 9.0
PHTC 104 Pharmacy Technician II Clinical* 5.0
* Both theory and clinical courses must be taken in the same semester.

Total: 30.0

Announcement of Courses

Credit, Degree Applicable Courses:

Echocardiography

ECHO 101. Echocardiography (7)
Lec-105, Lab-52.5
Prereq: BIO 106 or BIO 108
Coreq: CVT 101 and CVT 110
Recommended Prep: (Readiness for college-level English or ESL 188) and (background check, drug screening, immunization records and TB testing required by the medical centers for internship attendance)
Cardiac anatomy and physiology. Standard presentation of Two Dimensional (2D) Echo and M-Mode images of normal and abnormal echocardiograms. Color flow, pulse and continuous wave Doppler findings of normal and cardiac pathology identify valvular stenosis and regurgitation. Description of cardiac pathology and associated 2D findings, Doppler patterns, and related calculations for determining severity. CSU
Students must submit an application and be accepted into

the CVT/ECHO Program prior to registration. Required background check and drug screening. Required current immunization records an TB testing.
Offered in alternate Fall semesters

ECHO 201. Advanced Echocardiography Technician (7)
Lec-87.5, Lab-105
Prereq: ECHO 101
Advanced cardiac abnormalities evaluated by two dimensional (2D), M-Mode, and Doppler methods include: stenosis, valve abnormalities, regurgitation, diastolic dysfunction, cardiomyopathies, pericardial and coronary artery disease, congestive heart failure, hypertension, pulmonary hypertension, right ventricular methods of evaluation, masses and tumors, endocarditis, prosthesis, aortic root diseases, and cardiac transplants. Transesophagael Echo: standard views, and Doppler identification. CSU
Offered in alternate Spring semesters

ECHO 301. Advanced Cardiac Abnormalities (5)
Lec-70, Lab-52.5
Prereq: ECHO 201
Description and echocardiographic findings of advanced cardiac abnormalities including pulmonary hypertension, pulmonary emboli, endocarditis, prosthetic valves, cardiac masses, transplant, and aortic root disease. Emphasis on cardiac embryology and congenital cardiac defects and the associated echocardiographic findings. Content includes echocardiographic identification of surgical repairs of congenital cardiac diseases. CSU
Offered in alternate Fall semesters

ECHO 401. Advanced Echocardiographic Studies (6)
Lec-105
Prereq: ECHO 301
Course content introduces advanced cardiac ultrasound technologies and assessment methods including 3D Echocardiography, Cardiac Resynchronization Therapy, Ventricular Assist Devices, Transesophageal Echocardiography, Electrophysiology Studies, Strain-Strain Rate and Speckle Tracking. Emphasis on carotid ultrasound imaging, Doppler, and characteristics of carotid pathology. CSU
Offered in alternate Spring semesters

CVT 101. Cardiovascular Technician (3)
Lec-52.5
Prereq: BIO 106 or BIO 108
Coreq: ECHO 101 and CVT 110
Recommended Prep: Readiness for college-level English or ESL 188
Cardiac anatomy and the cardiac electrical conduction system. Electrocardiogram (ECG) identification and measurements, action potential curve, basic cardiac dysrhythmia, myocardial ischemia and infarction patterns. Interpretation techniques of 12 lead ECGs, long term ECG recording and exercise stress testing protocols, procedures, and analysis. CSU
Offered in alternate Fall semesters

CVT 110. Cardiovascular Skills (7)
Lec-105, Lab-52.5
Prereq: BIO 106 or BIO 108
Coreq: ECHO 101 and CVT 101
Recommended Prep: Readiness for college-level English or ESL 188
Develop technical imaging skills to perform echocardiograms and manipulate ultrasound system instrumentation. Identify cardiac structures and locations of standardized measurements. Complete electrocardiogram(ECG) and assess rhythm strips and 12 lead electrocardiograms. CSU
Offered in alternate Fall semesters

CVT 201. Advanced Cardiovascular Technician (4)
Lec-52.5, Lab-52.5
Prereq: CVT 101
Advanced complex cardiac rhythms including heart blocks, bundle branch blocks, and accessory pathways. Includes cardiac pharmacology, pacemaker technology, exercise treadmill exams, and stress echo indications: procedures and analysis. CSU
Offered in alternate Spring semesters

CVT 210A. Introductory Echocardiography Professional Practice (5)
Lec-52.5, Lab-108
Prereq: CVT 110
Coreq: CVT 210B; CVT 201; ECHO 201
This is the adjunct course to CVT 210B, Professional Work Experience. The course instructor will oversee the student?s continuing echocardiographic skills development in the CVT ECHO Skills Lab in the college setting. There will be oversight and support of students in their medical center internships (professional work experience). CSU

CVT 210B. Introductory Echocardiography Professional Practice Work Experience (2)
Work-144 P/NP only
Prereq: CVT 110; Approval of Healthcare Technology Department.
Coreq: CVT 210A; CVT 201; ECHO 201
A supervised professional work experience at the entry level in performance of ultrasound procedures and other noninvasive cardiac procedures. Emphasis on observation of echocardiograms on inpatients in critical care units, developing patient care skills, learning departmental guidelines for processing echocardiograms, and performing basic echocardiograms. Placement is determined by Program Officials. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
A fee of $6 for a nametag will be assessed to the student account.

CVT 301. Physics of Cardiac Ultrasound (3)
Lec-52.5
Prereq: CVT 201
Description and analysis of ultrasound physics as applied to sound waves, transducers, two-dimensional images, Doppler, hemodynamic principles, system functions, ultrasound artifacts and biosafety concerns. CSU
Offered in alternate Fall semesters

CVT 310A. Intermediate Echocardiography Professional Practice (4)
Lec-52.5, Lab-70
Prereq: CVT 210A; CVT 210B
Coreq: CVT 310B; CVT 301; ECHO 301
This is the adjunct course to CVT 310B, Professional Work Experience. Oversight of the student?s continuing skills development in the CVT ECHO College Skills Lab as it relates to performance during professional work experience in non-invasive cardiology departments, CSU

CVT 310B. Intermediate Echocardiography Professional Practice Work Experience (6.5)
Work-408, field trips P/NP only
Prereq: CVT 210A; CVT 210B; Approval of Healthcare Technology Department
Coreq: CVT 310A; CVT 301; ECHO 301
Second semester of intermediate training level under supervised profes

sional in a medical center with performance of ultrasound procedures and other noninvasive cardiac procedures. Emphasis on performing echocardiograms on inpatients in critical care units and completing reports in patient archiving systems. Placement is determined by program officials. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU

CVT 410A. Echocardiography Professional Practice (3)
Lec-52.5 P/NP only
Prereq: CVT 310A and CVT 310B
Coreq: ECHO 401 and CVT 410B
This course covers the preparation and requirements to complete the work experience in an Echocardiography Department, prepares students for the certification examination, and provides resume, job search, and interview techniques for employment in the profession. CVT 410A is the corequisite course to CVT 410B, Echocardiography Professional Experience. CSU
CVT 410A + CVT 410B = CVT 410

CVT 410B. Echocardiography Professional Experience (6.5)
Work-408, field trips P/NP only
Prereq: CVT 310A and CVT 310B
Coreq: ECHO 401 and CVT 410A
A supervised professional work experience with the most advanced training level in performance of cardiac ultrasound procedures and other invasive cardiac procedures. Emphasis on performing echocardiograms on inpatients in critical care units and completing preliminary reports in patient archiving systems. CVT 410B is the adjunct course to CVT 410A, Echocardiography Professional Practice. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
CVT 410A + CVT 410B = CVT 410

ECG Technician

ECGT 101. ECG Technician I (4)
Lec-52.5, Lab-70
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to the cardiovascular system and related terminology. Emphasis on basic rhythm identification, calculation of wave forms, and cardiac disease states. Patient preparation, running, mounting and basic interpretation of 12 lead, single and three channel ECG tracings. CSU
Formerly EKGT 101
Offered Spring and Fall semesters

ECGT 102. ECG Technician II (4)
Lec-52.5, Lab-52.5
Prereq: ECGT 101
Advanced knowledge of cardiovascular system with emphasis on the heart in disease states including interpretation of advanced arrhythmias, hypertrophies, cardiac ischemia, and myocardial infarction. Patient preparation and running of appropriate ECG machines. Introduction to other non-invasive cardiology tests. CSU
Formerly EKGT 101
Offered Spring semesters

ECGT 103A. Electrocardiography Professional Experience (1)
Lec-17.5 P/NP only
Prereq: ECGT 102
Coreq: ECGT 103B
Covers professional requirements relating to supervised experience in a Non-Invasive Cardiology Department performing cardiovascular procedures. Cardiovascular Credentialing International (CCI) Registry Exam application and preparation skills. CSU
Offered only in Fall semesters

ECGT 103B. Electrocardiography Professional Practice (3)
Work-180, field trips P/NP only
Prereq: ECGT 102; Approval of Health Care Technology Department.
Coreq: ECGT 103A
Provide students with supervised professional experience in a Non-Invasive Cardiology Department performing cardiovascular procedures. Emphasis on performing electrocardiograms and exercise stress tests on inpatients and outpatients. One unit of credit is earned for each 60 hours of unpaid, or 75 hours of paid work. CSU
A fee of $6 for a nametag will be assessed to the student account.
Offered only in Fall semesters

Emergency Medical Technician

EMT 11A. Pediatric CPR and First Aid (.5)
Lec-9 P/NP available
Training for childcare providers in pediatric CPR and first aid including thepractice of universal precautions, use of an AED and integration with the EMS system. Qualified participants are awarded the American Heart Association Pediatric Heartsaver First Aid CPR AED card. This course fulfills the requirement of the State EMS Authority for Childcare Providers. CSU
Students enrolled in this course will be assessed a lab/material fee for CPR First Aid cards
Elective offered at the department's discretion

EMT 12. Basic Life Support for Healthcare Providers (.5)
Lec-9 P/NP available
American Heart Association (AHA) Basic Life Support cardiopulmonary resuscitation (CPR) with AED certification course. Instruction and practice in the identification and the care of cardiac arrest and choking in adults, children, and infants. AHA BLS Provider cards issued for those who meet competency standards. CSU
Students enrolled in this course will be assessed a $5 lab/material fee for AHA BLS Provider certification card.
Offered Fall and Spring semesters

EMT 13. Standard First Aid (.5)
Lec-9 P/NP available
Standard First Aid includes how to activate the Emergency Medical Services System, recognize the need for emergency care, resuscitation, and specific care for certain medical, traumatic, and environmental emergencies on infants, children, and adult patients. American Heart Association (AHA) Heartsaver First Aid CPR AED card awarded to those who meet AHA competency standards. CSU
Students enrolled in this course will be assessed a $20 lab/material fee for AHA Heartsaver First Aid/CPR/AED card.
Offered on occasion

EMT 14. First Aid and Cardiopulmonary Resuscitation (3)
Lec-52.5 P/NP available
Emergency care for one and two-rescuer adult, child, and infant CPR with bag mask ventilation and AED. First aid for the sick and injured including care of life-threatening, medical, environmental, and traumatic emergencies. Standard first aid, CPR, and AED certification(s) granted upon successful completion of requirements. UC/CSU
C-ID KIN 101
Students enrolled in this course will be assessed a $25 lab/material fee for CPR and first aid cards.
Offered Fall and Spring semesters

EMT 99. National Registry EMT Exam Preparation Course (1)
Lec-18 P/NP only
Prereq: Completion of or concurrent enrollment in: EMT 100 or equivalent course work at another college
Preparation for the computer-adaptive examination used by the National Registry of Emergency Medical Technicians (NREMT) to verify cognitive competency of a basic level Emergency Medical Technician. This course assists students with test-taking skills on scenario-based exams. CSU
Offered Fall and Spring semesters

EMT 100. Emergency Medical Technician (8)
Lec-105, Lab-105
Prereq: Current AHA Healthcare Provider CPR card
Recommended Prep: Certified background check, immunization screening, drug screening, and enrollment in certified background system are required for all enrolled students before being placed on clinical rotations.
Designed to meet the requirements of the State and National Emergency Medical Services (EMS) Education Standards for the Emergency Medical Technician (EMT) basic level provider. Students acquire the cognitive, psychomotor, and affective skills required to provide emergency care and transportation of the ill and injured. Includes required clinical experience on ambulance. CSU
A fee of $6 for a nametag will be assessed to the student account.
Offered Fall and Spring semesters

EMT 101A. EMT Theory and Skills I (4)
Lec-70, field trips
Explores the knowledge and skills of basic Emergency Medical Services workers. Content introduces skills of the basic Emergency Medical Technician (EMT) including history of EMS and foundations of prehospital care. The first of two classes that prepares students to enter an EMT program. CSU
Offered Fall semesters

EMT 101B. EMT Theory and Skills II (4)
Lec-70, field trips
Prereq: EMT 101A
The second portion of EMT theory and skills provides the knowledge and skills required to manage emergencies in the prehospital setting. Emphasis on the assessment and management of various medical and traumatic emergencies. CSU
All sections will charge a material fee of $5.00
Offered Spring semesters

EMT 104. Advanced Skills for EMS Providers (4)
Lec-52.5, Lab-52.5 P/NP available
Prereq: EMT 100
A review of advanced life support psychomotor competency at the paramedic level with a focus on procedural skills development. Incorporates assessment and treatment skills into simulations of critical and non-critical medical and trauma patients. CSU
Offered Fall and Spring semesters

Noncredit Courses:

EMT 5000. Heartsaver First Aid/CPR/AED (8 hrs)
Cardiopulmonary resuscitation (CPR) and first aid (FA) training for the community or for laypersons who may require a completion card for their workplace. Early recognition and management of a victim of a medical, environmental, or traumatic injury, high quality CPR, use of an automated external defibrillator (AED), and first aid for medical and trauma emergencies. An American Heart Association Heartsaver First Aid/CPR/AED card will be awarded upon successful completion.
Offered on occasion

EMT 5005. EMT Refresher (24-48 hrs)
Prereq: Current CPR certification at the healthcare provider level
This course meets the State of California requirements for the Emergency Medical Technician (EMT) refresher and provides the course content and skills verification necessary to recertify as an EMT at the basic level. Additional content fulfills the National Registry of EMT's refresher for recertification at the national level.
Noncredit course offered at the department's discretion

Paramedic Program

Students must submit an application and be accepted into the Paramedic Program prior to registration.

EMTP 121. Introduction to EMS (3)
Lec-35, Lab-52.5
Prereq: BIO 106; EMT 104
Introduction to Emergency Medical Services (EMS) including the history of EMS development, medical legal issues in emergency care, health and safety of the paramedic, principles of EMS research, procedural skills of patient assessment, and advanced airway management. CSU
A fee of $6 for a nametag will be assessed to the student account.
Offered Fall semesters

EMTP 122. Pharmacology in EMS (3)
Lec-35, Lab-52.5
Prereq: BIO 106; EMT 104; Completion of or concurrent enrollment in: EMTP 121
Coreq: EMTP 123; EMTP 125
Basic principles of pharmacology including drug classifications, actions, therapeutic uses in emergency medical services (EMS) and methods of medication administration. CSU
Offered Fall semesters

EMTP 123. Trauma Emergencies (3)
Lec-52.5
Prereq: BIO 106; EMT 104
Coreq: EMTP 124
Pathophysiology, assessment and management of trauma emergencies in the field. Basic and advanced management principles and continuum of trauma care. Focus on prehospital and definitive management of patients with shock as the result of traumatic injury. CSU
Offered Fall semesters

EMTP 124. Trauma Certification (2)
Lec-17.5, Lab-52.5
Prereq: BIO 106; EMT 104
Coreq: EMTP 123
This course meets the requirements for trauma certification according to national, state and local standards in emergency medical services. This course is a required for students enrolled in the paramedic program. CSU
A fee of $15 will be assessed to the student account for the Prehospital Trauma Life Support Provider card. Students must pay this fee to receive the card.
Offered Fall semesters

EMTP 125. Cardiorespiratory Emergencies (4)
Lec-52.5, Lab-52.5
Prereq: BIO 106; EMT 104
Assessment and management principles in EMS advanced life support care of patients with respiratory and cardiovascular emergencies in the emergency setting. Includes ECG interpretation of dysrhythmias,12-Lead ECG, and cardiorespiratory pharmacology. Advanced cardiac life support guidelines and preparation for certification. CSU
A fee of $7 will be assessed to the student account for the Advanced Cardiac Life Support Provider card. Students must pay this fee to receive the card.
Offered Fall semesters

EMTP 126. Neuroendocrine Emergencies (3)
Lec-35, Lab-52.5
Prereq: EMTP 121; EMTP 122; EMTP 125
Prehospital assessment and management of patients with altered mental status, seizures, strokes, diabetes, and other dysfunctions of the neuroendocrine systems. CSU
Offered Spring semesters

EMTP 127. Medical Emergencies (3)
Lec-35, Lab-52.5
Prereq: EMTP 121; EMTP 122; EMTP 125
Prehospital assessment and management of patients with medical emergencies, including allergic, anaphylactic, gastrointestinal, genitourinary, hematologic, toxicologic, psychiatric, environmental, infectious, and immunologic emergencies. CSU
Offered Spring semesters

EMTP 128. OB/GYN & Pedi Emergencies (4)
Lec-52.5, Lab-52.5
Prereq: EMTP 121; EMTP 122; EMTP 125
Prehospital assessment and management of gynecological, obstetric, neonatal and pediatric emergencies. CSU
Offered Spring semesters

EMTP 129. Special Populations, EMS Ops (4)
Lec-35, Lab-105
Prereq: EMTP 121; EMTP 122; EMTP 123; EMTP 125
Prehospital assessment and management of patients with special healthcare challenges. Special populations topics include geriatrics, abuse/neglect, homelessness, poverty, hospice, and home care. Also reviews EMS operations, including crime scene awareness, and patient and scene management at multiple casualty incidents. CSU
Offered Spring semesters

EMTP 130A. Paramedic Clinical Education (7)
Lec-52.5, Lab-200 P/NP available
Prereq: EMTP 126 and EMTP 127 and EMTP 128 and EMTP 129
Didactic and psychomotor competency evaluations in the Paramedic program and supervised patient care in a variety of clinical settings. Paramedic students must successfully pass all competency evaluations in this course to be approved for the Capstone Field Internship. CSU
Offered Summer semesters

EMTP 130B. Paramedic Field Internship (8)
Work-500, field trips P/NP available
Prereq: EMTP 130A; Approval of Health Care Technology Department
Capstone field internship with a paramedic preceptor on an ambulance for evaluation of baseline competency as safe, entry level paramedic pursuant to national and state standards and regulations in the emergency medical services (EMS) professions. Course completes with a review of terminal competency requirements, exit examinations and medical director review of student competency as a safe, entry level paramedic. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU
Offered Fall semesters

EMTP 131. Simulation in Healthcare Education (2)
Lec-35 P/NP available
Introduction to the history, design, and facilitation of simulation in healthcare education and training. Adult learning theory, varieties of healthcare simulation, objectives, and practical application and practice across a range of simulation types. CSU
Offered on occasion

Health Care Technology

HCT 61. Introduction to Health Care (2)
Lec-35
Recommended Prep: Readiness for college-level English or ESL 188
An overview of the evolution of medicine and health care delivery. Development and organization of health care professions, including health information management and medical assisting. Emphasis on inpatient, outpatient, and physician office record content; numbering and filing systems; and electronic health record adoption. CSU
Offered Spring and Fall semesters

HCT 67. Computer Applications in the Health Care Setting (2)
Lec-17.5, Lab-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
An introduction to the various types of computer systems and their use in health care. Instruction will include word processing, spreadsheets, presentation materials, databases, the Internet, and the Health Information Exchange. Importance of data accuracy, consistency, completeness, letter and memo presentation, and data security are emphasized. CSU
Offered Spring and Fall semesters

HCT 82A. Professional Practice Preparation and Certification (2)
Lec-26.5, Lab-26.5 P/NP only
Prereq: HIT 50B; MED 49; MED 56; MED 70; MED 71; MED 55
Coreq: HCT 82B
This class covers the requirements to complete the professional practice in a medical office, outpatient clinic, or health center, including various clinical and administrative skills, preparation for taking certification exams, and resume, job search, and interviewing techniques. CSU
Offered only in Summer semesters

HCT 82B. Professional Practice Internship (3)
Work-180 P/NP only
Coreq: HCT 82A
A supervised, unpaid experience in developing a professional relationship with patients and health professionals in physicians' offices, outpatient clinics, and health centers focusing on professional attitudes and work-related entry-level competencies. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
A fee of $6 for a nametag will be assessed to the student account.
Offered only in Summer semesters

HCT 104. Phlebotomy Technician (5.5)
Lec-92.5, Lab-27
Recommended Prep: BSEN 74 or ESL 186 or CMST 4 or readiness for college-level English
Theoretical knowledge and skills competencies necessary to meet California regulatory requirements for phlebotomy technicians. Emphasis on phlebotomy techniques, equipment, medical/legal considerations, safety, infection control, specimen collection and handling, patient preparation and patient care. Course prepares student to take the CPT-1 examination. CSU
Formerly ERT 104
Offered Spring and Fall semesters

HCT 110. Health Unit Coordinator (4)
Lec-52.5, Lab-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Instruction in core concepts required for certification as health unit coordinator. Health care environments, roles and responsibilities of unit coordinator, ethical issues; medical terminology; communication systems; medical transcription; patient medical record maintenance; processing orders, and professional communications within the health unit. CSU
Offered Fall and Spring semesters

Health Information Technology

HIT 50A. Medical Terminology I (3)
Lec-52.5
Introductory course on the roots, prefixes, suffixes and abbreviations used to form and define medical terminology. The systems based terminology covers anatomy, vocabulary, disease states, diagnostic procedures, laboratory findings and standard pharmaceuticals in systems such as: gastrointestinal, cardiovascular and genitourinary. CSU
Offered Spring and Fall semesters

HIT 50B. Medical Terminology II (2)
Lec-35
Prereq: HIT 50A
Continuing medical terminology course with emphasis on the hematology, lymphatic, immune, musculoskeletal, integumentary, and endocrine systems, and the sense organs. Selected terminology and abbreviations used in specialty areas of psychology, oncology, radiology, and nuclear medicine. CSU
Offered Spring and Fall semesters

HIT 51. Basic Medical Terminology (1)
Lec-17.5
Basic course in medical terminology covering roots, prefixes, suffixes, and abbreviations with emphasis on the gastrointestinal and cardiovascular systems. Recommended for students applying to the medical interpreter program and those exploring entry into health careers. CSU
Offered Spring and Fall semesters

HIT 57. Disease Process (3)
Lec-52.5
Prereq: BIO 106 and HIT 50A
Instructs students in the general principles of disease processes with emphasis on the etiologies and anatomical and physiological manifestations. The class focuses on diagnostic studies, procedures, treatments, and medications utilized in the diagnosing and treatment of diseases. CSU
Offered Spring and Fall semesters

HIT 63. Health Information Systems (3)
Lec-35, Lab-52.5
Prereq: HCT 61 and HIT 50A
Recommended Prep: HCT 67
Instruction in healthcare delivery systems utilized in health information management practice with emphasis on secondary data sources, accreditation and regulatory requirements, alternative healthcare settings, the electronic health record (EHR), and healthcare information systems. CSU
Offered Spring semesters

HIT 65. Organization of Health Data (3)
Lec-35, Lab-52.5
Prereq: Completion of or concurrent enrollment in: HCT 61
Recommended Prep: HCT 67
The study of basic hospital and health statistics including sources, definitions, and use of health data. Computerized and manual methods of collecting, processing, and preparing statistical reports and spreadsheets for health care management, including various methods of presenting data, predictability studies, data mining, calculation of common rates and percentages. CSU
Offered Spring semesters

HIT 72. Legal Aspects of HIM (3)
Lec-35, Lab-52.5
Prereq: HCT 61
Recommended Prep: HCT 67 and HIT 50B
Overview of the fundamentals of law, U. S. legal system, consents, confidentiality, release of information, use of patient records during proceedings and health information practice, ethics, regulatory requirements, compliance, risk management and quality improvement. Emphasis on privacy and security rules from the Health Information Portability and Accountability Act (HIPAA). CSU
Offered Fall semesters

HIT 73A. ICD-10-CM Coding (3)
Lec-52.5
Prereq: BIO 106
Coreq: HIT 50A
Recommended Prep: HCT 61
Provides students with basic International Classification of Disease, 10th Edition, Clinical Modification (ICD-10-CM) coding principles with emphasis on inpatient and outpatient guidelines. The course focuses on format, code conventions, Uniform Hospital Discharge Data Set (UHDDS) guidelines, document sources, code sequencing, and code assignment. CSU
Offered Spring and Fall semesters

HIT 73B. ICD-10-PCS Coding (3)
Lec-35, Lab-52.5
Prereq: HIT 73A
Coreq: HIT 50B
ICD-10-PCS instructs students in the process of building codes in the new procedure coding system. Instruction includes selection of ICD-10-CM and ICD-10-PCS codes for coding cases, regulatory guidelines, an overview of Medical Severity Diagnostic Related Groups (MS-DRGs), and computerized encoders and groupers. CSU
Offered Spring semesters

HIT 75. Organization and Management in Health (3)
Lec-52.5
Recommended Prep: HIT 77A or HCT 82B
Instruction in the introduction to the principles of organization and management functions and theories in various settings, time mana

gement and management tools, communication processes, decision making strategies, recruitment and staffing, performance reviews, disciplinary actions, motivating personnel, budget, and grievances and labor unions. CSU
Offered Fall semesters

HIT 76. CPT Coding (3)
Lec-52.5
Recommended Prep: HIT 50A
The Current procedural terminology (CPT) coding system is used to describe services and procedures provided by health care providers to include evaluation and management, surgery, radiology, pathology, laboratory, and medicine. The class includes an overview of the Health Care Common Procedure Coding System. CSU
Offered Spring and Fall semesters

HIT 77A. Professional Practice I (4)
Lec-52.5, Lab-52.5 P/NP only
Prereq: Completion of or concurrent enrollment in: HIT 73A
Coreq: HIT 77B
Recommended Prep: HIT 63 and HIT 65
Provides students with supervised professional practice experience preparation, explores and refines the knowledge and skills for a health Information management student, provides practice reviews for national exam and develops professionalism. This preparation is the first course of a two-part series.The second course is the professional practice experience. CSU
Offered Spring semesters

HIT 77B. Professional Practice II (2)
Work-120, field trips P/NP only
Prereq: Completion of or concurrent enrollment in: HIT 73A
Coreq: HIT 77A
Provide students with advanced, hands-on specialty professional practice experience in performing specific activities in the HIM setting. Emphasis on legal aspects, quality and risk management, utilization review, management and supervision, CPT and ICD coding, DRG assignment, healthcare statistics and electronic health records. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
Recommended to be taken in student's last semester
Offered Spring semesters

HIT 79. Healthcare Quality and Reimbursement (4)
Lec-52.5, Lab-52.5
Prereq: HIT 50B
Coreq: HIT 73A
Recommended Prep: Completion of or concurrent enrollment in: HIT 63; HIT 76
This course explores healthcare quality and emerging pay-for-performance reimbursement methodologies. Analyzes the complexities of quality, the measurement and improvement of quality, and explores measures from a variety of organizations and comparison sites. Introduction to key theories and concepts, models of quality improvement as the basis for improved outcomes and reimbursement. CSU
Formerly HIT 74 and HIT 78 which have been combined into HIT 79
Offered Spring semesters

HIT 80. Registered Health Information Technician Exam Preparation (1)
Lec-17.5 P/NP only
Prereq: Completion of AS in Health Information Technology
This is an in-depth review of Health Information Management principles to prepare Health Information Technology (HIT) graduates for the American Health Information Management Association (AHIMA) National Registered Health Information Technician (RHIT) examination. The focus is on reviewing materials, test-taking and study strategy. Students use a variety of resources to prepare for the national exam. It is recommended that students take this course within six months of sitting for the RHIT exam. CSU
Offered Summer semesters

Medical Assisting

MED 49. Clinical Procedures (5.5)
Lec-87.5, Lab-35
Prereq: BIO 106 and HIT 50A
Recommended Prep: Elementary Algebra or higher
Instruction in clinical procedures to include aseptic techniques, sterilization and maintenance of equipment, instruction in and collection of lab specimens, patient preparation for specific examinations, selection of medical instruments for procedures, administration of injections, and electrocardiograms. Charting patient history, vital signs and progress notes in medical records. Instruction in medical calculations, prescriptions, and commonly prescribed medications. CSU
Offered Spring and Fall semesters

MED 55. The Electronic Health Record (3)
Lec-35, Lab-52.5
Recommended Prep: HIT 50A
Structural components of the interactive electronic health record (EHR) and how it supports communication and continuity of care. Perspective on how the EHR impacts work and workflow. Practical hands-on experience utilizing an educational version of an EHR to manage patient visit information, such as examination/assessment notes and treatment plans. CSU
Offered Spring and Fall semesters

MED 56. Administrative Procedures (3.5)
Lec-52.5, Lab-35
Recommended Prep: HCT 61 and (CMST 6 or BSEN 74 or readiness for college-level English)
Instruction in the U.S. health care environment; medicolegal and ethical responsibilities; the art of communication; telephone, reception, appointment scheduling, medical record management techniques; written correspondence; processing mail and telecommunications; office managerial responsibilities, seeking employment, and future health care trends. CSU
Offered Fall semesters

MED 62. Communication and Professionalism in Health Care (2)
Lec-35
Recommended Prep: CMST 6 or BSEN 74 or ESL 188 or readiness for college-level English
Communication and professionalism play an increasingly important role in the success of health care professionals today. Effective communication will be explored from both personal and professional points of view. Critical thinking skills and case studies will be emphasized. This course will also explore the roles of health care professionals as the patient coaches and advocates of today. CSU
Offered Spring semesters

MED 70. Medical Insurance Billing (2)
Lec-35, Lab-17.5
Prereq: Completion of or concurrent enrollment in: HIT 76
Recommended Prep: Completion of or concurrent enrollment in: MED 71
A comprehensive and intensive study of the financial activities of medical insurance billing. The course reviews medical terminology as it relates to insurance claims, utilizes procedure and diagnostic coding, and provides practice in completing various insurance claim forms to include commercial, Medicare, Medicaid, worker's compensation, and disability insurance, and managed care claims. CSU
Offered Spring semesters

MED 71. Electronic Management of Financial Medical Records (2)
Lec-17.5, Lab-52.5
Recommended Prep: Completion of or concurrent enrollment in: HIT 76 and MED 70
An introduction to medical office financial applications. Practice with management software to create new accounts, post charges, payments, and adjustments to accounts, create patient statements and insurance claim forms, and print financial activity reports. Learn banking, collection, and accounts payable procedures, chart abstraction, and physician queries. CSU
Offered Spring semesters

MED 72. Advanced Medical Insurance Billing (2)
Lec-35, Lab-17.5
Prereq: Completion of or concurrent enrollment in: HIT 76
HIT 73A
An advanced insurance billing course that concentrates on commercial, Medicare, and Medicaid insurance claims. The course focuses on specialty billing to include internal medicine, cardiology, general surgery, dermatology, neurology, OB/GYN, and orthopedics. Learn to complete primary and secondary insurance billing and appeal denied claims. CSU
Offered Fall semesters

MED 73. Advanced Medical Billing (1.5)
Lec-17.5, Lab-35
Prereq: MED 71
An advanced medical billing course in which students will manage and edit patient billing records, analyze financial activities, examine insurance company policies and patient benefits, and compare and contrast the various medical billing credentials. CSU
Offered Fall semesters

Pharmacy Technician

Students must be accepted into the Pharmacy Technician Program to register in PHTC 101 and 102.

PHTC 101. Pharmacy Technician I - Theory (9)
Lec-157.5
Prereq: Intermediate algebra or higher
Coreq: PHTC 102
Recommended Prep: Readiness for college-level English or ESL 188
Prepares students to work as technicians in pharmacies under the direct supervision of a pharmacist. Drug classification and indications; pharmacy laws, rules and regulations; storage, inventory, and record keeping of drugs; drug dose calculations and pharmacy math; basic anatomy and physiology; medical terminology, abbreviations, and symbols used in prescriptions. CSU
Offered Fall semesters

PHTC 102. Pharmacy Technician I - Clinical (7)
Lec-70, Lab-157.5
Coreq: PHTC 101
Application of pharmaceutical knowledge, pharmacy law, pharmaceutical calculations, and terminology to a lab and clinical setting, as well as work with storage and labeling of drug requirements, sterile and non-sterile products preparation, and computerized record keeping. CSU
Offered Fall semesters

PHTC 102A. Health Care Mathematics (2)
Lec-36
Introduction to mathematical calculations required for health care professionals. Emphasis on the use of ratio and proportion method, percentage and basic algebraic equations to determine drug dosing. Topics include various measurement systems for calculating oral and parenteral drug dosages. CSU
Offered only in Summer semesters

PHTC 103. Pharmacy Technician II - Theory (9)
Lec-157.5
Prereq: PHTC 101
Advanced drug classification, mechanism of action, indications, and side effects; preparation of intravenous additives and chemotherapeutic agents; record keeping of legend and controlled drugs; anatomy, physiology, medical terminology, pharmacology, and pharmaceutical calculations, and pharmacy law as they pertain to pharmacy practice. CSU
Offered Spring semesters

PHTC 104. Pharmacy Technician II - Clinical (5)
Lec-35, Lab-164
Prereq: PHTC 102
Coreq: PHTC 103
Application of advanced drug preparation skills to various clinical settings as well as maintaining inventory, storage requirements, drug selection, preparation and filling of prescriptions. Emphasis on quality assurance and the use of automated technology as related to preparation of IV admixtures and chemotherapeutic agents. CSU
Offered Spring semesters

PHTC 104A. Pharmacy Technician Clinical Preparation (5)
Lec-87.5
Prereq: PHTC 101; PHTC 102
Coreq: PHTC 103; PHTC 104B
Application of advanced drug preparation skills to various clinical settings as well as maintaining inventory, storage requirements, drug selection, preparation and filling of prescriptions. Emphasis on quality assurance and the use of automated technology as related to preparation of IV admixtures and chemotherapeutic agents. CSU
Offered Spring semesters

PHTC 104B. Pharmacy Technician Externship (4)
Work-240
Prereq: PHTC 101 and PHTC 102
Coreq: PHTC 103 and PHTC 104A
A supervised work experience in developing a professional relationship with patients, pharmacy staff, and other health care personnel in a retail pharmacy and hospital setting focusing on professional attitudes and work-related entry-level competencies. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU
A fee of $6 for a nametag will be assessed to the student account.
Offered Spring semesters

Health Education

Office: MUB 353
Phone Number: (415) 239-3220
Web Site: *www.ccsf.edu/hlthed*
Formerly Health Science

Announcement of Curricula

General Information

The Health Education Department is committed to promoting individual, family and community health, advocating for social justice and the elimination of health inequities.

The Department offers a wide range of courses and career and technical education training programs designed to:

- Provide students with academic training in the interdisciplinary field of Public Health.
- Meet associate degree and transfer requirements.
- Train students for careers in Public Health.
- Diversify the health work force.

To this end, we offer a Health Education Major, an Associate Degree for Transfer in Public Health Sciences, an Associate Degree for Transfer in Nutrition and Dietetics and certificates in the following areas for students interested in health-related careers:

- **Addiction and Recovery Counseling**
- **Community Health Worker**,
- **Community Mental Health**
- **Health Care Interpreter**
- **Peer Health Educator**

Nutrition and Dietetics Major (AS-T)

The Associate in Science in Nutrition and Dietetics for Transfer degree (AS-T in Nutrition and Dietetics) prepares students for success in a baccalaureate degree in Nutrition and Dietetics with the lower-division coursework required to transfer into the CSU system. This degree prepares students for careers in the field of nutrition and dietetics, and pathways to become a Registered Dietitian Nutritionist (RDN), working in clinical settings such as hospitals, HMOs, private practice or other health care facilities; or in community and public health settings, academia, research; or other non-traditional settings such as in the food and nutrition industry, business, journalism, sports nutrition, or corporate wellness programs.

The AS-T in Nutrition and Dietetics prepares students to transfer to the California State University (CSU) System in the field of nutrition and dietetics, and other health-related majors. Students who earn this degree and meet the CSU minimum eligibility requirements are guaranteed admission to a CSU, but not to a particular campus or major. Students who wish to earn the AS-T must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU General Education (GE) curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

Learning Outcomes

Upon completion of this program, students will be able to:

- Integrate scientific concepts of biology and chemistry related to the functioning of the nutrients in the human body.
- Apply knowledge of metabolism and nutrient functions, food sources, and physiologic systems to communicate evidence-based nutrition information.
- Analyze the relationship between diet, lifestyle, and health outcomes within the framework of the social determinants of health.

The Associate in Science in Nutrition and Dietetics for Transfer degree (AS-T in Nutrition and Dietetics) is open to all students who are admitted to City College of San Francisco and have satisfied any prerequisites required for classes listed in the major.

The minimum time to completion is 4 semesters. Completion time will vary based on student preparation and number of units completed each semester.

Courses Required for the AS-T in Nutrition and Dietetics

Course	Units
Required Core:	
BIO 134 Introduction to Nutrition for Health Sciences	3.0
PSYC 1 General Psychology	3.0
CHEM 101A General College Chemistry	6.0
and CHEM 101B General College Chemistry	5.0
BIO 120 Introduction to Microbiology	4.0
LIST A: Select one course	
CHEM 208A Chemical Structure and Reactivity I	4.0
or CHEM 212A Organic Chemistry	6.0
BIO 108 General Human Anatomy	4.0
or BIO 111 Human Physiology	5.0
or BIO 112 Introduction to Human Physiology	4.0
ECON 5 Introductory Statistics for Economics, Business and Social Sciences	5.0
or LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
or MATH 80 Probability and Statistics	5.0
or PSYC 5 Statistics for Behavioral Sciences	5.0
LIST B: Select one course (or any science course from LIST A not already completed)	
ENVS 31 Introduction to Environmental Science	3.0
CHEM 40 Introduction to Chemical Principles	5.0
SOC 1 Introduction to Sociology	3.0
SOC 35 Sex, Marriage, and Family Relationships	3.0
ANTH 3 Introduction to Social and Cultural Anthropology	3.0
ECON 1 Principles of Macroeconomics	3.0
ECON 3 Principles of Microeconomics	3.0
CDEV 53 Child Growth and Development	3.0
Total:	**28.0 – 32.0**

Public Health Science Major (AS-T)

The Associate in Science in Public Health Science for Transfer degree is designed to provide students with sufficient understanding of public health theories, concepts and applications to succeed in upper division coursework in public health and health-related majors at a four-year college or university. This degree emphasizes a social justice framework, with a focus on the social determinants of health and improving the health of diverse communities. The major in Public Health prepares students for careers in public health and related health professions in settings including community based organizations, health departments, local state and federal agencies, social service organizations, healthcare organizations, educational institutions and research organizations.

The Public Health Science Associate in Science Degree for Transfer (AS-T) prepares students to transfer to the California State University (CSU) System in the field of Public Health and other health-related majors. Students who earn this degree and meet the CSU minimum eligibility requirements are guaranteed admission to a CSU, but not to a particular campus or major. Students who wish to earn the AS-T must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU General Education (GE) curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply a public health equity framework to support the health and well-being of diverse communities.
- Access, interpret, and analyze health data and evidence-based research to understand and improve community health.
- Integrate principles of biology and chemistry into a public health framework.

The Public Health Science Associate of Sciences Degree for Transfer (AS-T) is open to all students who are admitted to City College of San Francisco and have satisfied any prerequisites required for classes listed in the major.

For students who begin this AS-T at transfer-level math and English, the minimum time to completion is 4 semesters. Completion time will vary based on student preparation and number of units completed each semester.

Courses Required for the AS-T in Public Health Science

Course	Units
Required core courses:	
MATH 80 Probability and Statistics	5.0
HLTH 54 Introduction to Public Health	3.0
HLTH 53 Personal and Community Health	3.0
CHEM 40 Introduction to Chemical Principles	5.0
PSYC 1 General Psychology	3.0
BIO 108 General Human Anatomy	4.0
Choose one of the following required Biology courses:	
BIO 9 Human Biology	4.0
BIO 11 Science of Living Organisms	4.0
Choose one of the following required Physiology courses:	
BIO 112 Introduction to Human Physiology	4.0
BIO 111 Human Physiology	5.0
Choose one of the following courses:	
ECON 3 Principles of Microeconomics	3.0
ECON 1 Principles of Macroeconomics	3.0
SOC 1 Introduction to Sociology	3.0
IDST 17 Human Sexuality	3.0
HLTH 221 Health and Social Justice	3.0
HLTH 30 Drugs, Health, and Society	3.0
BIO 132 Introduction to Nutrition	3.0
Total:	**34.0 – 35.0**

Health Education Major (AS)

The Health Education major is designed to prepare students for transfer to the California State University (CSU) system for further study in health education, public health and related academic fields. The course work includes personal and community health topics, an analysis of the major determinants of health from an equity perspective, and the application of critical thinking and quantitative reasoning to contemporary public health challenges. The goal of the program is to develop a diverse student body to address the health needs of our communities. With a Bachelor's Degree in Health Education, students are prepared for careers within a wide range of public and private employers.

The Associate of Science degree program in Health Education includes core courses related to public health and health education and a selection of electives from health and health-related subjects. The course of study is designed to give flexibility to students who want to pursue specific areas of interest within health. The degree may be combined with any of the programs or certificates offered by the Department.

Core Courses in the major. Students are required to take four core courses that help to satisfy transfer requirements to local universities.

Electives in the major. Students majoring in Health Education are required to take approved electives described below. Requirements for Bachelor's Degrees in the Health Education or Health Science field vary widely. Students are advised to check the specific major requirements for the institution they plan to transfer to.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze factors that shape health and illness of individuals and communities.
- Examine the causes and consequences of health inequities and community resilience
- Access, interpret, and analyze research to understand and improve community health.
- Evaluate strategies to improve health.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Health Education

Course	Units
Required	
HLTH 54 Introduction to Public Health	3.0
Choose one of the following options	
HLTH 53 Personal and Community Health	3.0
HLTH 27 Men's Health	3.0
HLTH 25 Women's Health	3.0
Choose one of the following options	
BIO 9 Human Biology	4.0
BIO 11 Science of Living Organisms	4.0
Choose one of the following options	
MATH 80 Probability and Statistics	5.0
PSYC 5 Statistics for Behavioral Sciences	5.0
ECON 5 Introductory Statistics for Economics, Business and Social Sciences	5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
Choose six units from the following	
HLTH 10 Health and Aging	3.0
HLTH 30 Drugs, Health, and Society	3.0

HLTH 38 Trauma, Resilience and Recovery	3.0
HLTH 48 Violence as a Public Health Issue	3.0
HLTH 56 Politics of Food and Health	3.0
HLTH 64 Health Education Training: Skills and Practice	3.0
HLTH 65 Youth Development & Leadership	3.0
HLTH 66 Chronic Conditions Management	3.0
HLTH 67 HIV and Hepatitis Navigation Skills	3.0
HLTH 80C Interpreting in Healthcare I	6.0
HLTH 91H Elder Abuse Prevention	1.0
HLTH 91C Hepatitis ABCs	1.0
HLTH 95 Transgender Health: Working with Clients and Communities	1.0
HLTH 97 Stress and Resilience	3.0
HLTH 102 Helping Relationships: Recovery and Wellness	3.0
HLTH 110 Health Impacts of Incarceration	3.0
HLTH 116 Conflict Resolution Skills in Health	1.0
HLTH 120 Educational Justice and Health Equity	3.0
HLTH 221 Health and Social Justice	3.0
HLTH 231 Healthy Cities and Communities	3.0
BIO 108 General Human Anatomy	4.0
BIO 111 Human Physiology	5.0
BIO 120 Introduction to Microbiology	4.0
BIO 134 Introduction to Nutrition for Health Sciences	3.0
IDST 17 Human Sexuality	3.0
LBCS 81 Organizing for Economic and Social Justice	3.0
PSYC 21 Lifespan Development	3.0
Total:	**21.0**

Below you will find specific information for each certificate program.

Addiction and Recovery Counseling Certificate

The Certificate in Addiction and Recovery Counseling is designed to prepare individuals for work in alcohol, drug and other addictions counseling. The program emphasizes a public health approach that addresses community, social, and individual level factors in addiction while providing certificate candidates with a strong background in treatment modalities, health education and prevention, professional and ethical responsibilities, and client advocacy. Courses are sequenced based on knowledge and skills that are acquired as students move through the program.

The Addiction and Recovery Counseling Certificate is accredited by an external accreditation agency, California Consortium of Addiction Programs and Professionals (CCAPP).

Learning Outcomes

Upon completion of this program, students will be able to:

- Distinguish the ethical skills necessary for professional employment as an addiction, treatment and recovery counselor in health care settings
- Summarize the content and skills necessary for counselor certification in the addiction and recovery field
- Synthesize client-centered counseling skills, harm reduction, counseling concepts, and cultural humility for working with communities and diverse populations
- Discuss and evaluate the impact research has in the substance use and addiction and recovery counseling field

Admission. Admission to the program is based on the successful completion of the prerequisite course HLTH 100, Introduction to Addiction & Recovery Counseling (1 unit).

Requirements for the Certificate of Achievement. The certificate requires the completion of 26.5 units. Up to 6 units may be taken outside of City College of San Francisco to satisfy the requirements. The internship component (250 hours) must be completed through City College of San Francisco.

Internship. Students must complete internship coursework and fieldwork with a state-licensed substance abuse services agency. Preparation and supervision for the field work experience will be provided in HLTH 79 and HLTH 79W.

The minimum time to completion for this certificate is 4 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Addiction and Recovery Counseling

Course	Units
Required	
HLTH 30 Drugs, Health, and Society	3.0
HLTH 70 Physiological Effects of Addiction	3.0
HLTH 73 Case Management/Individual Intervention	3.0
HLTH 79 Professional Skills for Addiction and Recovery Counselors	3.0
HLTH 90B Harm Reduction and Health	0.5
HLTH 91C Hepatitis ABCs	1.0
HLTH 49 Ethics and Counseling in Addiction and Recovery	3.0
HLTH 98 Treatment Modalities in Addiction Recovery	3.0
HLTH 99 Group Counseling for Treatment and Recovery	3.0
Required fieldwork course:	
4 units of fieldwork required.	
HLTH 79W Addiction and Recovery Counseling Work Experience	1.0 – 4.0
Total:	**26.5**

Community Health Worker Certificate

Community Health Workers (CHW) are employed by public health, health care, and social services agencies. CHWs provide client and community-centered health education, counseling, and care management services. CHWs serve as a two-way bridge between communities and key health and social resources. They play a vital role in supporting low-income and other vulnerable clients to access culturally relevant services and advocate for health equity. All students will be trained in core competencies essential for success in the field, and have the opportunity to select courses that address specific health issues and communities. As part of their education, students will complete a semester-long internship with a local employer.

The San Francisco Department of Public Health accepts the Certificate of Achievement to satisfy six out of twelve months of experience that is required as minimum qualification for hiring as a Health Worker 1-3.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and evaluate public health concepts and information for health promotion.
- Assess and integrate professional skills necessary for employment in the CHW field.

- Evaluate and implement entry-level proficiency in CHW core competencies for working effectively with diverse individuals, groups, and communities.

Admission to the program is based on:

1) The completion of HLTH 59 "Introduction to Community Health Work" with a grade of "C" or better
or

2) Documented successful experience as a Community Health Worker and submission of a completed program application by the deadline.

For more information, go to ***www.ccsf.edu/chw***.

Requirements for the Certificate of Achievement

To receive the Certificate of Achievement, in addition to the general requirements for all certificates, the following must be satisfied:

- Successful completion of the 14 units of required courses and the 3 units of electives. Students are encouraged to take additional electives to support their career goals and pursue their interests more deeply.
- Successful completion of 120-150 internship hours during HLTH 203W.
- Any student planning to take HLTH 203W 12 months or more after completing HLTH 201, is strongly advised to meet with the CHW program coordinator and complete the required internship paperwork before H203W begins.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester. Due to the nature of the work and the ongoing changes in the profession, students have up to three years to complete their certificate from enrollment in HLTH 201.

Courses Required for the Certificate of Achievement in Community Health Worker

Course	Units
Required	
HLTH 201 CHW Principles & Practice 1	5.0
HLTH 202 CHW Principles & Practice 2	5.0
HLTH 203 Professional Skills for Community Health Workers	2.0
HLTH 203W CHW Internship Placement	2.0
Choose 3 units from the following	
HLTH 10 Health and Aging	3.0
HLTH 64 Health Education Training: Skills and Practice	3.0
HLTH 65 Youth Development & Leadership	3.0
HLTH 66 Chronic Conditions Management	3.0
HLTH 67 HIV and Hepatitis Navigation Skills	3.0
HLTH 85 Community Nutrition and Education	3.0
HLTH 91C Hepatitis ABCs	1.0
HLTH 91H Elder Abuse Prevention	1.0
HLTH 91J Advancing Language Justice for Health	1.0
HLTH 95 Transgender Health: Working with Clients and Communities	1.0
HLTH 110 Health Impacts of Incarceration	3.0
HLTH 116 Conflict Resolution Skills in Health	1.0
HLTH 231 Healthy Cities and Communities	3.0
Total:	**17.0**

Community Mental Health Worker Certificate

The curriculum for the Community Mental Health Worker Certificate of Achievement is based on the wellness and recovery model in mental health. The program trains a diverse group of individuals to provide culturally affirming mental health and wellness and recovery services in San Francisco. The program engages consumers of mental health services, their family members, and other interested individuals and communities. It is comprised of courses that promote the development of skills needed to become gainfully employed as a mental health worker and enhance the knowledge base of those already employed. As part of their education, students complete an internship with a local agency serving mental health consumers.

Learning Outcomes

Upon completion of this program, students will be able to:

- Evaluate information on wellness and recovery promotion.
- Formulate wellness and recovery strategies to work with members of diverse communities.
- Demonstrate proficiency in entry-level skills including care brokerage, advocacy, outreach, systems navigation, documentation, and behavioral health coaching and mental health counseling.
- Perform behavioral, ethical, and professional skills necessary for employment in the mental health field.

Requirements for the Certificate of Achievement

Internship. Students must complete a semester long internship of at least 120 hours with an agency serving mental health consumers. Preparation and supervision for the field work experience will be provided in HLTH 104 and HLTH 105.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on the semester in which students enter the program, student preparation, and number of units completed per semester.

Courses Required for the Certificate of Achievement in Community Mental Health Worker

Course	Units
Required	
HLTH 88 Family Systems	3.0
HLTH 102 Helping Relationships: Recovery and Wellness	3.0
HLTH 103 Community and Group Forums	3.0
HLTH 104 Internship Preparation and Professional Conduct in Mental Health	3.0
HLTH 105 Professional Skills for Community Mental Health Workers	2.0
HLTH 105W CMHC Internship Placement	2.0
Total:	**16.0**

Healthcare Interpreting Certificate

The Healthcare Interpreting (HCI) Certificate of Achievement program is designed to prepare multilingual and multicultural individuals to serve as professional interpreters and as dual-role interpreters within their regular scope of practice. The goal of the program is to develop linguistically and culturally competent interpreters and qualified bilingual health professionals to function effectively and efficiently in a variety of settings, serving culturally and linguistically diverse communities.

Through academic preparation, skills practice labs, and internship in the field, students learn social, cultural, medical, and linguistic skills that support the health and well-being of patients and clients, and of multidisciplinary teams at worksites. Professional healthcare interpreters and qualified bilingual health professionals are sought after by

a variety of employers, such as health systems, educational systems, marketing and research firms, and freelance agencies. This program meets the state and national standards, ethics, protocols and practices, and prepares students for national healthcare interpreter certifications.

Up to four different languages are offered each year, depending on the number and diversity of the applicant pool. Upon completion of the certificate and the HLTH 84 course, students would have completed a minimum of 375 hours of education and training.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret consecutively and simultaneously in English and language of service (LOS) with accuracy, appropriate pace, and completeness, conveying the tone, spirit, and meaning of the message.
- Apply appropriate interpreting skills when navigating social, cultural, and linguistic challenges in health-related encounters.
- Apply healthcare interpreting standards, protocols, and ethical decision-making.
- Exhibit the professionalism and job readiness needed in various health settings.

Admission requirements

1. Proficiency in English and an additional language.
2. Successful completion of HLTH 84, Introduction to Healthcare Interpreting, which includes a language proficiency evaluation (see below for language proficiency criteria).
3. Assignment by program coordinator to a specific language of service (LOS) cohort with a proposed semester of enrollment. Students who are multilingual must participate in their strongest LOS.
4. When space is limited in a language cohort, priority is given to those who have successfully completed at least one of the following recommended courses: Human Anatomy, Human Physiology, or Medical Terminology.

Language Proficiency

Students' language proficiency is evaluated using a rubric through conversation and other assessment activities with a language expert. Language proficiency must be at Level 4 or higher in both English and language of service (LOS) to meet HCI program admission requirements.

Level 1: Very poor skills. Little or no fluency. Does not understand or follow the conversation.

Level 2: Poor to fair skills. Very heavy accent and problems with pronunciation. Hard to understand without much effort. Limited vocabulary and grammatical errors.

Level 3: Basic conversational skills only. Fairly simple but clear vocabulary. Understandable pronunciation and accent, but some difficulty with certain sounds. Some grammatical errors. Difficulty with fluency. Limited understanding of speaker.

Level 4: Very good skills. May have an accent but is completely understandable in the language. No or very minor grammatical errors. Very good conversational fluency with few pauses. Understands the speaker easily.

Level 5: Excellent skills. Extensive vocabulary. Unobtrusive accent. Able to express abstract thoughts. Words flow fluently with no pauses or stutters. Understands the speaker completely.

Requirements for the Certificate of Achievement

All courses must be completed within two years of successfully completing HLTH 80C and HLTH 80L. Due to language cohort availability, students who do not successfully complete HLTH 80C or HLTH 80L must meet with the program coordinator to determine the appropriate timing to re-enroll in the program courses.

Internship

Students must complete a 60-hour unpaid internship or a 75-hour paid internship in HLTH 300. The HCI program will arrange and/or approve placements.

Upon award of the Healthcare Interpreting Certificate, students are encouraged to take HLTH 91N Coaching Healthcare Interpreters in order to improve their skills as lead-interpreters in hospital settings or be able to coach emerging interpreters.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and the number of classes completed per semester.

For more information, call the program coordinator at (415) 239-3319 or visit the HCI program website.

Courses Required for the Certificate of Achievement in Healthcare Interpreting

Course	Units
Required	
HLTH 80C Interpreting in Healthcare I	6.0
HLTH 80L Interpreting Lab I	0.5
HLTH 81C Interpreting in Healthcare II	6.0
HLTH 81L Interpreting Lab II	0.5
HLTH 82 Professional Skills for Healthcare Interpreters	3.0
HLTH 300 Work Experience in Health and Social Services	1.0 – 4.0
Total:	**17.0 – 20.0**

Peer Health Educator Certificate

The Peer Health Educator Certificate is designed for students who are interested in entering the health field and supporting the health of their communities. The coursework includes health topics that most impact young people, including personal wellness, harm reduction, healthy relationships and sexual health, along with electives that focus on mental health, health and social justice, food justice, substance use, and violence prevention. The certificate also provides skills in leadership development, facilitation and conflict resolution. The certificate is based on public health principles from an equity perspective to support students in working within their own diverse communities.

Learning Outcomes

Upon completion of this program, students will be able to:

- Integrate public health and equity principles to promote youth health and well-being
- Develop advocacy and facilitation skills for youth in diverse communities
- Assess and integrate skills necessary for entry level employment in youth development and health-related fields

Suggested sequence:

- First semester HLTH 33, HLTH 64 (offered fall semesters), HLTH 90B, Elective

- Second semester HLTH 65 (offered spring semesters), HLTH 116, HLTH 300, WGST 55.

The minimum time for completion of this certificate is two 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Peer Health Educator

Course	Units
Required	
HLTH 33 Introduction to Health and Wellness	2.0
HLTH 64 Health Education Training: Skills and Practice	3.0
HLTH 65 Youth Development & Leadership	3.0
HLTH 90B Harm Reduction and Health	0.5
HLTH 116 Conflict Resolution Skills in Health	1.0
HLTH 300 Work Experience in Health and Social Services	1.0
WGST 55 Ending Sexual Violence: Peer Education	3.0
Choose 3 units from the following	
HLTH 30 Drugs, Health, and Society	3.0
HLTH 48 Violence as a Public Health Issue	3.0
HLTH 56 Politics of Food and Health	3.0
HLTH 102 Helping Relationships: Recovery and Wellness	3.0
HLTH 221 Health and Social Justice	3.0
Total:	**16.5**

Sexual Health Educator Certificate*

*See Women's and Gender Studies

Trauma Prevention and Recovery Certificate*

*See Interdisciplinary Studies

Child Development: Youth Worker Certificate*

*See Child Development and Family Studies

Announcement of Courses

Credit, Degree Applicable Courses:

HLTH 10. Health and Aging (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Introduction to gerontology for students pursuing careers in the aging field and those who will work with older adults in various work settings. Employs a multidisciplinary perspective, incorporating biology, psychology, sociology, and public health approaches and combining gerontology theory, research, and practice with social justice and multicultural perspectives. UC/CSU

HLTH 25. Women's Health (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Explores the social determinants and issues related to women's health on an individual and community level. Emphasis on evaluation of health resources, behavior change process, and role of risk factors and prevention. UC/CSU

HLTH 27. Men's Health (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Exploration of the social determinants and issues related to men's health on the individual and community levels. Emphasis on evaluation of health resources, behavior change process, and role of risk factors and prevention. UC/CSU

HLTH 30. Drugs, Health, and Society (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
This course offers an examination of the history of alcohol, tobacco, and drug use. From a public health perspective, students will analyze drug policies and their impact on the health of culturally diverse, marginalized, and low income communities. Students will also develop skills to advocate for policy change. CSU
C-ID PHS 103

HLTH 33. Introduction to Health and Wellness (2)
Lec-35 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to the causes and consequences of illness and the promotion of individual, family and community health based on research in public health, social and behavioral sciences. Examination of the causes, consequences, available treatments and strategies for prevention of major health conditions across the life cycle. UC/CSU

HLTH 38. Trauma, Resilience and Recovery (3)
Lec-52.5 P/NP available
This course is designed for students in the health, justice, or social service fields. It includes an examination of types of trauma, an analysis of the ways trauma affects survivors, an exploration of building resiliency, various approaches to recovery, and person-centered skills to support recovery. CSU
Formerly Trauma Response and Recovery
Offered Spring semesters

HLTH 48. Violence as a Public Health Issue (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Public health perspectives on diverse types of violence, with a focus on trends over time, causes and risk factors of violence, and resiliency, in order to develop strategies for violence prevention. Trauma and other consequences of violence will be examined. Community-based advocacy skills for violence prevention are introduced and practiced in this course. CSU
Formerly Violence as a Public Health Issue: Prevention Strategies
Offered Fall semesters

HLTH 49. Ethics and Counseling in Addiction and Recovery (3)
Lec-52.5
Prereq: HLTH 100
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to ethical and legal issues in counseling people with substance use disorders. Develops frameworks for addressing ethical and legal issues that include a variety of socio-cultural models. Develops understanding of laws, code of ethics, and client rights. The

relationship between personal values and professional behavior will be explored as well as an Introduction to client centered counseling skills and practice. CSU

HLTH 52. Critical Perspectives in Global Health (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Explores the primary determinants of global health, inequalities in health status between nations, and current challenges, controversies and public policy priorities. UC/CSU

HLTH 53. Personal and Community Health (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Critical analysis of the causes and contributors to individual and community health and illness based on public health and other social and behavioral sciences. Exploration of physical, mental, social and political aspects of health along with causes, consequences, prevention strategies and treatments for major health conditions across the life cycle. UC/CSU

HLTH 54. Introduction to Public Health (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to public health approaches for the prevention and control of disease and injury, drawn from epidemiology, health policy, behavioral health, environmental health, community organizing, maternal and child health and other public health disciplines. Examination of contemporary health challenges with an emphasis on addressing social determinants to improve health for all. UC/CSU
C-ID PHS 101

HLTH 56. Politics of Food and Health (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course critiques the United States food system and policies through a health equity framework exploring topics including nutritional guidelines, dieting and weight loss industry, food assistance programs, food security, legislation, industrial food production, the role of agriculture and corporations, and alternative food systems. UC/CSU
Offered on occasion

HLTH 59. Intro to the Community Health Worker Field (1)
Lec-17.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
An introduction to the roles and core competencies of Community Health Workers (CHW) and the requirements of the CCSF CHW Certificate Program. Students will learn key public health concepts and models for providing client-centered services, and assess their readiness and interest in applying to the CHW Certificate Program. CSU

HLTH 64. Health Education Training: Skills and Practice (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Principles and practice in the planning, facilitation and evaluation of public health education and trainings. This course covers basic theories and participatory training methods, with a focus on meeting the needs of diverse communities and adult learners. CSU
Offered Fall semesters

HLTH 65. Youth Development & Leadership (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course is an introduction to the principles of youth development and significant health issues affecting today's youth. The course focuses on strategies and skills to engage and involve young people in their own decision-making and advocacy. CSU
Offered on occasion

HLTH 66. Chronic Conditions Management (3)
Lec-52.5 P/NP available
Prepares front-line health and public health workers to support patients in the self-management of chronic health conditions through the use of client-centered concepts and skills. CSU

HLTH 67. HIV and Hepatitis Navigation Skills (3)
Lec-52.5 P/NP available
Prepares frontline workers to provide navigation services to those at risk for and living with HIV and hepatitis diseases and common co-occurring conditions informed by a public health and social justice framework. CSU
Offered on occasion

HLTH 70. Physiological Effects of Addiction (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
This course provides an overview of basic physiology and pharmacology including how chemicals are administered and metabolized, The systemic, behavioral, and psychological effects of addiction, along with the latest clinical research and evidence-based treatment practices, are reviewed. CSU

HLTH 73. Case Management/Individual Intervention (3)
Lec-52.5
Prereq: HLTH 98
This course offers an introduction to case management and documentation. Topics include intake and assessment, record management and documentation, treatment planning, ethics and professional skills, clients? rights, and confidentiality. This course prepares students to work in the field of substance use and community behavioral health services. CSU
Offered Spring semesters

HLTH 79. Professional Skills for Addiction and Recovery Counselors (3)
Lec-52.5
Prereq: HLTH 73 and HLTH 99
Coreq: HLTH 79W
This course supports the HLTH 79W fieldwork class and allows students to make a connection between core course material and the workplace. Throughout this course, students engage in critical analysis of their strengths and weaknesses as interns and as potential professionals in the field. Key concepts and skills include establishing professional boundaries, using clinical supervision and seeking employment strategies. CSU
Formerly HLTH 79A and HLTH 79B
Offered Fall semesters

HLTH 79W. Addiction and Recovery Counseling Work Experience (1-4)
Work-60-250 P/NP available
Prereq: Approval of Health Education Department; Completion of or concurrent enrollment in: HLTH 79
Repeat: Repeated up to 4.00 Units
Students complete an internship with local employers to gain meaningful work experience and earn credit towards their Addiction and Recovery Counseling certificate. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU

HLTH 80C. Interpreting in Healthcare I (6)
Lec-105, field trips P/NP available
Prereq: HLTH 84
Recommended Prep: Readiness for college-level English or ESL 188
Training for bilingual individuals to develop awareness, knowledge, and skills necessary for effective language interpretation in various settings. Emphasis on the standards of practice of a healthcare interpreter, active listening, memory development, basic knowledge of common medical conditions, treatments, diagnostics and procedures, cultural and linguistic competency in the art of interpretation. CSU
HLTH 80C + HLTH 80L = HLTH 80
Offered Fall semesters

HLTH 80L. Interpreting Lab I (.5)
Lab-27 P/NP available
Prereq: Completion of or concurrent enrollment in: HLTH 80C or Approval of the Health Education Department
Practice interpreting skills, standards, and protocols, with a focus on active listening, linguistic equivalency, vocabulary development, and managing the flow of interpreting sessions, such as maintaining pace, ensuring transparency, facilitating understanding and communication, and respecting communicative autonomy of all parties in health care and other settings. CSU
Offered Fall semesters

HLTH 81C. Interpreting in Healthcare II (6)
Lec-105, field trips P/NP available
Prereq: HLTH 80C or approval of the Health Education Department
Advanced training for bilingual individuals as integral members of healthcare teams, bridging linguistic and cultural gaps between clients and providers. A focus on specialty areas such as genetics, mental health, physical medicine, palliative care, and issues related to diverse populations. Advanced skills development in ethical decision-making, note-taking, advocacy, active listening, and the art of feedback. Continued development in cultural competency and intercultural communication. CSU
HLTH 81C + HLTH 81L = HLTH 81
Offered Spring semesters

HLTH 81L. Interpreting Lab II (.5)
Lab-27 P/NP available
Prereq: Completion of or concurrent enrollment in: HLTH 81C or Approval of the Health Education Department
Practice advanced interpreting skills, standards, and protocols, with a focus on active listening, linguistic equivalency, vocabulary development, and ethical decision-making. In addition, practice managing the flow of interpreting sessions, such as maintaining pace, ensuring transparency, facilitating understanding and communication, and respecting communicative autonomy of all parties in fast-paced health care and other settings of varying dynamics and complexity. CSU
Offered Spring semesters

HLTH 82. Professional Skills for Healthcare Interpreters (3)
Lec-52.5, field trips P/NP available
Prereq: Completion of or concurrent enrollment in: HLTH 84
Recommended Prep: Readiness for college-level English or ESL 188
This course addresses professional skills required in the workplace and is an integral part of the Healthcare Interpreting Certificate program. Students focus on a seamless integration of interpreting skills, knowledge of special populations, systems, legal, regulatory, and accreditation standards, and the role of advocacy. CSU
Offered Spring semesters

HLTH 84. Introduction to Interpreting in Healthcare (.5)
Lec-9 P/NP only
Recommended Prep: ESL 184 and Excellent proficiency in a second language, such as Spanish, Cantonese, Mandarin, Vietnamese, Russian, Arabic, Korean, Japanese, or Mongolian.
Multilingual students are introduced to the field of healthcare interpreting (HCI) and the California HCI Standards, exploring the roles and scope of practice of healthcare interpreters. Completion of this course, along with proof of language proficiency in English and in a language of service, is required for possible admission to the HCI Certificate of Achievement program. CSU

HLTH 85. Community Nutrition and Education (3)
Lec-52.5, field trips P/NP available
Designed for students pursuing the Community Health Worker Certificate who are interested in working with communities in the areas of nutrition education, food security, and justice. Overview of trends, policies and resources that will enable students to advocate and promote the health of diverse communities. CSU
Offered on occasion

HLTH 88. Family Systems (3)
Lec-52.5 P/NP available
Prereq: Completion of or concurrent enrollment in: HLTH 102
An introduction to the applied principles of the wellness and recovery model when working with families in behavioral health settings. The course examines the implications of cultural humility, life cycle, counseling principles, assessment, supportive resources, and the impact of the system of care in applied practice. CSU
Offered Fall semesters

HLTH 89. Independent Study in Health (1-3)
Lab-52.5 to 157.5 P/NP available
Recommended Prep: Successful completion of a Health Education Course
Supervised individual or group study on topics and issues in public and community health. CSU
Offered on occasion

HLTH 90B. Harm Reduction and Health (.5)
Lec-9
Basic principles and practices of harm reduction and overdoes prevention strategies. CSU

HLTH 90C. Introduction to Trauma and Recovery (.5)
Lec-9 P/NP available
Students will review definitions of trauma, identify common traumatic events, and analyze the ways in which trauma experiences affect the health of survivors. Students will discuss diverse approaches to recovering from traumatic events. CSU

HLTH 91C. Hepatitis ABCs (1)
Lec-18
Overview of the different types of viral hepatitis, their characteristics and treatment options with a focus on hepatitis C as a current public health issue especially among IV drug users. Emphasis on the practice of harm reduction, prevention, navigation and advocacy for communities experiencing substance use, HIV and viral hepatitis. CSU

HLTH 91H. Elder Abuse Prevention (1)
Lec-17.5 P/NP available
Elder abuse, its varied forms, and physical, behavioral and environmental indicators. Social determinants of elder abuse, multicultural perspectives, and methods of prevention. CSU
Offered on occasion

HLTH 91J. Advancing Language Justice for Health (1)
Lec-17.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186 or placement into ESL 188
Linguistic, cultural, and systemic barriers impede the health of individuals and can be costly to society at large. This course provides skills and strategies to advance language justice and equip monolingual and multilingual health workers to work cross-culturally by providing services that are culturally and linguistically appropriate, and through advocacy that promotes systemic changes, empowering self and clients. CSU
Offered on occasion

HLTH 91K. Language Access Strategies and Effective Collaboration with Healthcare Interpreters (1)
Lec-17.5 P/NP available
Language and cultural barriers can impede the health of individuals and can be costly for health systems. This course provides language access strategies and effective collaboration with interpreters across language and cultural barriers in healthcare settings. CSU
Offered on occasion

HLTH 91M. Mindful Stress Reduction (1)
Lec-17.5 P/NP available
This course focuses on mindfulness-based stress reduction practices, including mindfulness meditation and movement practices. Application of these stress reduction practices in everyday life will be supported through the in-class practice of various mindfulness techniques and shared self-reflection. CSU

HLTH 91N. Coaching Healthcare Interpreters (1)
Lec-17.5 P/NP available
Recommended Prep: Healthcare Interpreting Certificate from CCSF or other Community College; and/or State or National Healthcare Interpreting Certification.
This course is designed for healthcare interpreters who enjoy teaching and are interested in coaching emerging interpreters in academia or at their workplaces. Students will explore mentoring, coaching, and adult learning principles, including intercultural communication, and learn skills and techniques to conduct practice labs, assess interpreting skills, and facilitate coaching sessions. CSU
Offered on occasion

HLTH 91P. The Role of Language Access in Advancing Patient-Centered Care (1)
Lec-17.5 P/NP available
Designed to explore the complexities of health and health care, and provides a learning laboratory for collaboration and innovation, breaking the isolation in the work of interpreters. Students will be equipped with 21st-century skills in managing the interpreting session while learning about advances in medicine. All are welcome to join in this learning collaborative aiming towards advancing patient and family-centered care. Healthcare interpreter CEUs for eligible participants. CSU
Offered on occasion

HLTH 91T. Tai Chi for Health and Wellness (1)
Lec-9, Lab-26 P/NP available
Integration of Tai Chi philosophy and theory with contemporary health practices and principles. Recognition of Tai Chi patterns will improve body balance and energy control. Tai Chi and Qigong exercises promote physical, mental and social health. Knowledge is particularly beneficial to health and social workers. CSU
Offered on occasion

HLTH 95. Transgender Health: Working with Clients and Communities (1)
Lec-17.5 P/NP available
A critical analysis of the public health status of transgender populations. The course will provide knowledge, skills, and resources necessary to work effectively in health and social service settings that serve transgender clients and communities. CSU

HLTH 97. Stress and Resilience (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Overview of social and behavioral theories and core concepts of stress, stress reduction and stress management. Critical assessment of the health impacts of stress on individuals, communities, and society. Evidence-based approaches to reducing stress responses and promoting improved health indicators. CSU
Offered on occasion

HLTH 98. Treatment Modalities in Addiction Recovery (3)
Lec-52.5
Prereq: HLTH 100 and HLTH 70
This course is designed to examine the different approaches and structures in the treatment continuum for substance use and co-occurring disordered clients. Students will also examine the relationship between mental health disorders and substance use disorders. Barriers to integrated treatment will also be appraised. CSU

HLTH 99. Group Counseling for Treatment and Recovery (3)
Lec-52.5
Prereq: HLTH 98
Introduction to group facilitation skills within the context of treatment for substance use disorder (SUD). Focus will be on group dynamics, interpersonal and intrapersonal process and group facilitation skills. It prepares students for competence in group and family addiction treatment facilitation and to work towards the Certified Addictions Treatment Counselor credential, as required by the California Consortium of Addiction Programs and Professionals (CCAPP). CSU
Offered Fall semesters

HLTH 100. Introduction to Addiction and Recovery Counseling (1)
Lec-17.5
This course introduces students to the field of alcohol and drug counseling and provides an over view of the requirements for the Addiction and Recovery Counseling Certificate. Students will identify necessary skills and potential challenges to succeeding in the field. CSU

HLTH 102. Helping Relationships: Recovery and Wellness (3)
Lec-52.5 P/NP available
This course offers an introduction to the applied and theoretical principles of the wellness and recovery model. The course emphasizes consumer-directed services, action planning, documentation, systems navigation, trauma informed care, crisis management and counseling skills. CSU

HLTH 103. Community and Group Forums (3)
Lec-52.5 P/NP available
This course offers an introduction to group facilitation skills, community evaluation methods, community and group dynamics, action planning and community-based leadership development. It prepares students to work in the fields of behavioral health, wellness and recovery, and related fields. CSU
Offered Spring semesters

HLTH 104. Internship Preparation and Professional Conduct in Mental Health (3)
Lec-52.5 P/NP available
Prereq: Completion of or concurrent enrollment in: HLTH 91D
The course prepares students for internship placement in behavioral health settings. Emphasis is placed on reviewing and practicing course counseling skills, legal and ethical issues, standard documentation of service delivery, expectations and responsibilities, cultural humility, self-care, and placement strategies including resume writing and employment interviewing skills. CSU
Offered Spring semesters

HLTH 105. Professional Skills for Community Mental Health Workers (2)
Lec-35 P/NP available
Prereq: HLTH 104
Coreq: HLTH 105W
This course addresses key professional concepts and skills for students enrolled in the Community Mental Health Certificate Program and co-enrolled in an internship course. CSU

HLTH 105W. CMHC Internship Placement (2)
Work-120-150 P/NP available
Prereq: Approval of the Health Education Department; Completion of or concurrent enrollment in: HLTH 105
Students complete an internship with local employers to gain meaningful work experience and earn credit towards their Community Mental Health Certificate. One unit of credit is earned for each 60 hours of unpaid, or 75 hours of paid work. CSU
Offered Fall semesters

HLTH 110. Health Impacts of Incarceration (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Health impacts of incarceration for individuals, families and communities. Incarceration and reentry policies will be examined. New models for promoting positive health outcomes among formerly incarcerated populations will be analyzed. CSU
Offered on occasion

HLTH 116. Conflict Resolution Skills in Health (1)
Lec-17.5 P/NP available
In this interactive course, students will learn the impact of unresolved conflict on health and practice essential skills for the management of conflict in their own lives, their communities and community health settings. Implications of culture and power dynamics on conflict resolution will be examined. Students will develop an understanding of their own conflict style and identify areas for growth. CSU

HLTH 120. Educational Justice and Health Equity (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Exploration of the history of educational systems and its impact on public health on the individual and community level. Course integrates academic success skills. UC/CSU
Offered on occasion

HLTH 170. Introduction to Nutrition Professions (1)
Lec-17.5 P/NP available
Focuses on the scope and nature of work in the nutrition field, including higher education pathways, career opportunities, professional roles, skills, responsibilities, and ethics. Includes guest presentations by various nutrition professionals and networking opportunities. CSU
Offered on occasion

HLTH 177. Introduction to Child Nutrition (3)
Lec-52.5
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
The course provides an overview of child nutrition issues, with an emphasis on practical skills and approaches to influence positive eating behaviors that promote optimal health and nutrition. Topics include basic nutrition principles, the feeding relationship, breastfeeding & child nutrition, planning healthy meals & snacks, food safety, childhood obesity, physical activity, nutrition education, child nutrition programs & food assistance resources. CSU
HLTH 177=CDEV 107 Formerly HOEC 107

HLTH 201. CHW Principles & Practice 1 (5)
Lec-87.5
Prereq: HLTH 59
Prepares students for Community Health Worker (CHW) positions in the health and social service fields. The course emphasizes skill development in areas such as cultural humility and client-centered assessment, health education and counseling. CSU
Offered Fall semesters

HLTH 202. CHW Principles & Practice 2 (5)
Lec-87.5
Prereq: HLTH 201
Students will continue to develop core CHW competencies such as cultural humility and client-centered health education, counseling and care management services. They will continue to enhance professional skills essential for success in the field, and will study concepts and skills for providing group and community-centered assessment, education, support and advocacy services. CSU
Offered Spring semesters

HLTH 203. Professional Skills for Community Health Workers (2)
Lec-35
Prereq: Completion of or concurrent enrollment in: HLTH 202
Coreq: HLTH 203W
This course addresses key professional concepts and skills for students enrolled in the Community Health Worker Certificate program and co-enrolled in an internship course. CSU
Offered Spring semesters

HLTH 203W. CHW Internship Placement (2)
Work-120-150
Prereq: Approval by the Health Education Department; Completion of or concurrent enrollment in: HLTH 203
Students complete an internship with local employers to gain meaningful work experience and earn credit towards their CHW Certificate. One unit of credit is earned for each 60 hours of unpaid, or 75 hours of paid work. CSU
Offered Spring semesters

HLTH 221. Health and Social Justice (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Explore the role of social injustices as root causes of the uneven distribution of health and disease according to class, race and gender. Examination of current issues, the process for influencing change, and the role of social movements in creating more healthy and equitable communities. Students will also build their skills to effectively advocate for health and social justice. UC/CSU
C-ID PHS 102
Offered on occasion

HLTH 231. Healthy Cities and Communities (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Explores the relationship between policy, the built urban environment and health. Survey current policy issues in urban community health, and the process for influencing policy. Develop skills to serve as an effective advocate for policy change and community health. UC/CSU
Offered on occasion

HLTH 300. Work Experience in Health and Social Services (1-4)
Work-60-300 P/NP available
Prereq: Approval of Health Education Department; Completion of or concurrent enrollment in: HLTH 82 or HLTH 105 or HLTH 203 or HLTH 175 or HLTH 79 or HLTH 81
Repeat: Repeated up to 8.00 Units
Students complete an internship with local employers to gain meaningful work experience and earn credit towards a certificate in the Health Education field. One unit of credit is earned for each 60 hours of unpaid, or 75 hours of paid work. CSU

Noncredit Courses:

HLTH 5018. Tai Chi for Health (36-43 hrs)
Practical application of Tai Chi and Tai Chi Qigong as meditation in movement exercises, and understanding of their benefits for stress relief, mental alertness and bodily control.

HLTH 5122. Nutrition for the Later Years (35 hrs)
Practical information, effective strategies, and skills that teach the practice of good nutrition, management of personal health, and maintenance of an active, healthy lifestyle in the later years.
Offered on occasion

HLTH 5123. Practical Nutrition Skills for the Later Years (12 hrs)
Practical information, effective strategies, and skills that teach the student how to practice good nutrition and manage health in the later years. This short-term course will focus on consumer skills related to food purchasing, label reading, stretching the food dollar, meal planning, food safety and health literacy.
Offered on occasion

History

Office: Batmale 656
Phone Number: (415) 239-3330
Web Site: *www.ccsf.edu/socialsci*

Announcement of Curricula

History Major (AA-T)

History is the study of multiple aspects of human behavior including the development of world civilizations; the creation of arts, literature, philosophy, and science; development of cultural heritages, political institutions, international diplomacy; and the significant achievements of human kind. The History major is designed to develop knowledge, analytical skills, and critical insight into the nature of humanity and the historical underpinnings of our current world. The core History program includes survey studies on the United States and Western Civilization. Survey courses on specific continents such as Africa, Latin America, and Asia, and focused studies on specific countries such as China, the Philippines, and Mexico, provide a breadth of coverage of international developments. Attention to traditionally under-represented groups such as women, African Americans, Latinos, Asian Americans, Native Americans, Lesbian, Gay, Bi and Transgendered peoples provides a multicultural emphasis on human achievement. The aim is to prepare students for active participation in all areas of life, with a deep understanding of how the present has been shaped by the past, and to prepare for transfer to a four-year university, and then to a range of possible careers.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze, evaluate and synthesize historical evidence and interpretations and use methods of inquiry and expression appropriate to the discipline.
- Explain historical developments and trends, including the impact of class, gender, ethnicity, technology, culture and politics related to the courses taken.
- Interpret primary and secondary sources to compose a written argu ment or interpretation which uses them, as appropriate, for support.
- Explain the major social, cultural, political, technological and economic developments in United States history, their causes and effects, and their historical significance.
- Analyze changes in the political, social, cultural and economic organization in the western world and explain their historical significance.
- Explain the major social, cultural, political, technological and economic developments in non-western countries and their historical impact on the western world and global development.
- Examine the art, literature and major cultural traditions of people through the ages, as appropriate.

Students who wish to earn the Associate in Arts in History for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirements may also be used to meet IGETC or CSU GE requirements.

Assuming students start this AA-T with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in History

Course	Units
Required courses:	
HIST 17A United States History to 1877	3.0
HIST 17B The United States	3.0
HIST 4A Western Civilization	3.0
HIST 4B Western Civilization	3.0
Choose one of the following Diversity courses for United States Under-Represented Groups:	
HIST 9 Immigrants in U.S. History	3.0
HIST 12A United States Women's History: Pre-colonial Through 1880s.	3.0
HIST 12B United States Women's History: 1890-Present	3.0
HIST 15A History of the American Indian: Eastern Tribes	3.0
HIST 15B History of the American Indian: Western Tribes	3.0
HIST 21 History of the Mexican American/Chicano	3.0
HIST 41A African American History From Ancestral West Africa to the Civil War	3.0
HIST 41B 20th Century African American History from the Reconstruction to 21st Century	3.0
HIST 45 LGBT American History	3.0
Choose one of the following courses:	
HIST 18A The Colonial History of Latin America	3.0
HIST 18B History of Latin America Since Independence	3.0
HIST 20 History of Mexico	3.0
HIST 35A Chinese History	3.0
HIST 35B History of China	3.0
HIST 37 History of the Philippines	3.0
Choose one of the following courses:	
HIST 1 The United States Since 1900	3.0
HIST 5 Europe Since 1900	3.0
HIST 37 History of the Philippines	3.0
HIST 40 History of California	3.0
HIST 49 History of San Francisco.	3.0
Any of the previously listed course electives not already completed	
Total:	**21.0**

Announcement of Courses

Credit, Degree Applicable Courses:

HIST 1. The United States Since 1900 (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
An in-depth history of the United States since 1900, with emphasis on the more important political, economic, social, artistic, and cultural aspects of American life and on the role of the United States in world affairs. UC/CSU

HIST 4A. Western Civilization (3)
Lec-52.5
Recommended Prep: Readiness for college level English or ESL 188
Development of Western Civilization from ancient times through the Reformation. The emergence of civilization in the Near East; Greek and Roman civilizations, development of Christianity, Byzantine, and Islamic influences, the Middle Ages, and the intellectual and religious changes of the Renaissance and Reformation. UC/CSU
C-ID HIST 170

HIST 4B. Western Civilization (3)
Lec-52.5
Recommended Prep: Readiness for college level English or ESL 188
An in-depth history of Western Civilization since 1600, with emphasis on the more important political, economic, social, artistic, and cultural aspects of western life and on the role of the western civilization in world affairs. UC/CSU
C-ID HIST 180
HIST 4A is not prerequisite to 4B. HIST 4B covers the period from the Reformation into the twentieth century.

HIST 5. Europe Since 1900 (3)
Lec-52.5
Recommended Prep: Readiness for college level English or ESL 188
A survey of the developments that have shaped Europe's political, economic, social and cultural development since 1900, with emphasis on European and world relationships since 1914. Major topics will include the effects on Europe of the World Wars and the power blocks, along with the reason for current European attitudes. UC/CSU
Offered Spring semesters

HIST 9. Immigrants in U.S. History (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Comparison of selected Asian, African, European and Latino groups in the United States from colonial times to the present. Students examine and compare economic, social, and cultural contributions of immigrant communities; evaluate immigration and naturalization policies; and discuss issues of acculturation and ethnic identity. UC/CSU

HIST 12A. United States Women's History: Pre-colonial Through 1880s (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An in-depth study of the experiences, roles and contributions of women in political, economic, social, and cultural development from the pre-colonial period through the 1880s. UC/CSU
HIST 12A is not preprequisite to HIST 12B.
Offered Fall semesters

HIST 12B. United States Women's History: 1890-Present (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
An in-depth study of the experiences, roles and contributions of women in political, economic, social and cultural development from 1890 to the present. UC/CSU
HIST 12A is not a preprequisite to HIST 12B.
Offered Spring semesters

HIST 15A. History of the American Indian: Eastern Tribes (3)
Lec-52.5 P/NP available
Emphasis on Indians east of the Mississippi starting with the period of European colonization, continuing with the establishment of American domination and the removal policy, and ending with their participation in the Civil War. UC/CSU
HIST 15A not prerequisite to 15B. Emphasis on Indians east of the Mississippi.
Offered on occasion

HIST 15B. History of the American Indian: Western Tribes (3)
Lec-52.5 P/NP available
Emphasis on the life styles of Indians living west of the Mississippi and their wars in defense of their homelands. Governmental policies enacted toward the Indians since the Civil War. UC/CSU
HIST 15A not prerequisite to 15B. Emphasis on Indians west of the Mississippi.
Offered on occasion

HIST 17A. United States History to 1877 (3)
Lec-52.5
Recommended Prep: Readiness for college level English or ESL 188
The history of the United States from the indigenous civilizations to 1877. A survey of the more important political, economic, social, artistic and cultural aspects of American life as well as the role of the United States in world affairs through Reconstruction. UC/CSU
C-ID HIST 130
HIST 17A not prerequisite to 17B. HIST 17A covers from the pre-colonial period to the end of the Civil War.

HIST 17B. The United States (3)
Lec-52.5
Recommended Prep: Readiness for college level English or ESL 188
The history of the United States from the end of the Civil War to the present. A survey of the more important political, economic, social, artistic, and cultural aspects of American life as well as of the role of the United States in world affairs. UC/CSU
C-ID HIST 140
HIST 17A not prerequisite to 17B. HIST 17B covers from the end of the Civil War to the present.

HIST 18A. The Colonial History of Latin America (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
A survey of the colonial history of Latin America. Students examine historical, cultural, political, socio-economic, and artistic elements from the conquest to independence. UC/CSU
HIST 18A not prerequisite to 18B

HIST 18B. History of Latin America Since Independence (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Survey of Latin American history from independence in the 19th century to the present. Addresses regional differences and similarities in culture, race relations, nation building, and economic development. UC/CSU
HIST 18A and HIST 18B can be taken in either order.

HIST 20. History of Mexico (3)
Lec-52.5 P/NP available
A survey of the history of Mexico from the indigenous, colonial and modern eras. UC/CSU
Elective offered at the department's discretion

HIST 21. History of the Mexican American/Chicano (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
A survey of the history of Mexican Americans/Chicanos in the United States. Students examine historical, cultural, political, socio-economic and artistic elements. UC/CSU
Offered on occasion

HIST 35A. Chinese History (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Intellectual, social, political, and economic development of China. Chinese history from ancient times to the Qing Dynasty, approximately 1900. UC/CSU
HIST 35A covers from ancient times to approximately 1900.
Offered on occasion

HIST 35B. History of China (3)
Lec-52.5 P/NP available
Intellectual, social, political, and economic development of China from 1900 to the present. Emphasis is on twentieth-century China, concentrating on the rise of nationalism and Communist rule on the Mainland. UC/CSU
HIST 35A not prerequisite to 35B. HIST 35B covers from 1900 to the present.
Offered on occasion

HIST 37. History of the Philippines (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
This course covers the historical development of the Philippines from the pre-colonial period to present day. The evolution of national culture, political and social institutions, and foreign relations will also be examined. UC/CSU

HIST 40. History of California (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Examine the forces, events, and lives that shaped California, beginning with native cultures and Spanish exploration and colonization. The course will focus on the roles and interactions of Native Americans, Latino Americans, European Americans, and Asian Americans within the broader context of California's political, economic, cultural, and social history. UC/CSU

HIST 41A. African American History From Ancestral West Africa to the Civil War (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college level English or ESL 188
The political, social, artistic, and cultural history of people of African-American descent in the United States from their African beginnings to the Civil War. Covering the development of African-American culture and heritage from ancestral West Africa. UC/CSU

HIST 41B. 20th Century African American History from the Reconstruction to 21st Century (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college level English or ESL 188
The political, social, artistic, and cultural history of the African American people in the United States from the Civil War to the 21st Century. HIST 41B covers from the Reconstruction to the present. UC/CSU

HIST 45. LGBT American History (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Survey of the origins, development, and current status of the Lesbian, Gay, Bisexual, and Transgender reform and liberation movements in the United States, with particular emphasis since WWII. Includes the lives, communities, organizations, and resistance movements created by LGBT peoples from diverse racial, ethnic, and class backgrounds. UC/CSU

HIST 46. Independent Studies in History (1)
Lab-52.5
An individualized reading or research program where students work one-on-one with a faculty member on topics in History. CSU

HIST 49. History of San Francisco (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
The growth of San Francisco from its origins as an Indian-Spanish-Mexican settlement to the metropolis of the San Francisco Bay Area. Emphasis will be on the role of San Francisco as a political, social, cultural, commercial and artistic capital of the West Coast. CSU

Humanities

Office: Art 213
Phone Number: (415) 452-7257
Web Site: *www.ccsf.edu/english*

Announcement of Courses

Credit, Degree Applicable Courses:

HUM 7. Comparative Religions (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of some major world religions: Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity, and Islam. An analysis of the origins of these religions as well as their cultural contexts and present-day issues. UC/CSU

HUM 8. Philosophies of Religion (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A close reading of the sacred scriptures of six of the world's great religions (Hinduism, Buddhism, Daoism, Judaism, Christianity, and Islam), including their influences on their cultures and today's world. UC/CSU
Offered Spring semesters

HUM 11. Music, Art, and Literature: Traditional (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to traditional, cross-cultural concepts in the humanities, embracing the visual arts, music, and literature. The course not only presents many classic works of the Western canon but also shows the influence of non-Western cultures on them. UC/CSU
Offered Fall semesters

HUM 12. Music/Art/Literature: Modern (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to modern, cross-cultural concepts in the humanities, embracing the visual arts, music, and literature. The course not only presents many classic works of the Western canon but also shows the influence of non-Western cultures on them. UC/CSU
Offered Spring semesters

HUM 20. Bay Area Arts (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Explores how Bay Area artists' achievements in architecture, arts, music, literature, and other aesthetic expressions define our regional culture and our position in the broader international field of the arts. UC/CSU

HUM 25. Women in the Arts (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A cross-cultural survey of women's achievements in the visual, literary, and performing arts made through examination of current and historical examples. Student understanding is informed by original, biographical, and critical texts and enhanced by cultural theories of aesthetics, sex, gender, and race. UC/CSU
Offered Fall semesters

HUM 41A. Western Cultural Values: Pre-history to the Middle Ages (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The evolution of Western consciousness from Paleolithic times to the through the High Middle Ages. Emphasis on the creations of those artists and thinkers whose styles and modes of thought reflect the cultural temper of their times. UC/CSU
HUM 41A not prerequisite to 41B.
Offered Fall semesters

HUM 41B. Western Cultural Values (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The evolution of Western consciousness from the Renaissance to the modern era. Emphasis on the creations of those artists and thinkers whose styles and modes of thought reflect the cultural temper of their times. UC/CSU
HUM 41A is not a prerequisite to 41B
Offered Spring semesters

HUM 48. African-American Music, Art and Literature (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A study of significant works in African-American literature, philosophy, art, and music, including their roots in African cultures. UC/CSU
Offered on occasion

IGETC

Website: *www.ccsf.edu/artic*

Announcement of Curricula

IGETC Certificate

Students who complete the approved IGETC transfer pattern are eligible to obtain the Certificate of Achievement in Intersegmental General Education Transfer Curriculum (IGETC). Details of the course requirements and learning outcomes are available in the Transfer Information section of this catalog. Students are strongly encouraged to consult with a counselor for further information.

(See also CSU GE-Breadth Certificate)

Interdisciplinary Studies

Office: Batmale 211
Phone Number: (415) 452-5343
Web Site: *www.ccsf.edu/IDST*

Announcement of Curricula

Critical Pacific Islands & Oceania Studies Major (AA)

The Critical Pacific Islands & Oceania Studies Associate of Arts degree introduces students to a substantive and critical analysis of Pacific peoples and cultures in the U.S. diaspora and beyond. Centering on the voices of native Pacific Islanders, this interdisciplinary curriculum examines historical and contemporary topics, including colonization, militarization, social movements, diversity, social justice, and immigration. All required courses meet University of California (UC) and California State University (CSU) transfer requirements and/or City College of San Francisco General Education (GE) area requirements A (Communication & Analytical Thinking), C (Natural Sciences), D (Behavioral and Social Sciences) E (Humanities), G-1 (Health Knowledge), and H1 (Ethnic Studies).

The program appeals to diverse students, including international students, who are planning careers in many areas in the Humanities and Social Sciences with an emphasis in Critical Pacific Islands & Oceania Studies such as Religious Studies, International Relations, International Law, Global Studies, Political Science, Ethnic Studies, History, Language and Literature, Diversity and Social Justice, and Physical and Biological Sciences. The program is ideal for those whose work involves interacting with native Pacific Islanders and other communities of color such as service providers, health practitioners, law enforcement officers, researchers, teachers, and administrators and staff-members in community-based organizations, and social and government agencies.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the methods of inquiry used in the study of indigenous Pacific Islander communities.
- Evaluate the expression of the ocean aesthetic across Pacific Islander cultural practices.
- Apply analytical skills, problem-solving, and decision-making techniques to improve study strategies, wellness, and life-long learning.
- Describe the intersectionality and interrelatedness of distinct forms of social oppression in the United States.
- Analyze the relationships between human environments and scientific aspects of physical, natural environments.

Each course must be completed with a grade of C or higher, or pass.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses used to meet the Certificate of Achievement in Critical Pacific Islands & Oceania Studies may also be used to fulfill the requirements for this major. Courses used to meet the requirements for this major may also be used to meet IGETC or CSU GE requirements for the AA-T Social Justice Studies major.

Courses Required for the Major in Critical Pacific Islands & Oceania Studies

Course	Units
Required	
IDST 45 Pacific Islanders in the United States	3.0
IDST 46 Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania	3.0
IDST 50 College Success	3.0
or LERN 50 College Success	3.0
HLTH 33 Introduction to Health and Wellness	2.0
Choose 2 units from the following	
IDST 80A Diversity and Social Justice: Racism	0.5
IDST 80C Diversity and Social Justice: Sexism	0.5
IDST 80D Diversity and Social Justice: Heterosexism	0.5
IDST 80E Diversity and Social Justice: Ableism	0.5
IDST 80F Diversity and Social Justice: Class and Classism	0.5
IDST 80G Diversity and Social Justice: Transphobia	0.5
IDST 81A Diversity: Ageism and Adultism (Age-based Oppression)	1.0
IDST 81B Diversity and Social Justice: Anti-Semitism/Anti-Arabism	1.0
Choose one of the following course combinations All combinations are lecture and lab. Choose the lecture and lab that go together, as indicated by "and."	
ASTR 19 Galaxies and the Universe	3.0
and ASTR 16 Observational Astronomy	1.0
BIO 32 Marine Biology	3.0
and BIO 32L Marine Biology Laboratory	1.0
ENRG 3 Introduction to Alternative Energy	3.0
and ENRG 3L Introduction to Alternative Energy Laboratory	1.0
GEOG 1 Physical Geography	3.0
and GEOG 1L Physical Geography Laboratory	1.0
GEOL 10 Physical Geology	3.0
and GEOL 10L Physical Geology Lab	2.0
OCAN 1 Oceanography	3.0
and OCAN 1L Oceanography Lab	2.0
P SC 11 Conceptual Physical Science	3.0
and P SC 11L Physical Science Laboratory	1.0

ENVS 31 Introduction to Environmental Science. 3.0
and ENVS 31L Environmental Science Laboratory 1.0

Choose 3 units from the following
IDST 37 Introduction to Ethnic Studies. 3.0
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3.0
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified 3.0
SOC 25 Sex and Gender in the U.S. 3.0

Choose 3 units from the following if not used above
ANTH 15 Philippine Culture and Society 3.0
ASAM 8 Filipino American Community. 3.0
CINE 22 History of Documentary Film. 3.0
GEOG 4 Cultural Geography 3.0
IDST 7 Introduction to the United Nations. 3.0
IDST 14 American Cultures in Literature and Film 3.0
IDST 29 Islam: Identity & Culture 3.0
IDST 30 Demystifying the Middle East 3.0
IDST 36 Poetry for the People. 3.0
IDST 37 Introduction to Ethnic Studies. 3.0
LALS 9 The Latinx LGBTQ+ Experience. 3.0
LGBT 9 The Latinx LGBTQ+ Experience 3.0
PHST 20 The Filipino Family 3.0
PHST 30 Philippine Society and Culture Through Film 3.0
PHST 40 Contemporary Issues in the Filipino Diaspora 3.0
PHST 42 Introduction to Philippine Arts 3.0

Total: . . . . . 23.0 – 24.0

Social Justice Studies: Ethnic Studies Major (AA-T)

CCSF's Social Justice Studies: Ethnic Studies Associate Degree for Transfer applies an intersectional lens to the study of race and ethnicity in the U.S. Diaspora, including Latin America, Oceania, and Southwest Asia, North Africa and The Middle East. It prepares students for a range of majors and concentrations at California State Universities (CSU), from Ethnic Studies and Women's, Gender, and Sexuality Studies to Education, Comparative Literature, Social Work and Sociology with an emphasis in Ethnicity and Race.

The Social Justice Transfer Model Curriculum (TMC) is an area of emphasis (AOE) and prepares students for transfer into a range of possible majors including:

- African American Studies
- American Studies
- Asian American Studies
- Chicano/Chicana Studies
- Critical Middle East/SWANA Studies
- Education
- Ethnic Studies
- History with an emphasis in Immigrant Studies
- Labor Studies
- Latin American and Latinx//a/o Studies
- Liberal Studies w/Option in Interdisciplinary Studies in Culture & Society
- Liberal Studies Border Studies w/Option in Mexican-American Studies
- Political Science with an emphasis in Ethnic Studies
- Sociology with a concentration Race, Class, and Gender
- Sociology with Inequalities and Diversity Option
- Social Science with Emphasis in Islamic and Arabic Studies
- Social Work
- Women, Gender, and Sexuality Studies
- Women's Studies,
- and several other possible CSU majors

Learning Outcomes

Upon completion of this program, students will be able to:

- Evaluate the social science, behavioral, or historical approaches and theories in the study of racial, ethnic, and cultural formations.
- Analyze how intersections of social class, gender, sexuality, and religion pervade racial and ethnic identity formations.
- Evaluate how changing definitions of race, social class, and ethnicity impact policies, cultures and societies.
- Appraise artistic and cultural representations that speak to race, ethnicity, gender, and sexuality.
- Compare the struggles for social justice of diverse ethnic and racial groups in the United States Diaspora.

Students who wish to earn the Associate of Arts in Social Justice: Ethnic Studies for Transfer degree must complete 60 semester units of degree-applicable courses with at least a 2.0 grade point average. This must include units required for full completion of the IGETC or CSU GE Curriculum and the units for the major as specified below. Each course in the major must be completed with a minimum grade of "C" (or "P") or better. Courses that meet the major requirements may also be used to meet IGETC or CSU GE requirements.

Students interested in Social Justice Studies majors or related careers are advised to meet with an affiliated counselor or department chair to discuss educational goals, course options, and transfer issues.

Minimum time for completion is four semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Social Justice Studies: Ethnic Studies

Course . . . . . Units
Required
IDST 37 Introduction to Ethnic Studies. 3.0
or ETHN 37 Introduction to Ethnic Studies. 3.0

Choose one of the following
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3.0
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified 3.0

Choose one of the following
AFAM 30 African American Consciousness. 3.0
ASAM 20 Asian American Experience Since 1820 . . . . . 3.0
LALS 1 The Latinx Experience in the United States 3.0

Select 3 courses from at least 2 areas
Area 1: History and Government
ASAM 20 Asian American Experience Since 1820* 3.0
HIST 9 Immigrants in U.S. History 3.0

HIST 18A The Colonial History of Latin America 3.0
HIST 12B United States Women's History: 1890-Present 3.0
HIST 15A History of the American Indian: Eastern Tribes 3.0
HIST 15B History of the American Indian: Western Tribes 3.0
HIST 20 History of Mexico 3.0
HIST 21 History of the Mexican American/Chicano 3.0
HIST 41A African American History From Ancestral West Africa to the Civil War 3.0
HIST 41B 20th Century African American History from the Reconstruction to 21st Century 3.0
LBCS 70A Who Built America? 1492-1877 . . . . . 3.0
LBCS 70B Who Built America? From Reconstruction to the Present 3.0
LALS 1 The Latinx Experience in the United States* 3.0
LALS 11 Drug Wars in the Americas. 3.0
LALS 13 Latin American Social Movements 3.0
POLS 12 Ethnic Politics in the United States 3.0
POLS 45 Governments and Politics of Middle East 3.0

Area 2: Arts and Humanities
AFAM 30 African American Consciousness* 3.0
AFAM 40 The Black Experience in California 3.0
AFAM 60 African American Women in the U.S. 3.0
ASAM 6 Asian American Issues through Literature 3.0
ASAM 10 Asian American Popular Culture 3.0
ASAM 30 Asian American Issues Through Film 3.0
ASAM 35 Asian American Women 3.0
HIST 15A History of the American Indian: Eastern Tribes 3.0
HIST 15B History of the American Indian: Western Tribes 3.0
HIST 18A The Colonial History of Latin America 3.0
HIST 18B History of Latin America Since Independence 3.0
HIST 20 History of Mexico 3.0
HIST 21 History of the Mexican American/Chicano 3.0
HIST 41A African American History From Ancestral West Africa to the Civil War 3.0
HIST 41B 20th Century African American History from the Reconstruction to 21st Century 3.0
IDST 3 Introduction to Museum Studies. 3.0
IDST 14 American Cultures in Literature and Film 3.0
IDST 27B Asian Humanities: Contemporary 3.0
IDST 30 Demystifying the Middle East 3.0
IDST 31 Women and Gender in the Middle East 3.0
IDST 36 Poetry for the People. 3.0
IDST 45 Pacific Islanders in the United States 3.0
IDST 46 Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania 3.0
LALS 1 The Latinx Experience in the United States* 3.0
LALS 14 Diego Rivera: Art and Social Change in Latin America 3.0
LGBT 11 History of LGBTQ+ Film: Silent Era to 1969 . . . 3.0
LGBT 20 LGBT U.S. Art and Culture. 3.0
LGBT 55 Contemporary Global Art and Culture 3.0

Area 3: Social Science
AFAM 30 African American Consciousness* 3.0
AFAM 42 The Origins and History of Race Theory and Modern Racism 3.0
AFAM 60 African American Women in the U.S. 3.0
ANTH 3C Introduction to Cultural Anthropology: Focus on U.S. Cultures. 3.0
ANTH 12 Indigenous Peoples of North America 3.0
ASAM 8 Filipino American Community. 3.0
ASAM 20 Asian American Experience Since 1820* 3.0
ASAM 22 Community Issues & Leadership 3.0
ASAM 27 Asian American Race Relations 3.0
ASAM 30 Asian American Issues Through Film 3.0
ASAM 35 Asian American Women 3.0
ASAM 40 Chinese American Community 3.0
ASAM 42 Southeast Asians in the U.S.: Experience and Culture 3.0
CDEV 53 Child Growth and Development 3.0
CDEV 67 Child, Family, and Community. 3.0
ECON 30 Economics of the African American Community 3.0
IDST 45 Pacific Islanders in the United States 3.0
LALS 1 The Latinx Experience in the United States* 3.0
LALS 9 The Latinx LGBTQ+ Experience** 3.0
LALS 10 Latinas in the U.S./VOCES. 3.0
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies* 3.0
LGBT 9 The Latinx LGBTQ+ Experience** 3.0
LGBT 50 LGBT Communities of Color in the U.S. 3.0
POLS 12 Ethnic Politics in the United States 3.0
PSYC 23 Psychology of Race and Ethnic Relations 3.0
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified* 3.0

Area 4: Quantitative Reasoning & Research Methods
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies 5.0

** Students may earn credit for either LALS 9 or LGBT 9.
* Courses may only be used to satisfy one requirement.

Total: . . . . . 18.0 – 20.0

Collaborative Design Certificate*

The certificate program in Collaborative Design provides students with a strong foundation in multidisciplinary approaches to design and collaboration.

*See Maker Studies section of the catalog.

Critical Middle East /South West Asia and North Africa Studies Certificate

The Critical Middle East Studies Certificate of Achievement introduces students to an analysis of the history, politics, society, culture and religions of the Middle East/South West Asia and North Africa (SWANA) with attention to major events in the region and their representations and impacts across the Diaspora, especially in the United States. The program integrates area studies, ethnic studies, gender studies, and interdisciplinary methodologies. The required 3 unit courses are University of California and California State University transferable and collectively the courses meet graduation area requirements in D-Social Sciences, E-Humanities, and H1-Diversity.

The program appeals to diverse students, including international students, who plan careers in many areas in the Humanities and Social Sciences with an emphasis in the Middle East/SWANA such as

Religious Studies, International Relations, International Law, Global Studies, Political Science, Ethnic Studies, History, Language and Literature. The program primarily serves students who are transferring to a four-year university and additionally serves as professional development for employers, community-based organizations and social and government agencies.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the cultural and ideological influence of Islam and other major religions in the Middle East/SWANA.
- Compare the political systems of the Middle East/SWANA within a historical and social context.
- Examine social and cultural expressions within Middle Eastern/SWANA societies and diaspora communities.
- Analyze the relationship of women and minority groups to the state and society in the Middle East/SWANA and within diaspora communities.
- Evaluate and challenge the assumptions that underpin anti-Semitic and anti-Arab discrimination, Islamophobia and other forms of oppression.

Credit towards other certificates. Some courses that count towards the Critical Middle East Studies/SWANA Certificate also fulfill requirements for the Diversity and Social Justice Certificate, the Political Science and Women's Studies majors, and the Social Justice Studies AA-Ts.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Critical Middle East /South West Asia and North Africa Studies

Course	Units
Required	
IDST 29 Islam: Identity & Culture	3.0
IDST 30 Demystifying the Middle East	3.0
IDST 31 Women and Gender in the Middle East	3.0
IDST 81B Diversity and Social Justice: Anti-Semitism/Anti-Arabism	1.0
POLS 45 Governments and Politics of Middle East	3.0
Total:	**13.0**

Critical Pacific Islands & Oceania Studies Certificate

The Critical Pacific Islands & Oceania Studies Associate of Arts degree introduces students to a substantive and critical analysis of Pacific peoples and cultures in the U.S. diaspora and beyond. Centering on the voices of native Pacific Islanders, this interdisciplinary curriculum examines historical and contemporary topics, including colonization, militarization, social movements, diversity, social justice, and immigration. All required courses meet University of California (UC) and California State University (CSU) transfer requirements and/or City College of San Francisco General Education (GE) area requirements A (Communication & Analytical Thinking), C (Natural Sciences), D (Behavioral and Social Sciences) E (Humanities), and H1 (Ethnic Studies).

The program is ideal for those whose work involves interacting with native Pacific Islanders and other communities of color such as service providers, health practitioners, law enforcement officers, researchers, teachers, and administrators and staff-members in community-based organizations, and social and government agencies. The program should also encourage students to further their educational aspirations through the completion of an associate degree and successfully transferring to a four-year university.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the methods of inquiry used in the study of indigenous Pacific Islander communities.
- Evaluate the expression of the ocean aesthetic across Pacific Islander cultural practices.
- Apply analytical skills, problem-solving, and decision-making techniques to improve study strategies, wellness, and life-long learning.
- Describe the intersectionality and interrelatedness of distinct forms of social oppression in the United States.
- Analyze and assess the relationships between human environments and scientific aspects of physical, natural environments.

Each course must be completed with a grade of C or higher, or pass.

Minimum time for completion is two semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Critical Pacific Islands & Oceania Studies

Course	Units
Required	
IDST 45 Pacific Islanders in the United States	3.0
IDST 46 Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania	3.0
IDST 50 College Success	3.0
or LERN 50 College Success	3.0
Choose 2 units from the following	
IDST 80A Diversity and Social Justice: Racism	0.5
IDST 80C Diversity and Social Justice: Sexism	0.5
IDST 80D Diversity and Social Justice: Heterosexism	0.5
IDST 80E Diversity and Social Justice: Ableism	0.5
IDST 80F Diversity and Social Justice: Class and Classism	0.5
IDST 80G Diversity and Social Justice: Transphobia	0.5
IDST 81A Diversity: Ageism and Adultism (Age-based Oppression)	1.0
IDST 81B Diversity and Social Justice: Anti-Semitism/Anti-Arabism	1.0
Choose one of the following course combinations All combinations are lecture and lab. Choose the lecture and lab that go together, as indicated by "and."	
ASTR 19 Galaxies and the Universe	3.0
and ASTR 16 Observational Astronomy	1.0
BIO 32 Marine Biology	3.0
and BIO 32L Marine Biology Laboratory	1.0
ENRG 3 Introduction to Alternative Energy	3.0
and ENRG 3L Introduction to Alternative Energy Laboratory	1.0
GEOG 1 Physical Geography	3.0
and GEOG 1L Physical Geography Laboratory	1.0

GEOL 10 Physical Geology 3.0
and GEOL 10L Physical Geology Lab 2.0
OCAN 1 Oceanography 3.0
and OCAN 1L Oceanography Lab 2.0
P SC 11 Conceptual Physical Science 3.0
and P SC 11L Physical Science Laboratory 1.0
ENVS 31 Introduction to Environmental Science. 3.0
and ENVS 31L Environmental Science Laboratory 1.0

Choose 3units from the following

ASAM 8 Filipino American Community. 3.0
ANTH 15 Philippine Culture and Society 3.0
CINE 22 History of Documentary Film. 3.0
GEOG 4 Cultural Geography 3.0
IDST 4 Ways of Faith 3.0
IDST 7 Introduction to the United Nations. 3.0
IDST 14 American Cultures in Literature and Film 3.0
IDST 27B Asian Humanities: Contemporary 3.0
IDST 29 Islam: Identity & Culture 3.0
IDST 30 Demystifying the Middle East 3.0
IDST 36 Poetry for the People. 3.0
IDST 37 Introduction to Ethnic Studies. 3.0
LALS 9 The Latinx LGBTQ+ Experience. 3.0
LGBT 9 The Latinx LGBTQ+ Experience 3.0
PHST 20 The Filipino Family 3.0
PHST 30 Philippine Society and Culture Through Film 3.0
PHST 40 Contemporary Issues in the Filipino Diaspora 3.0
PHST 42 Introduction to Philippine Arts 3.0
WGST 20 Her/His/Ourstories. 3.0

Total: . . . . . 18.0 – 19.0

Diversity and Social Justice Certificate

The Diversity and Social Justice Certificate of Accomplishment is a series of short courses that provide a consciousness-raising analysis and evaluation of specific forms of social oppression and social justice interventions in the United States. The certificate examines the intersectionality of sexism, classism, racism, anti-Semitism/anti-Arabism, heterosexism, ableism, transphobia, and adultism/ageism (age-based oppression). Addressing individual, institutional, and socio-cultural elements of diversity, inclusion, equity & social justice.

The certificate offers professional development opportunities for employers, community-based organizations, government agencies, and City College of San Francisco students, faculty, and staff.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe and analyze systems of oppression and privilege related to social identity or status.
- Assess biases and stereotypes in relation to diversity and social justice.
- Examine individual and collective ways of taking action in response to oppression.
- Explain the intersectionality of distinct forms of social oppression.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Accomplishment in Diversity and Social Justice

Course . . . . . Units

Required

IDST 80A Diversity and Social Justice: Racism 0.5
IDST 80C Diversity and Social Justice: Sexism. 0.5
IDST 80D Diversity and Social Justice: Heterosexism. 0.5
IDST 80E Diversity and Social Justice: Ableism 0.5
IDST 80F Diversity and Social Justice: Class and Classism 0.5
IDST 80G Diversity and Social Justice: Transphobia 0.5
IDST 81A Diversity: Ageism and Adultism (Age-based Oppression) 1.0
IDST 81B Diversity and Social Justice: Anti-Semitism/Anti-Arabism. 1.0

Total: 5.0

Trauma Prevention and Recovery Certificate

The Trauma Prevention and Recovery Certificate of Achievement prepares students for work in the field of violence prevention and trauma response (or in education, health and human services more broadly) by providing knowledge of dynamics of trauma, strategies to prevent violence and skills to support survivors.

This interdisciplinary curriculum provides students with a broad understanding of violence, its causes and its impact on individuals, families, communities and societies. Students develop skills to critically analyze social constructs that contribute to violence, listen with empathy, offer appropriate referrals, and provide culturally sensitive peer support.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the causes and consequences of violence and trauma.
- Compare programmatic approaches and/or community resources and assess their utility in diverse situations involving trauma.
- Examine historic and aesthetic approaches to understanding trauma.
- Demonstrate peer counseling and client-centered communication skills for working with victims and survivors.
- Explain how identity, status and structural oppression relate to trauma.
- Demonstrate self awareness in relation to vicarious trauma, the healing process and the helper role.

The Trauma Prevention and Recovery Certificate program is open to any student enrolled at CCSF who meets the prerequisite requirements for each of the required courses.

Each course must be completed with a final grade of C or higher, or Pass.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Trauma Prevention and Recovery

Course . . . . . Units

Required

IDST 47 Trauma and the Arts: An Interdisciplinary Approach 3.0

HLTH 38 Trauma, Resilience and Recovery 3.0
HLTH 48 Violence as a Public Health Issue 3.0
WGST 54 The Politics of Sexual Violence 3.0
HLTH 90C Introduction to Trauma and Recovery 0.5
CDEV 100 Violence and Its Impact on Children and Their Families 3.0
or CDEV 101 Introduction to Violence Intervention. . . 3.0

Choose one course from the following
IDST 80A Diversity and Social Justice: Racism 0.5
IDST 80C Diversity and Social Justice: Sexism. 0.5
IDST 80D Diversity and Social Justice: Heterosexism. 0.5
IDST 80E Diversity and Social Justice: Ableism 0.5
IDST 80F Diversity and Social Justice: Class and Classism 0.5
IDST 80G Diversity and Social Justice: Transphobia. 0.5

Choose 3 units from the following electives. Courses counted as a required course above cannot be used to fulfill an elective:
ADMJ 64 Progressive Policing in the 21st Century 3.0
CDEV 72 Supervised Field Experience in Early Childhood Education. 3.0
CDEV 78 Supervised Field Experience in Community Youth Organizations 3.0
CDEV 100 Violence and Its Impact on Children and Their Families 3.0
CDEV 101 Introduction to Violence Intervention 3.0
HLTH 91H Elder Abuse Prevention 1.0
HLTH 97 Stress and Resilience 3.0
HLTH 116 Conflict Resolution Skills in Health. 1.0
IDST 80A Diversity and Social Justice: Racism 0.5
IDST 80C Diversity and Social Justice: Sexism. 0.5
IDST 80D Diversity and Social Justice: Heterosexism. . . 0.5
IDST 80E Diversity and Social Justice: Ableism 0.5
IDST 80G Diversity and Social Justice: Transphobia 0.5
IDST 80F Diversity and Social Justice: Class and Classism 0.5
IDST 81A Diversity: Ageism and Adultism (Age-based Oppression) 1.0
IDST 81B Diversity and Social Justice: Anti-Semitism/Anti-Arabism. 1.0
LBCS 81 Organizing for Economic and Social Justice . . . 3.0
PSYC 9 Psychology of Stress 3.0
PSYC 15 Assertive Behavior 1.0
PSYC 26 Applied Psychology. 3.0
WGST 55 Ending Sexual Violence: Peer Education 3.0

Total: 19.0

Critical Pacific Islands & Oceania Studies Certificate

The Critical Pacific Islands & Oceania Studies Certificate of Accomplishment introduces students to a substantive and critical analysis of Pacific peoples and cultures in the U.S. diaspora and beyond. Centering on the voices of native Pacific Islanders, this interdisciplinary curriculum examines historical and contemporary topics, including colonization, militarization, social movements, diversity, social justice, and immigration. Courses in the program meet University of California (UC) and California State University (CSU) transfer requirements and/or City College of San Francisco General Education (GE) area requirements D (Behavioral and Social Sciences) & E (Humanities).

The program is ideal for students beginning their college studies and those whose work involves interacting with native Pacific Islanders and other communities of color such as service providers, health practitioners, law enforcement officers, researchers, teachers, and administrators and staff-members in community-based organizations, and social and government agencies. This program also serves as a foundation for students pursuing a certificate of achievement, an associate degree, and/or transfer to a four-year university.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe the diversity of the Oceania/Pacific Islander communities in the United States and beyond.
- Apply the methods of inquiry used in the study of indigenous Pacific Islander communities.
- Evaluate the expression of the ocean aesthetic across Pacific Islander cultural practices.
- Analyze how forms of social oppression shape artistic expressions across Oceania.

Minimum time for completion is 1 semester. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Accomplishment in Critical Pacific Islands & Oceania Studies

Course . . . . . Units
Required
IDST 45 Pacific Islanders in the United States 3.0
IDST 46 Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania 3.0

Total: 6.0

Announcement of Courses

Interdisciplinary Studies

Credit, Degree Applicable Courses:

IDST 3. Introduction to Museum Studies (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Museums display, collect, preserve, and interpret art, historical, and scientific objects. Exploration of museums from multiple perspectives: architecture, collections, exhibitions, and economic realities involved in museum sustainability. History of museums in the United States. Promotion of museums as a community resource with open access to everyone. Visits to local museums. UC/CSU
May not be offered every semester. Specific times, topics, and instructors will be announced through campus media.
Offered Spring semesters

IDST 4. Ways of Faith (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This interdisciplinary course introduces the scriptural, symbolic, and artistic traditions of the world's major faiths: Hinduism, Buddhism, Taoism, Judaism, Christianity, and Islam. The class also considers how knowledge of these religious systems can serve to advance world peace. UC/CSU
Offered Fall semesters

IDST 7. Introduction to the United Nations (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the United Nations, including the UN Charter's mission to achieve international peace, and the function of the organization's six administrative bodies. In addition to studying the theory and practice of international diplomacy, students evaluate the successes and challenges of collective security, peacekeeping attempts, and technological cooperation. UC/CSU
Offered on occasion

IDST 14. American Cultures in Literature and Film (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary survey of literary and cinematic works of fiction, drama, non-fiction and poetry that investigates unity in diversity in the shifting trajectories of American identities and interrelationships. Groups featured to assess their interactive contributions to American cultures include Native-, European-, African-, Latin-, Asian-Americans, and Pacific Islanders. UC/CSU
Offered on occasion

IDST 17. Human Sexuality (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A human sexuality course that integrates content and methodology from the disciplines of biology, ethics, health education, history, jurisprudence, LGBTQI+. women and gender studies, psychology, and social justice. Covers the anatomical, physiological and psychological stages of development across the life span, including the role of gender, patterns of sexual arousal and response, and the paraphilias. UC/CSU
C-ID PSY 130
Offered Spring and Fall semesters

IDST 27B. Asian Humanities: Contemporary (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Survey of Asian cultures of modern to contemporary period, especially Arabic-Islamic, Indian, Chinese and Japanese cultures. Emphasis on literature, philosophy, religion, and the arts. Provides an interdisciplinary and cross-cultural approach to the differences and underlying unity of Asian cultures. UC/CSU
IDST 27A is not prerequisite to 27B. No knowledge of foreign languages required.
Offered on occasion

IDST 29. Islam: Identity & Culture (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary survey of Muslim identity and the origins, principles, and practices of Islam, comparing and contrasting them with those of other major religions. Focus on the historical development and current practices of Islam and its impact on philosophy, art, music, architecture, gender, media, popular culture, and politics. UC/CSU
Offered on occasion

IDST 30. Demystifying the Middle East (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This interdisciplinary survey of South West Asia and North Africa (the Middle East) introduces students to the historical, cultural, and religious diversity of the region, highlighting contributions in various disciplines, including science, art, music, and literature. It also examines U.S. involvement, representation, media, current political discourse and activism in the region and in diaspora. UC/CSU
Offered Fall and Summer semesters

IDST 31. Women and Gender in the Middle East (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary examination of differences/similarities in women's lives in the Muslim/Arab world, including the diaspora, and among minorities in the Middle East/Southwest Asia and North Africa (SWANA). Analysis includes diversity, colonization, nationalism, religion, gender, sexuality, family, law, literature, music, art and film. UC/CSU
Offered on occasion

IDST 36. Poetry for the People (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary approach toward development of literacy in multiple popular traditions of poetry, including in social justice movements, by incarcerated people, and through alternative media. Includes scrutiny of published poems from multiple cultural traditions, a focus on community, and the cultivation and public presentation of new poems. UC/CSU
Offered Fall and Spring semesters

IDST 37. Introduction to Ethnic Studies (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to concepts, theories, methodologies and social policy related to the history, culture, concerns, and conditions of the field of Ethnic Studies. Employs Critical Race Theory, Intersectionality, and Indigenous Methodologies to analyze and articulate cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, and patterns of interaction between various racial and ethnic groups. UC/CSU
C-ID SOCI 150
Crosslisted with ETHN 37

IDST 45. Pacific Islanders in the United States (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines Pacific Islander migrations to the United States mainland including the history, culture, and politics of Hawai'i and U.S. Pacific territories. It explores indigenous cultures and American experiences of Pacific Islanders from Guam, American Samoa, Palau, Marshall Islands, Fiji, Samoa, Tonga, Tahiti, New Zealand, and Australia. UC/CSU
Cross listed with ETHN 45.
Offered on occasion

IDST 46. Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of traditional and contemporary art across Oceania (Pacific Islands). Emphasis on literature, dance, music, visual arts, film, and museums. Using an interdisciplinary and cross-cultural approach, the course explores the underlying unity of Pacific cultures, including their engagement with both western and non-western societies, colonization, and diasporic communities. UC/CSU
Offered Fall and Spring semesters

IDST 47. Trauma and the Arts: An Interdisciplinary Approach (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A multi-disciplinary examination of works of art, music and literature inspired by both personal and global trauma with an emphasis on the transformative power of testimony, story telling, and the creative process. UC/CSU
Offered Fall and Spring semesters

IDST 50. College Success (3)
Lec-52.5 P/NP available
Recommended Prep: Completion of or concurrent enrollment in: ESL 18 or ENGL 88 or higher
Integrates study strategies, critical analysis and communication skills in preparation for lifelong success in academic, professional and personal development. Includes time management, critical thinking, personal and educational values, written and spoken communication, informational literacy, research skills, equity and social justice, navigation of educational systems, online learning, health, and financial literacy. UC/CSU
IDST 50 = LERN 50
Offered on occasion

IDST 80A. Diversity and Social Justice: Racism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of race-based oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about racism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80C. Diversity and Social Justice: Sexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness raising analysis and evaluation of sexism on individual, institutional, and cultural levels in the United States. Expanding one's knowledge about sexism, increasing personal awareness of one's own sexism and assumptions, and the application of this knowledge and awareness for individual and social change are emphasized. CSU
Offered Fall semesters

IDST 80D. Diversity and Social Justice: Heterosexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of homophobia and heterosexism (discrimination based on perceived or real sexual orienta tion and identity) oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about heterosexism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80E. Diversity and Social Justice: Ableism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of ableism (disability-based oppression) on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about ableism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80F. Diversity and Social Justice: Class and Classism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of class oppression and classism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about class, class oppression and classism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

IDST 80G. Diversity and Social Justice: Transphobia (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of transphobia and gender oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about transphobia and gender diversity, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 81A. Diversity: Ageism and Adultism (Age-based Oppression) (1)
Lec-18 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of age-based bias, discrimination and oppression (adultism and ageism) on individual, institutional, and cultural levels in the U.S. Expanding knowledge about adultism and ageism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change are emphasized. CSU
Offered Spring semesters

IDST 81B. Diversity and Social Justice: Anti-Semitism/Anti-Arabism (1)
Lec-18 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of anti-Semitism and anti-Arabism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about anti-Semitism and anti-Ara

bism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

IDST 300. Social Justice Work Experience (1-6)
Work-60-450 P/NP only
Prereq: Approval of the Interdisciplinary Studies Department
Repeat: Repeated up to 16.00 Units
General work experience course designed for students considering careers in social justice, public service and the nonprofit sector. Through supervised internships at justice-oriented and community-based organizations, students can increase their skills working with the public sector and their knowledge of career options and pathways, including the skills necessary for work in this sector. One unit of credit is earned for each 60 hours of unpaid work or 75 hours of paid work. CSU
Offered Fall and Spring semesters

Design

Credit, Degree Applicable Courses:

DSGN 101. Design Fundamentals (3)
Lec-35, Lab-70, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Foundational design course, covering the theories, processes, vocabulary, and techniques common to visual design disciplines. Students will develop and apply their knowledge through analysis, critique and individual and collaborative exercises and projects. UC/CSU
DSGN 101 = VMD 101 = PHOT 100

DSGN 105. Design Thinking (1.5)
Lec-26.25 P/NP available
Design thinking is an iterative process of discovery, ideation, and experimentation to gain insight and produce innovative experiences, processes and products. This course will introduce design thinking models and processes through historical and contemporary practice. Hands-on exercises will provide practice with design thinking activities for visual artists, designers, engineers, makers and others. UC/CSU
DSGN 105 Design Thinking is written as a companion course to DSGN 110/VMD 112 Design Drawing Techniques.
Offered Spring semesters

DSGN 110. Design Drawing Techniques (1.5)
Lec-17.5, Lab-35 P/NP available
Recommended Prep: (DSGN 101 or VMD 101 or PHOT 100) and (Readiness for college-level English or ESL 188)
Quick sketching methods for ideation and visual problem solving for designers, animators, illustrators and makers. Terminology, techniques and conventions of rapid visualization are covered, with hands-on practice with line, shape, form, perspective, lighting, shade and shadow. UC/CSU
DSGN 110=VMD 112
Offered Fall semesters

DSGN 150. Color in Design (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: Completion of or concurrent enrollment in: (DSGN 101 or VMD 101 or PHOT 100) and VMD 105
An exploration and application of the historical, cultural symbolic personal and professional uses of color through individual and collaborative projects. Topics include the properties and theory of color; creating color relationships and harmonies; and optical, psychological and spatial uses of color in various media and design disciplines. UC/CSU
DSGN 150 = VMD 118

Ethnic Studies

Credit, Degree Applicable Courses:

ETHN 37. Introduction to Ethnic Studies (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to concepts, theories, definitions, methodologies, and social policy related to the history, culture, concerns, and conditions of the field of Ethnic Studies. Employs critical race theory, intersectionality, and Indigenous methodologies to analyze and articulate cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, and patterns of interaction between various racial and ethnic groups. CSU
C-ID SOCI 150
Crosslisted with IDST 37

ETHN 45. Pacific Islanders in the United States (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines Pacific Islander migrations to the United States mainland including the history, culture, and politics of Hawai'i and U.S. Pacific territories. It explores indigenous cultures and American experiences of Pacific Islanders from Guam, American Samoa, Palau, Marshall Islands, Fiji, Samoa, Tonga, Tahiti, New Zealand, and Australia. CSU
Cross listed with IDST 45.

Interior Design*

*See Architecture.

Italian

Office: Art 202
Phone Number: (415) 239-3223
Web Site: *www.ccsf.edu/worl*

Announcement of Curricula

Italian Major (AA)

The Italian program provides instruction in developing a student's ability to communicate in both written and oral Italian, through the intermediate level and to gain a knowledge of Italian culture. The program is designed to meet transfer goals as well as personal development and career growth.

Degree Curriculum. The Degree Curriculum in Italian is a two-year course of study designed to build a strong language foundation as well as expose students to Italian cultural content and some literature. Students who complete the curriculum are better prepared to transfer to the CSU and UC systems as well as other universities with the intent of majoring or minoring in Italian.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret oral and written Italian texts applying knowledge of intermediate vocabulary and structures.

- Apply a range of intermediate vocabulary, grammar, and syntax to communicate in oral and written Italian.
- Analyze and synthesize aspects of Italian culture and society.

Assuming students start this AA with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Italian

Course . . . . . Units

Choose 15 units from the following

ITAL 2 Continuation of Elementary Italian 5.0
or ITAL 2A Continuation of Elementary Italian 3.0
and ITAL 2B Continuation of Elementary Italian 3.0
ITAL 3A Continuation of Intermediate Italian 3.0
and ITAL 3B Continuation of Intermediate Italian 3.0
ITAL 4A Continuation of Intermediate Italian 3.0
and ITAL 4B Continuation of Intermediate Italian 3.0

Choose 3 units from the following

ITAL 1 Elementary Italian 5.0
or ITAL 1A Elementary Italian 3.0
and ITAL 1B Elementary Italian 3.0
ITAL 10B Beginning Conversational Italian 3.0
ITAL 10C Intermediate Conversational Italian 3.0
ITAL 10D Intermediate Conversational Italian 3.0
ITAL 11A Continuation of Intermediate Conversational Italian 3.0
ITAL 11B Continuation of Intermediate Conversational Italian 3.0
ITAL 15A Advanced Conversational Italian 3.0
ITAL 15B Advanced Conversational Italian. 3.0

Total: 18.0

Italian Certificate

The Certificate of Accomplishment in Italian provides students, prospective employers and others with documented evidence of persistence and academic accomplishment in Italian.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret the main points of standard spoken and written Italian relating to everyday matters.
- Communicate in spoken Italian using a range of vocabulary, language functions, and sentence structures.
- Write simple connected text using a range of intermediate Italian vocabulary, grammar and sentence structures.
- Compare aspects of Italian culture and society.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Italian

Course . . . . . Units

Choose 9 units from the following

ITAL 1 Elementary Italian 5.0
or ITAL 1A Elementary Italian 3.0
and ITAL 1B Elementary Italian 3.0
ITAL 2 Continuation of Elementary Italian. 5.0
or ITAL 2A Continuation of Elementary Italian 3.0
and ITAL 2B Continuation of Elementary Italian 3.0
ITAL 3A Continuation of Intermediate Italian 3.0
and ITAL 3B Continuation of Intermediate Italian 3.0
ITAL 4A Continuation of Intermediate Italian 3.0
and ITAL 4B Continuation of Intermediate Italian 3.0

Choose 6 units from the following

ITAL 10A Beginning Conversational Italian 3.0
ITAL 10B Beginning Conversational Italian 3.0
ITAL 10C Intermediate Conversational Italian 3.0
ITAL 10D Intermediate Conversational Italian 3.0
ITAL 11A Continuation of Intermediate Conversational Italian 3.0
ITAL 11B Continuation of Intermediate Conversational Italian 3.0
ITAL 15A Advanced Conversational Italian 3.0
ITAL 15B Advanced Conversational Italian. 3.0

Total: 15.0

Announcement of Courses

Students of beginning Italian are directed to consider Italian 1, 1A and 10A.

Credit, Degree Applicable Courses:

ITAL 1. Elementary Italian (5)
Lec-87.5 P/NP available
Recommended Prep: ESL 188 or readiness for college-level English or (any City College or university foreign language course)
This introductory course will develop the four basic skills of listening, speaking, reading and writing in Italian. This course also introduces some cultural aspects of Italy. UC/CSU
ITAL 1A + 1B = ITAL 1

ITAL 1A. Elementary Italian (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 188 or readiness for college-level English or (any City College or University foreign language course)
This introductory course will develop the four basic skills of listening, speaking, reading and writing in Italian. This course also introduces some cultural aspects of Italy. The first half of the elementary course. UC/CSU
ITAL 1A + 1B = ITAL 1

ITAL 1B. Elementary Italian (3)
Lec-52.5 P/NP available
Prereq: ITAL 1A or demonstration of ITAL 1A exit skills.
This introductory course will develop the four basic skills of listening, speaking, reading and writing in Italian. This course also introduces some cultural aspects of Italy. The latter half of the elementary course. UC/CSU
ITAL 1A + 1B =ITAL 1

ITAL 2. Continuation of Elementary Italian (5)
Lec-87.5 P/NP available
Prereq: ITAL 1 or ITAL 1B or demonstration of ITAL 1/1B exit skills
Second semester course. This continuation of Italian elementary course will develop the four basic skills of listening, speaking, reading and writing. This course also introduces some cultural aspects of Italy. UC/CSU
ITAL 2A + 2B = ITAL 2

ITAL 2A. Continuation of Elementary Italian (3)
Lec-52.5 P/NP available
Prereq: ITAL 1 or ITAL 1B or demonstration of ITAL 1/1B exit skills
Second semester course. This continuation of Italian elementary course will develop the four basic skills of listening, speaking, reading and writing. This course is the first half of Elementary Italian 2. This course also introduces some cultural aspects of Italy. UC/CSU
ITAL 2A + 2B = ITAL 2

ITAL 2B. Continuation of Elementary Italian (3)
Lec-52.5 P/NP available
Prereq: ITAL 2A or demonstration of ITAL 2A exit skills
Second semester course. This continuation of Italian elementary course will develop the four basic skills of listening, speaking, reading, and writing. The latter half of the elementary course Italian 2.This course also introduces some cultural aspects of Italy. UC/CSU
ITAL 2A + 2B = ITAL 2

ITAL 3A. Intermediate Italian (3)
Lec-52.5 P/NP available
Prereq: ITAL 2 or ITAL 2B or demonstration of exit skills
Review of grammar and composition; reading of cultural and literary materials. Constant practice in the use and comprehension of the spoken language. Conducted in Italian. UC/CSU
May be taken non-sequentially

ITAL 3B. Intermediate Italian (3)
Lec-52.5 P/NP available
Prereq:ITAL 2 or or ITAL 2B or demonstration of exit skills.
Review of grammar and composition; reading of cultural and literary materials. Constant practice in the use and comprehension of the spoken language, Conducted in Italian. UC/CSU
May be taken non-sequentially.
Offered on occasion

ITAL 4A. Continuation of Intermediate Italian (3)
Lec-52.5 P/NP available
Prereq: ITAL 3A and ITAL 3B or demonstration of exit skills.
Intensive review of grammar and essay composition, constant practice in the comprehension and use of the spoken language to build on the introduction to intermediate Italian established in Italian 3a/3b. Conducted in Italian. ITAL 4A and ITAL 4B may be taken non-sequentially. UC/CSU
May be taken non-sequentially
Offered on occasion

ITAL 4B. Continuation of Intermediate Italian (3)
Lec-52.5 P/NP available
Prereq: ITAL 3A and ITAL 3B or demonstration of exit skills.
Intensive review of grammar and essay composition, constant practice in the comprehension and use of the spoken language to build on the introduction to intermediate Italian established in Italian 3A/3B. Conducted in Italian. ITAL 4A and ITAL 4B may be taken non-sequentially. UC/CSU
May be taken non-sequentially
Offered on occasion

ITAL 10A. Beginning Conversational Italian (3)
Lec-52.5 P/NP available
Beginner's course. Intensive oral practice of basic structures and vocabulary most often used in conversation. Designed for students who wish to acquire basic skills of spoken Italian. CSU
Not recommended for native speakers of Italian.

ITAL 10B. Continuation of Beginning Conversational Italian (3)
Lec-52.5 P/NP available
Recommended Prep: ITAL 10A
Second semester course. Continuation of oral practice of structures and vocabulary of spoken Italian. CSU
Not recommended for native speakers of Italian.

ITAL 10C. Intermediate Conversational Italian (3)
Lec-52.5 P/NP available
Recommended Prep: ITAL 10B
Continuation of oral practice of advanced structures and vocabulary of spoken Italian. CSU
Not recommended for native speakers of Italian.

ITAL 10D. Continuation of Intermediate Conversational Italian (3)
Lec-52.5 P/NP available
Recommended Prep: ITAL 10C
Continuation of oral practice of advanced structures and vocabulary of spoken Italian. CSU
Not recommended for native speakers of Italian. Recommended for students enrolled in ITAL 2B or 3.

ITAL 11A. Continuation of Intermediate Conversational Italian (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ITAL 10D or ITAL 2 or (ITAL 2A and ITAL 2B)
Continuation of extensive oral training of advanced structures and vocabulary of spoken intermediate Italian.The major difference between Italian 11A and 11B is in reading and oral assignments. The courses focus on specific topics (literature, fine arts, and current affairs) but also include different grammar topics. CSU
Not recommended for native speakers of Italian.
Offered on occasion

ITAL 11B. Continuation of Intermediate Conversational Italian (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ITAL 10D or ITAL 2 or (ITAL 2A and ITAL 2B)
Continuation of extensive oral training of advanced structures and vocabulary of spoken intermediate Italian.The major difference between Italian 11A and 11B is in reading and oral assignments. The courses focus on specific topics (literature, fine arts, and current affairs) but also include different grammar topics. CSU
Not recommended for native speakers of Italian.
Offered on occasion

ITAL 15A. Advanced Conversational Italian (3)
Lec-52.5 P/NP available
Recommended Prep: ITAL 3 or (ITAL 3A and ITAL 3B)
Continuation of extensive oral training in Italian. Designed for students who wish to acquire more advanced skills in conversational Italian. The major difference between Italian 15A and 15B is in reading and oral assignments. The courses focus on specific topics (literature, fine arts, current affairs) but include different grammar topics. UC/CSU
ITAL 15A not prerequisite to 15B
Offered on occasion

ITAL 15B. Advanced Conversational Italian (3)
Lec-52.5 P/NP available
Recommended Prep: ITAL 3 or (ITAL 3A and ITAL 3B)
Continuation of extensive oral training in Italian. Designed for students who wish to acquire more advanced skills in conversational Italian. The

major difference between Italian 15A and 15B is in reading and oral assignments. The courses focus on specific topics (literature, fine arts, current affairs) but include different grammar topics. UC/CSU
ITAL 15A not prerequisite to 15B
Offered on occasion

Japanese

Office: Art 202
Phone Number: (415) 239-3223
Web Site: *www.ccsf.edu/worl*

Announcement of Curricula

Japanese Major (AA)

The Japanese program provides instruction in developing a student's ability to communicate in both written and oral Japanese through the intermediate level and to gain a knowledge of Japanese culture. The program is designed to meet transfer goals as well as personal development and career growth.

Degree Curriculum. The Degree Curriculum in Japanese is a two-year course of study designed to build a strong language foundation as well as expose students to Japanese cultural content and some literature. Students who complete the curriculum are very well prepared to transfer to the CSU and UC systems as well as other universities with the intent of majoring or minoring in Japanese.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret oral and written Japanese texts by applying knowledge of intermediate vocabulary and structures.
- Apply a range of intermediate Japanese vocabulary, grammar, and syntax to communicate in oral and written Japanese.
- Analyze and synthesize aspects of Japanese culture and society.

Assuming students start this AA with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Japanese

Course	Units
Choose 15 units from the following	
JAPA 2 Continuation of Elementary Japanese	5.0
or JAPA 2A Continuation of Elementary Japanese	3.0
and JAPA 2B Continuation of Elementary Japanese	3.0
JAPA 3 Intermediate Japanese	5.0
or JAPA 3A Intermediate Japanese	3.0
and JAPA 3B Intermediate Japanese	3.0
JAPA 4 Continuation of Intermediate Japanese	5.0
or JAPA 4A Continuation of Intermediate Japanese	3.0
and JAPA 4B Continuation of Intermediate Japanese	3.0
JAPA 16 Beginning Kanji for Reading and Writing	3.0
Choose 3 units from the following	
JAPA 1 Elementary Japanese	5.0
or JAPA 1A Elementary Japanese	3.0
and JAPA 1B Elementary Japanese	3.0
JAPA 10B Beginning Conversational Japanese	3.0
JAPA 10C Intermediate Conversational Japanese	3.0
JAPA 39 Japanese Culture and Civilization	3.0
Total:	**18.0**

Japanese Certificate

The Certificate of Achievement in Japanese provides students, prospective employers and others with documented evidence of persistence and academic achievement in the Japanese language at an intermediate level.

Note that JAPA 1A + 1B = JAPA 1; JAPA 2A + 2B = JAPA 2; JAPA 3A + 3B = JAPA 3; JAPA 4A + 4B = JAPA 4

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret the main points of standard spoken and written Japanese relating to everyday matters.
- Communicate in spoken Japanese by using a range of vocabulary, language functions, and sentence structures at an intermediate level.
- Write simple connected text using a range of intermediate Japanese vocabulary, grammar, and sentence structures.
- Compare aspects of Japanese culture and society.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Japanese

Course	Units
Choose at least 5 units from the following	
JAPA 3 Intermediate Japanese	5.0
or JAPA 3A Intermediate Japanese	3.0
and JAPA 3B Intermediate Japanese	3.0
Choose at least 11 units from the following	
JAPA 1 Elementary Japanese	5.0
or JAPA 1A Elementary Japanese	3.0
and JAPA 1B Elementary Japanese	3.0
JAPA 2 Continuation of Elementary Japanese	5.0
or JAPA 2A Continuation of Elementary Japanese	3.0
and JAPA 2B Continuation of Elementary Japanese	3.0
JAPA 4 Continuation of Intermediate Japanese	5.0
or JAPA 4A Continuation of Intermediate Japanese	3.0
and JAPA 4B Continuation of Intermediate Japanese	3.0
JAPA 10A Beginning Conversational Japanese	3.0
JAPA 10B Beginning Conversational Japanese	3.0
JAPA 10C Intermediate Conversational Japanese	3.0
JAPA 16 Beginning Kanji for Reading and Writing	3.0
JAPA 17 Continuation of Beginning Kanji for Reading and Writing	3.0
JAPA 18 Intermediate Kanji for Reading and Writing	3.0
JAPA 39 Japanese Culture and Civilization	3.0
Total:	**16.0 – 17.0**

Announcement of Courses

Students of beginning Japanese are directed to consider JAPA 1, 1A, and 10A.

A placement test is available; call 239-3223.

Credit, Degree Applicable Courses:

JAPA 1. Elementary Japanese (5)
Lec-87.5 P/NP available
Recommended Prep: ESL 188 or readiness for college-level English or (any community college or university foreign language course)
Introductory course in Japanese language. Elementary level of four language skills (listening, speaking, reading and writing) will be developed. The course also will introduce cultural aspects of Japan. Mastering of two of the Japanese syllabic writing systems, hiragana and katakana is required. The simple kanji (Chinese characters) will also be introduced. UC/CSU
JAPA 1 = JAPA 1A + JAPA 1B

JAPA 1A. Elementary Japanese (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 188 or readiness for college-level English or (any City College or university foreign language course)
This is half of the introductory course in Japanese language. Elementary level of four language skills (listening, speaking, reading and writing) will be developed. The course also will introduce cultural aspects of Japan. Mastering of the Japanese syllabic writing system hiragana is required. UC/CSU
JAPA 1A+1B = JAPA 1

JAPA 1B. Elementary Japanese (3)
Lec-52.5 P/NP available
Prereq: JAPA 1A or demonstration of JAPA 1A exit skills.
The latter half of the introductory course in Japanese language. Elementary level of four language skills (listening, speaking, reading and writing) will be developed. The course also will introduce cultural aspects of Japan. Mastering of the Japanese syllabic writing system katakana is required. Simple kanji (Chinese characters) will also be introduced. UC/CSU
JAPA 1A + 1B = JAPA 1

JAPA 2. Continuation of Elementary Japanese (5)
Lec-87.5 P/NP available
Prereq: JAPA 1 or JAPA 1B or demonstration of exit skills
Second semester course. The course enhances students' abilities in reading, writing, speaking, listening and understanding of Japanese culture. UC/CSU

JAPA 2A. Continuation of Elementary Japanese (3)
Lec-52.5 P/NP available
Prereq: JAPA 1 or JAPA 1B or demonstration of exit skills
The first half of second semester course. The course enhances students' abilities in reading, writing, speaking, listening and understanding of Japanese culture. UC/CSU
JAPA 2A + 2B = JAPA2

JAPA 2B. Continuation of Elementary Japanese (3)
Lec-52.5 P/NP available
Prereq: JAPA 2A or demonstration of exit skills
The latter half of second semester course. The course enhances students' abilities in reading, writing, speaking, listening and understanding of Japanese culture. UC/CSU
JAPA 2A + 2B = JAPA 2

JAPA 3. Intermediate Japanese (5)
Lec-87.5 P/NP available
Prereq: JAPA 2 or JAPA 2B or demonstration of exit skills
Third semester course. The course, which is conducted in Japanese, enhances students' abilities on reading, writing, speaking, listening and understanding of Japanese culture. UC/CSU

JAPA 3A. Intermediate Japanese (3)
Lec-52.5 P/NP available
Prereq: JAPA 2 or JAPA 2B or demonstration of exit skill
The first half of third semester course. The course, which is conducted in Japanese, enhances students' abilities in reading, writing, speaking, listening and understanding of Japanese culture. UC/CSU
JAPA 3A + 3B = JAPA 3

JAPA 3B. Intermediate Japanese (3)
Lec-52.5 P/NP available
Prereq: JAPA 3A or demonstration of exit skills
The second half of third semester course. The course, which is conducted in Japanese, enhances students' abilities in reading, writing, speaking, listening and understanding of Japanese culture. UC/CSU
JAPA 3A + 3B = JAPA 3

JAPA 4. Continuation of Intermediate Japanese (5)
Lec-87.5 P/NP available
Prereq: JAPA 3 or JAPA 3B or demonstration of exit skills
Fourth semester course. The course, which is conducted in Japanese, enhances students' abilities in reading, writing, speaking, listening and understanding of Japanese culture. UC/CSU
Offered Spring semesters

JAPA 4A. Continuation of Intermediate Japanese (3)
Lec-52.5 P/NP available
Prereq: JAPA 3 or 3B or demonstration of JAPA 3/3B exit skills
The first half of the fourth semester course. The course is conducted in Japanese and enhances students' abilities in reading, writing, speaking, listening and understanding of Japanese culture. UC/CSU
JAPA 4A+4B = JAPA 4
Offered Spring semesters

JAPA 4B. Continuation of Intermediate Japanese (3)
Lec-52.5 P/NP available
Prereq: JAPA 4A or demonstration of JAPA 4A exit skills
The latter half of the fourth semester course. The course, which is conducted in Japanese, enhances students' abilities in reading, writing, speaking, listening and understanding of Japanese culture. UC/CSU
JAPA 4A + 4B = JAPA 4
Offered Spring semesters

JAPA 10A. Beginning Conversational Japanese (3)
Lec-52.5 P/NP available
This is a beginner's course and the first of a series of three conversational courses. This course offers Intensive oral practice of basic structures and vocabulary most often used in conversation and is designed for students who wish to acquire basic skills of spoken Japanese. CSU
Recommended all beginning students of Japanese. Not Recommended for native speakers of the language.

JAPA 10B. Beginning Conversational Japanese (3)
Lec-52.5 P/NP available
Recommended Prep: JAPA 10A or demonstration of exit skills
This is the beginner's course and the second of a series of three conversational courses. The course offers Intensive oral practice of basic

structures and vocabulary most often used in conversation and is designed for students who wish to acquire basic skills of spoken Japanese. CSU
Not recommended for native speakers of Japanese.
Offered Spring semesters

JAPA 10C. Intermediate Conversational Japanese (3)
Lec-52.5 P/NP available
Recommended Prep: JAPA 10B or demonstration of exit skills
This is the intermediate course and the third of a series of three conversational courses. This course offers intensive oral practice of basic sentence structure and vocabulary most often used in conversation and is deigned for students who wish to acquire more advanced skills of spoken Japanese. CSU
Recommended for all intermediate learners of Japanese. Not recommended for native speakers of the language.
Offered on occasion

JAPA 16. Beginning Kanji for Reading and Writing (3)
Lec-52.5 P/NP available
Recommended Prep: JAPA 1 or JAPA 1B
Intensive study of kanji characters to increase competence in reading and writing Japanese and in understanding authentic materials. UC/CSU

JAPA 17. Continuation of Beginning Kanji for Reading and Writing (3)
Lec-52.5 P/NP available
Prereq: JAPA 16 or demonstration of exit skills
Intensive study of advanced beginning level of kanji characters to increase competence in reading and writing Japanese and in understanding authentic materials. UC/CSU

JAPA 18. Intermediate Kanji for Reading and Writing (3)
Lec-52.5 P/NP available
Prereq: JAPA 17 or demonstration of exit skills
Intensive study of basic intermediate level of kanji characters to increase competence in reading and writing Japanese and in understanding authentic materials. UC/CSU
Offered on occasion

JAPA 39. Japanese Culture and Civilization (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A consideration of the major achievements of Japanese culture as reflected in language, literature, art, religion, and daily life. No knowledge of Japanese required. UC/CSU
No knowledge of Japanese language required. Not recommended for students who are enrolled in or have completed JAPA 49.
Offered on occasion

Journalism

Office: Bungalow 615
Phone Number: (415) 239-3446
Web Site: *www.ccsf.edu/journal*

Announcement of Curricula

General Information

The Journalism Program prepares students for a two-year degree, transfer to a four-year program, or professional development in select areas of study. All journalism classes are credit classes and are offered on the Ocean Campus and Mission Center. Enrollment in the various program areas is open to all interested students. Prospective students are encouraged to meet with a program adviser to discuss program specifics and articulation agreements.

Journalism Major (AA-T)

A degree in Journalism builds in students a strong foundation for a wide variety of educational and career pathways that can lead to careers in journalism, public relations, content marketing, and beyond. This is achieved through courses that emphasize skills in researching, writing, and editing content for publication in a variety of media.

The Journalism AA-T prepares students who wish to transfer and pursue a baccalaureate degree in Journalism or a related field, particularly at the California State University campuses. It is advised that potential majors meet with an affiliated counselor or department chair to discuss educational goals, course options, and transfer issues.

Learning Outcomes

Upon completion of this program, students will be able to:

- Research, write, and edit news and feature stories for publication in print and in multimedia platforms.
- Produce journalistic content that demonstrates good news judgment, accuracy, and adherence to style guidelines.
- Apply good work habits, time management and professionalism while working collaboratively and under deadline pressure to produce news content.
- Explain the role of journalists in modern society.
- Analyze various aspects of power, culture, or identity shaping societies covered by journalists.

Degree Requirements

Students who wish to earn the Journalism AA-T major must meet the following requirements:

- Complete 60 CSU-transferable semester units, including a minimum of 18 units for the degree as specified below
- Earn a minimum grade point average (GPA) of at least a 2.0
- Complete all courses in the major with a minimum grade of "C" (or "P" if applicable)
- Complete Intersegmental General Education Transfer Curriculum (IGETC) and/or CSU General Education-Breadth (CSU GE Breadth) requirements

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Journalism

Course	Units
Required courses:	
JOUR 19 Contemporary News Media	3.0
JOUR 21 News Reporting and Writing	3.0
JOUR 24 News Production I	3.0
or JOUR 29A Introduction to Magazine Editing and Production	3.0
LIST A: Choose one of the following courses	
JOUR 35 Data and Multimedia Journalism	3.0
JOUR 36 Investigative Reporting	3.0
JOUR 26 Fundamentals of Public Relations	3.0

JOUR 29B Intermediate Magazine Editing and Production 3.0

LIST B: Choose two of the following courses

JOUR 22 Feature Writing 3.0
JOUR 23 Copy Editing 3.0
JOUR 37 Introduction to Photojournalism 3.0
CMST 3 Argumentation and Debate 3.0
ECON 1 Principles of Macroeconomics 3.0
ECON 3 Principles of Microeconomics 3.0
ENGL 1B Writing about Literature 4.0
ENGL 1C Writing about Nonfiction 4.0
or PHIL 40 Introduction to Logic: Critical Thinking 3.0
HIST 41A African American History From Ancestral West Africa to the Civil War 3.0
HIST 41B 20th Century African American History from the Reconstruction to 21st Century 3.0
LALS 1 The Latinx Experience in the United States 3.0
POLS 1 American Government 3.0
POLS 2 Comparative Government 3.0
ECON 5 Introductory Statistics for Economics, Business and Social Sciences 5.0
or LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies 5.0
or MATH 80 Probability and Statistics 5.0
or PSYC 5 Statistics for Behavioral Sciences 5.0

Total: . . . . . 18.0 – 21.0

Journalism Major (AA)

The Associate of Arts in Journalism is a program of study with courses that fulfill graduation requirements for the college and transferable requirements to many CSU, UC and private universities. Through departmental core courses and interdepartmental courses, students obtain skills in research, writing, and production skills that are essential to a career in journalism and related fields. This is achieved through courses that emphasize skills in researching, writing, and editing content for publication in a variety of media.

Learning Outcomes

Upon completion of this program, students will be able to:

- Research, write, and edit news and feature stories for publication in print and in multimedia platforms.
- Apply writing and design skills to the publication of newspapers and magazines.
- Explain the role of journalists in modern society.
- Articulate the impact of the mass media on society.

Degree Requirements

Students who wish to earn the Journalism AA Major must meet the following requirements:

- Complete 60 semester units, including a minimum of 24 units for the degree as specified below
- Earn a minimum grade point average (GPA) of at least a 2.0
- Complete all courses in the major with a minimum grade of "C" (or "P" if applicable)

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is 4 semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Journalism

Course . . . . . Units

Required

JOUR 19 Contemporary News Media 3.0
JOUR 21 News Reporting and Writing 3.0
JOUR 22 Feature Writing 3.0
JOUR 24 News Production I 3.0
JOUR 29A Introduction to Magazine Editing and Production 3.0

Select 9 units from the following

JOUR 23 Copy Editing 3.0
JOUR 25 News Production II 3.0
JOUR 26 Fundamentals of Public Relations 3.0
JOUR 35 Data and Multimedia Journalism 3.0
JOUR 36 Investigative Reporting 3.0
JOUR 37 Introduction to Photojournalism 3.0
JOUR 38 Intermediate Photojournalism 3.0

Total: 24.0

Certificate Curricula

City College offers two certificate programs in Journalism, On-line Research Techniques and Editorial Management and Design. A student will receive a Certificate of Achievement after finishing the course of study with grades of "C" or higher in all courses. The Certificate programs are designed for working journalists interested in upgrading skills, students returning to school in search of new career opportunities, or currently enrolled students in the program. A student may receive a certificate while still working on a degree.

Data Journalism Certificate

The Data Journalism certificate combines aspects of information gathering and news/feature writing techniques which include finding, collecting and analyzing data for storytelling and investigative reporting. Students will be well versed in the creation of news and feature stories for publication in various media outlets. Students may be able to obtain jobs as a data journalist, news reporter, and feature writer.

Learning Outcomes

Upon completion of this program, students will be able to:

- Report, write, and edit news and feature stories for various media outlets.
- Explain the changing skill demands of data journalists in a modern society.
- Articulate career opportunities in data journalism.
- Create a professional portfolio of published journalistic works.

The minimum time for completion of this certificate is three semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Data Journalism

Course . . . . . Units

First Semester:

JOUR 19 Contemporary News Media 3.0

JOUR 21 News Reporting and Writing. 3.0

Second Semester:

LI S 10 Introduction to Research Skills. 1.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies 5.0
or PSYC 5 Statistics for Behavioral Sciences. 5.0
or ECON 5 Introductory Statistics for Economics, Business and Social Sciences. 5.0

Third Semester:

JOUR 35 Data and Multimedia Journalism. 3.0
JOUR 36 Investigative Reporting 3.0

Recommended additional coursework:

JOUR 22 Feature Writing 3.0
JOUR 23 Copy Editing 3.0
JOUR 24 News Production I 3.0
JOUR 37 Introduction to Photojournalism 3.0
CS 256 Data Visualization 3.0
PHIL 40 Introduction to Logic: Critical Thinking 3.0

Total: 18.0

Editorial Management and Design Certificate

The Editorial Management and Design certificate combines editorial content with aspects of creative design techniques. Students will be well versed in the creation of eye-catching page designs for newspapers and magazines.

Learning Outcomes

Upon completion of this program, students will be able to:

- Collaborate with editors in creating newspaper and/or magazine typography.
- Assess and employ creative design techniques for newspapers and magazines.
- Collaborate with printers in the production of newspapers and magazines.
- Create a professional portfolio of published journalistic work.

The minimum time for completion of this certificate is three semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Editorial Management and Design

Course . . . . . Units

First semester:

JOUR 21 News Reporting and Writing. 3.0
VMD 105 Visual Media Digital Skills 3.0

Second semester:

JOUR 37 Introduction to Photojournalism 3.0
VMD 152 InDesign I 3.0

Third semester:

JOUR 24 News Production I 3.0
JOUR 25 News Production II 3.0

Recommended additional coursework:

JOUR 19 Contemporary News Media. 3.0
JOUR 22 Feature Writing 3.0
JOUR 23 Copy Editing 3.0
JOUR 26 Fundamentals of Public Relations 3.0
JOUR 29A Introduction to Magazine Editing and Production 3.0

Total: 18.0

Entrepreneurship and Innovation in Journalism Certificate

This certificate program is designed to prepare students in Journalism to engage in the world of entrepreneurship. The program's interdisciplinary approach to entrepreneurship equips students with relevant tools in exploring various pathways to entrepreneurship such as full-time business ownership, sub-contracting (freelancing), consulting, corporate intrapreneurship or mission-driven social entrepreneurship. Students will utilize common tools and techniques to produce engaging and relevant journalism content materials for various media. They will be able to conceptualize, produce, and deliver meaningful journalistic content that appeals to global and digital marketplace. Students who opted to take this program will end up starting their own creative boutique to serve various nonfiction storytelling, marketing, and advertising needs of the industry.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply an entrepreneurial mindset that breeds creativity and innovation in the field of journalism.
- Use terms and concepts related to functional areas of entrepreneurship necessary for startups.
- Analyze the marketing environment to identify entrepreneurial opportunities and areas for growth and development.
- Develop an agile and lean business plan for a startup project/enterprise that is ready for pitching.
- Compare different entrepreneurship pathways in relation to a project or business idea.

Optional areas of emphasis: freelancing and publishing.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Entrepreneurship and Innovation in Journalism

Course . . . . . Units

Required

ENTR 101 Introduction to Entrepreneurship 3.0
ENTR 102 Applied Design Thinking for Entrepreneurship . 1.5
DSGN 105 Design Thinking. 1.5
MRKT 140 Introduction to Marketing. 3.0
JOUR 21 News Reporting and Writing. 3.0

Choose 6 units from the following

For a publishing emphasis, choose JOUR 24 and JOUR 26. For a freelancing emphasis, choose JOUR 36 and JOUR 37.

JOUR 22 Feature Writing 3.0
JOUR 24 News Production I 3.0
JOUR 26 Fundamentals of Public Relations 3.0
JOUR 35 Data and Multimedia Journalism 3.0
JOUR 36 Investigative Reporting 3.0
JOUR 37 Introduction to Photojournalism 3.0

Total: 18.0

Announcement of Courses

Credit, Degree Applicable Courses:

JOUR 19. Contemporary News Media (3)

Lec-52.5, field trips

Recommended Prep: Readiness for college-level English or ESL 188

Introduction to modern mass communication, with an emphasis on

the development of the news media, analysis of the credibility of the media and its impact on daily life. UC/CSU

JOUR 20. Writing for Spanish Bilingual Media (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188; Completion of or concurrent enrollment in: SPAN 31A
Write journalistically in English and Spanish with an emphasis on developing and writing news stories. Study information gathering and interviewing techniques, career opportunities in Spanish bilingual media, particularly newspapers, and the early history and evolution of Spanish-language newspapers in the United States. The course is taught in English, but the student should have some command of conversational Spanish, as well as basic Spanish writing skills. CSU

JOUR 21. News Reporting and Writing (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
The courses focuses on techniques of newspaper reporting, developing and writing a news story, training in information gathering and interviewing sources. It also examines career opportunities in the industry. CSU
C-ID JOUR 110

JOUR 22. Feature Writing (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Fundamentals in feature writing for magazines and newspapers with special emphasis on profile and interpretive news features. This course provides practical experience in interview and in-depth research techniques. Training in how to write a freelance story for publication. CSU

JOUR 23. Copy Editing (3)
Lec-52.5 P/NP available
Prereq: JOUR 21
This course is for writers, working editors, and those considering a career in editing or copy editing. Students learn to edit newspapers, magazines and web site articles for accuracy, style and organization. The writer-editor relationship, and ways to keep it healthy, is emphasized throughout the course. CSU
Offered Spring semesters

JOUR 24. News Production I (3)
Lec-35, Lab-52.5 P/NP available
Prereq: JOUR 21
Recommended Prep: JOUR 22
Beginning news production course focused on the publication of the college news outlet The Guardsman. Provides a practical understanding of the various elements involved in producing a newspaper and website. CSU
C-ID JOUR 130
Formerly Newspaper Laboratory
Offered Fall semesters

JOUR 25. News Production II (3)
Lec-52.5, field trips
Prereq: JOUR 24
An intermediate exploration into the process of creating a news publication. Students work as reporters producing journalistic content and editors focusing on editing content suitable for publication in the campus news publication. They participate in the editorial and production process and develop the skills required for publishing. CSU
Formerly titled Editorial Management
Offered Spring semesters

JOUR 26. Fundamentals of Public Relations (3)
Lec-52.5
Recommended Prep: JOUR 24, and VMD 105
Prepares students to create an effective public relations campaign that includes writing media releases, "pitch" letters, public service announcements, managing media outlets, coordinating mailings, and designing leaflets and posters, as well as setting up a news conference. Special attention is given to in-house public relations duties for corporate and non-profit entities. CSU
C-ID JOUR 150

JOUR 29A. Introduction to Magazine Editing and Production (3)
Lec-35, Lab-52.5, field trips
Recommended Prep: JOUR 21 or JOUR 22 or JOUR 37
An introduction to the process of creating a magazine publication. Students work as part of a staff of writers and photographers, focusing on writing and photographing feature stories suitable for publication in the campus magazine. They study the editorial and production process and the skills required for publishing a campus magazine. Appropriate for students interested in creative writing, graphic arts, photojournalism and journalism who have not yet taken a campus magazine publishing class. CSU
Formerly JOUR 29.

JOUR 29B. Intermediate Magazine Editing and Production (3)
Lec-35, Lab-52.5, field trips
Prereq: JOUR 29 or JOUR 29A
An intermediate exploration into the process of creating a magazine publication. Students work as editors focusing on editing content suitable for publication in the campus magazine. They participate in the editorial and production process and develop the skills required for publishing a campus magazine. Appropriate for students interested in editing and production who have completed an introductory campus magazine publishing class. CSU

JOUR 29C. Advanced Magazine Editing and Production (3)
Lec-35, Lab-52.5, field trips
Prereq: JOUR 29B
An advanced exploration into the process of creating a magazine publication. Students work in management positions focusing on leading a staff in producing content suitable for publication in the campus magazine. They facilitate the editorial and production process and develop the skills required to manage the publication of a campus magazine. Appropriate for students interested in editing and production who have completed an intermediate level campus magazine publishing class. CSU

JOUR 31. Internship Experience (1-2)
Work-60-150
Prereq: Approval of the Journalism Department
Recommended Prep: JOUR 24
Repeat: Repeated up to 6.00 Units
Supervised on-campus or off-campus employment in the journalism field that is adaptable to the student. This could include experiences such as working on community based newspapers, publishing on the Internet, or improving the journalism-publishing program at CCSF for the betterment of the larger community. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU

JOUR 32. Independent Study (1)
Lab-52.5 P/NP available
Student will conduct individual project to be defined in cooperation with an instructor. The project medium can vary but it must be in reporting, photojournalism, media research, multimedia, data journalism, or public relations. CSU
Offered on occasion

JOUR 35. Data and Multimedia Journalism (3)
Lec-52.5 P/NP available
Recommended Prep: JOUR 21
The course gives hands-on training on spreadsheet, database, and visualization skills with special emphasis on new trends in the delivery of news. CSU
C-ID JOUR 120
Formerly Internet Journalism

JOUR 36. Investigative Reporting (3)
Lec-52.5
Recommended Prep: JOUR 21
The course provides advanced concepts of news gathering, interviewing and writing. Students will be assigned beats covering neighborhood communities and local government. Extensive research, interviewing, meeting coverage and writing involved. Students will improve and expand their news gathering and writing skills. CSU
C-ID JOUR 210

JOUR 37. Introduction to Photojournalism (3)
Lec-52.5
Recommended Prep: PHOT 51 or demonstration of equivalent knowledge
Concepts of photojournalism such as news and feature photography. Assignments involve photographing people and visual storytelling at a level appropriate for publication such as in campus publications. Access to Single Lens Reflex (SLR) digital or film camera required. CSU

JOUR 38. Intermediate Photojournalism (3)
Lec-52.5 P/NP available
Prereq: JOUR 37
Emphasizes concepts of photojournalism at an intermediate level. Assignments will involve photographing people and visual storytelling at a professional entry-level appropriate for use in publications such as newspapers and magazines. Emphasizes integration of traditional photojournalism with new media technology reflecting current professional trends in photojournalism. Digital SLR or mirrorless camera required. CSU
Offered Spring semesters

Labor and Community Studies

Office: Evans
Phone Number: (415) 239-3200
Web Site: *www.ccsf.edu/labr*

Announcement of Curricula

Degree Curriculum

The Labor and Community Studies Department offers a two-year transfer degree program in Social Justice with an area of emphasis in labor and community advocacy. It teaches students the contributions of working-class people to American Society, with a special focus on organized labor, immigrants, people of color, women, and LGBTQ people. It gives a thorough grounding in the rights of employees, including union rights, through a course of study that examines class history, economics, politics, art, and social change. It offers specialized instruction in the history and current status of movements for social change and prepares students to transfer into a variety of CSU majors in social sciences, behavioral science, and ethnic studies, among others.

Social Justice Studies: General - Labor and Community Studies Major (AA-T)

The Associate of Arts in Social Justice: Labor and Community Studies for Transfer prepares students to pursue studies in working class history and workplace justice, and for careers in labor and community advocacy.

The Social Justice Transfer Model Curriculum (TMC) is an "area of emphasis" (AOE) and has specifically been designed to prepare students for transfer into a variety of CSU Majors, such as

- African American Studies
- Africana Studies
- American Indian Studies
- American Studies
- Arabic Language, Literature and Culture
- Asian American Studies
- Chicano/Chicana Studies
- Ethnic Studies
- Gender Studies
- Labor and Employment Studies
- Labor Studies
- Latin American Studies
- Liberal Studies w/Option in Interdisciplinary Studies in Culture & Society
- Liberal Studies Border Studies w/Option in Mexican-American Studies
- Modern Jewish Studies
- Negotiation, Conflict Resolution and Peace building
- Sociology with a concentration in Critical Race Studies
- Sociology with a concentration Race, Class, and Gender
- Sociology with Inequalities and Diversity Option
- Social Science with Emphasis in Islamic and Arabic Studies
- Women, Gender, and Sexuality Studies
- Women's Studies
- and many other possible CSU majors.

It is advised that potential majors meet with an affiliated counselor or department chair to discuss educational goals, course options, and transfer issues.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze how economic and political power is exercised in the United States.
- Assess the effectiveness of working class movements for social and/or racial justice.
- Analyze the relative merits of various organizing strategies for building labor and/or community power.

Students who wish to earn the Associate of Arts in Social Justice: Labor and Community Studies for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirements may also be used to meet IGETC or CSU GE requirements.

Assuming students start this AA-T with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Social Justice Studies: General - Labor and Community Studies

Course	Units
Required core courses:	
LBCS 70A Who Built America? 1492-1877	3.0
or LBCS 70B Who Built America? From Reconstruction to the Present	3.0
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified	3.0
IDST 37 Introduction to Ethnic Studies	3.0
Select 3 courses from at least two of the following areas:	
Area 1: History and Government	
LBCS 70A Who Built America? 1492-1877*	3.0
LBCS 70B Who Built America? From Reconstruction to the Present*	3.0
LBCS 88 California Labor History	3.0
Area 2: Arts and Humanities	
LBCS 104A Work Tales- Beginning Performance	3.0
AFAM 60 African American Women in the U.S.	3.0
LGBT 55 Contemporary Global Art and Culture	3.0
ENGL 57 Survey of Women's Literature	3.0
Area 3: Social Science	
ASAM 22 Community Issues & Leadership	3.0
LBCS 15 Latin American Workers in the Americas	3.0
LBCS 96C Labor Relations in the Modern American Workplace	3.0
ECON 25 Women in the Economy	3.0
Area 4: Quantity Reasoning and Research Methods	
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0

* Course may be used to satisfy this area if not used to meet the Core Course requirement.

Total: 18.0 – 20.0

Labor and Community Organizing Certificate

The Labor and Community Organizing Certificate of Achievement prepares students for leadership and employment with labor organizations, workers centers, community-based organizations and nonprofit groups. Students gain a comprehensive knowledge of the organizing, advocacy, analytical, and collaborative skills needed to succeed in this field.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply leadership skills to the work of labor and community organizations.
- Analyze historical and current trends impacting the lives of working-class people and diverse communities.
- Design logical and effective strategic organizing plans to achieve positive policy change for workers in their communities.
- Communicate effectively with people from diverse backgrounds.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Labor and Community Organizing

Course	Units
Choose 5 courses from the following	
LBCS 70A Who Built America? 1492-1877	3.0
or LBCS 70B Who Built America? From Reconstruction to the Present	3.0
LBCS 81 Organizing for Economic and Social Justice	3.0
LBCS 88 California Labor History	3.0
LBCS 96C Labor Relations in the Modern American Workplace	3.0
LBCS 114 Shaping Public Policy for Labor and Community Organizations	3.0
LBCS 115 Workforce Development & Land Use For Labor & Community Groups	3.0
Choose three units from the following	
AFAM 42 The Origins and History of Race Theory and Modern Racism	3.0
ASAM 1 Introduction to Asian American Studies	3.0
CHIN 1A Elementary Chinese	3.0
CHIN 10A Beginning Conversational Cantonese	3.0
IDST 37 Introduction to Ethnic Studies	3.0
IDST 300 Social Justice Work Experience	1.0 – 6.0
LALS 15 Latin American Workers in the Americas	3.0
LBCS 15 Latin American Workers in the Americas	3.0
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies	3.0
PHST 40 Contemporary Issues in the Filipino Diaspora	3.0
SPAN 1A Elementary Spanish	3.0
Total:	**18.0**

Announcement of Courses

Credit, Degree Applicable Courses:

LBCS 15. Latin American Workers in the Americas (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course bridges Labor Studies and Latin American/ Latino/a/x Studies by comparing the histories of realities of Latin American workers in the US and Latin America. Traces the parallel histories of Latin American and Latino workers and the ways in which politics, economics and social movements shape their experiences. UC/CSU
LBCS 15=LALS 15

LBCS 70A. Who Built America? 1492-1877 (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A multicultural, working people's history of the early United States. Native Americans, Africans and Europeans. Latinos and Asians. Farmers, shoemakers, and slaves. Revolution and expansion. Abolishing slavery, establishing workers' and women's

rights. Cooperative communities and unions. The Civil War and Emancipation. American ideals and American realities. UC/CSU

LBCS 70B. Who Built America? From Reconstruction to the Present (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A labor and working class, post-Civil War history of the United States. Native, African, Latinx and European Americans create a country. Cowboy unions and rancher rebels. Republic vs. Empire, Progressives and labor reform. Workers in World War I. During '30s hard times, workers make a New Deal. Labor Defeats Fascism. Cold Warriors attack, Freedom Marchers fight back. Worker rebels of the '80s and '90s. Immigrant workers and unions today. The needy battle the greedy. Liberty and Justice for All! UC/CSU

LBCS 81. Organizing for Economic and Social Justice (3)
Lec-52.5 P/NP available
The class will examine the strategies and tactics of organizing for economic, racial and social justice in various settings. Workplace and community organizing. Unions and workers' centers. Labor-community coalition building. The effectiveness of different approaches to building labor and community power in the current historical context. CSU

LBCS 88. California Labor History (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
History of California's working people and their quest for social justice, encompassing the state's diverse regions, races and cultures. Examines early Native Peoples, the Spanish conquest, and Chinese workers and the railroads. Studies agricultural, industrial, service and public sector workers, the tech sector, and the impact of economic inequality on society. Explores strategies used by workers, unions, worker centers, and community organizations advocating for workers power. UC/CSU
Offered Fall semesters

LBCS 94D. Labor Relations in America (1)
Lec-17.5 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A study of United States labor relations and employment rights. Includes labor history, economics and law, as well as contemporary issues in various industries. Labor relations and employment rights as they have shaped American society. CSU
Offered on occasion

LBCS 96C. Labor Relations in the Modern American Workplace (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A study of labor relations in general and through the lens of specific industries. Course explores workplace power: its history, present status, and current issues. Topics include forms of ownership, the structure of the workplace, the changing workforce, management practices, unionization, workers' rights, and current developments. A thorough analysis of labor relations and employment rights as they affect the economy, society and culture. CSU

LBCS 98A. Beginning Labor Heritage Chorus (3)
Lec-52.5, field trips P/NP available
The beginning study of choral techniques and performances of the songs that reflect workers of diverse cultures such as Native American chants, folk and labor ballads, field hollers, African-American cowboy songs, Chicano farm and border songs, Labor Motown, Asian-American work songs and songs of working women's experiences. UC/CSU

LBCS 98B. Intermediate Labor Heritage Chorus (3)
Lec-52.5, field trips P/NP available
Prereq: LBCS 98A or MUS 48A or demonstration of exit skills
The intermediate study of choral techniques and performances of the songs that reflect workers of diverse cultures. These include Native American chants, folk and labor ballads, field hollers, African-American cowboy songs, Chicano farm and border songs, Labor Motown, Asian-American work songs and songs of working women's experiences. Students will develop a more complex choral singing capacity and ability to sing in solos and small groups within chorus performances. UC/CSU

LBCS 98C. Advanced Labor Heritage Chorus (3)
Lec-52.5, field trips P/NP available
Prereq: LBCS 98B or MUS 48B or demonstration of exit skills
Advanced Labor Chorus is designed to further develop choral music and knowledge of labor songs from various periods in American history. Students will develop advanced choral techniques and repertoire with an increased focus on the development of a self-directed creative process within the labor song tradition. UC/CSU

LBCS 103. Peer Counseling-the Basics (1)
Lec-18 P/NP available
Training for volunteer peer counselors in the areas of substance abuse, strike and emergency assistance, unemployment, and related workplace problems. Covers information and referral issues as well as communication skills necessary to peer counseling. CSU

LBCS 114. Shaping Public Policy for Labor and Community Organizations (3)
Lec-52.5, field trips P/NP available
or ESL 188 or readiness for college-level English
Public policy shapes our workplaces, neighborhoods, the criminal justice system, and the environment. This course examines the role of policy making in working-class communities and communities of color. Particular attention will be given to local policy formation and the ways that labor and community organizations can influence the process for the benefit of all. UC/CSU

LBCS 115. Workforce Development & Land Use For Labor & Community Groups (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course examines the ways that workforce and housing development policies shape the lives of working-class communities. Particular attention will be given to the ways that city and county governments contend with a shifting global economy, changing federal priorities and regional job training and affordable housing needs. UC/CSU

Noncredit Courses:

LACR 9802. Workers' Rights (18 hrs)
This course covers students' rights on the job under federal, state and local law and in the union and nonunion workplace. It examines wage

and hour, job security, anti-discrimination, health and safety and collective bargaining protections. Students will learn how to organize effectively for fair conditions at work.

LACR 9805. San Francisco Labor Today - Its Issues (5 hrs)
An overview of the various organizations within the San Francisco labor community, their work and their issues. Unions, workers' centers and community-based advocacy organizations. Organizing for a better work life, building labor-community coalitions and telling working people's stories. People of color, immigrant, women's and LGBT workers' rights. The "Si, Se Puede" spirit in Bay Area labor today.
Offered on occasion

LACR 9806. Workers' Advocacy Training (3 hrs)
Introduction to the role of the workers' advocate. Union, workers' center and government agency advocacy. Organizing for social, racial and economic justice. Employment rights laws. Shop stewards and union contract enforcement. Labor-community solidarity.
Offered on occasion

LACR 9811. Organizing for Labor and Community Empowerment (18 hrs)
Labor and Community Empowerment teaches organizing theory and practice. It conducts an in-depth study of different periods of organizing history and of workers organizing potential today. It trains students to participate in and lead effective labor and community organizing campaigns. Planning, conducting and evaluating organizing campaigns.

LACR 9812. Organizing for Transformation (18 hrs)
Brings working peoples' voices to the forefront of society and social change movements. Explores communications campaigns, oral history projects, public speaking, media relations and labor and community arts programs. Special emphasis is put on students telling their own stories and those of their communities, workers centers and unions. Taking organizing deeper and further - into the heart and soul of workers lives.

LACR 9815. Labor and Community Activist Training (18 hrs)
Prepares students to advocate for improvements in their wages, working and living conditions in a variety of settings. Includes identifying issues, planning and campaign evaluation. Preparation for volunteer and paid work in union, community, and electoral activism.

Latin American and Latina/o/e/x Studies

Office: Science 186
Phone Number: (415) 239-3126
Web Site: *www.ccsf.edu/lals*

Announcement of Curricula

Social Justice Studies: General - Latin American and Latino/a Studies Major (AA-T)

The Associate of Arts in Social Justice: Latin American and Latino/a Studies for transfer is designed to prepare students who wish to transfer to pursue studies in social justice with an emphasis in Latin American and/or Latino studies.

The Social Justice Transfer Model Curriculum (TMC) is an "area of emphasis" (AOE) and has specifically been designed to prepare students for transfer into a variety of CSU majors such as

- Latin American Studies
- Latino/a Studies
- Chicano/a studies
- Mexican American Studies
- Central American Studies
- Border Studies
- African American Studies
- Africana Studies
- American Indian Studies
- American Studies
- Asian American Studies
- Ethnic Studies
- Islamic Studies
- Gender Studies
- Labor and Employment Studies
- Labor Studies
- and many other possible CSU majors.

It is advised that potential majors meet with an affiliated counselor or department chair to discuss education goals, course options and transfer issues.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply intersectionality to analyze the different power relations that have shaped the lives of Latinas/os in the United States and Latin America
- Apply appropriate methods of inquiry for Latin American and Latino/a Studies
- Analyze the national and/or transnational experiences of Latinos in the United States and Latin America

Students who wish to earn the Associate in Arts in Social Justice Studies: Latin American and Latino/a Studies for transfer (AA-T) degree must complete 60 CSU-transferable units with at least a 2.0 grade point average. This must include units required for full completion of the IGETC or CSU GE Curriculum and the units for the major as specified below. Each course in the major must be completed with a "C" (or "P") or better. Courses that meet the major requirements may also be used to meet IGETC or CSU GE requirements.

Assuming students start this AA with a transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and numbers of units completed per semester.

Courses Required for the AA-T in Social Justice Studies: General - Latin American and Latino/a Studies

Course	Units
Core required courses:	
LALS 1 The Latinx Experience in the United States	3.0
IDST 37 Introduction to Ethnic Studies	3.0
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified	3.0
LALS 14 Diego Rivera: Art and Social Change in Latin America	3.0
Select two courses from at least two areas for a minimum of 6 units:	
Area 1: History and Government	
HIST 18A The Colonial History of Latin America	3.0

HIST 18B History of Latin America Since Independence 3.0
HIST 20 History of Mexico 3.0
HIST 21 History of the Mexican American/Chicano 3.0
LALS 11 Drug Wars in the Americas 3.0
LALS 13 Latin American Social Movements 3.0
POLS 18 Government & Politics of Latin America 3.0

Area 2: Arts and Humanities
ART 105 Ancient Art and Architecture of Latin America 3.0
ART 106 Latin American Art History 3.0
HIST 18A The Colonial History of Latin America 3.0
HIST 18B History of Latin America Since Independence 3.0
HIST 20 History of Mexico 3.0
HIST 21 History of the Mexican American/Chicano 3.0

Area 3: Social Science
HIST 18A The Colonial History of Latin America 3.0
HIST 18B History of Latin America Since Independence 3.0
HIST 20 History of Mexico 3.0
HIST 21 History of the Mexican American/Chicano 3.0
LALS 9 The Latinx LGBTQ+ Experience 3.0
LALS 10 Latinas in the U.S./VOCES 3.0
LALS 15 Latin American Workers in the Americas 3.0
POLS 18 Government & Politics of Latin America 3.0
ANTH 11 Latin American Cultures and Societies 3.0

Area 4: Quantitative Reasoning & Research Methods
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies 5.0

Total: . . . . . 18.0 – 20.0

Latin American & Latino/a Studies Major (AA)

The Latin American and Latino/a Studies major is an inter-disciplinary program that studies the history, economy, culture, and politics of Latin America and Latinos in the United States.

Using an interdisciplinary approach, Latin American and Latino/a Studies graduates are active in the examination of the multiple and diverse realities of peoples of Latin America and of Latinos in the United States.

The degree in Latin American and Latino/a studies provides a basis for students pursuing further education toward careers in: non-profit program management, public sector, private sector, international development, labor and community organizing, policy analysis, education, journalism, among others.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the national and transnational experiences of Latinos/as in the Americas
- Examine the political, social, cultural and economic realities of Latin America and its people.
- Evaluate the intersectionality of distinct forms of oppression within Latina/o experience in the Americas
- Apply theories and methodologies in Latin American and Latino Studies

The Latin American and Latino/a Studies degree offers courses in different areas of graduation at CCSF: Humanities, Ethnic Studies, and Social Sciences. Oriented toward serving our diverse student body, our courses will allow students to fulfill transfer requirements to CSU, UC and other private universities. In order to complete the major you need to take a total of 21 units: Twelve (12) core units and nine (9) elective units. In the core units of the LALS major, students gain a foundation on the history, culture, and politics of Latin America and Latinos in the Americas. In the electives, students can choose a focus by selecting from our program's specialized courses; allowing them to craft a major that reflects the student's individual interests. Upon completion of the major, students will be able to integrate writing, research and presentation skills necessary for the successful attainment of a university degree and for many professional careers.

Assuming students start this AA with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Latin American & Latino/a Studies

Course . . . . . Units

Required
LALS 1 The Latinx Experience in the United States 3.0
LALS 10 Latinas in the U.S./VOCES 3.0
ANTH 11 Latin American Cultures and Societies 3.0

Choose 1 course from the following
HIST 18A The Colonial History of Latin America 3.0
HIST 18B History of Latin America Since Independence 3.0

Choose 9 units from the following
LALS 14 Diego Rivera: Art and Social Change in Latin America 3.0
One of the History of Latin America courses not completed above. 3.0
LALS 70 Individual Study in Latin American and Latino/a Studies . . . . . 1.0 – 3.0
MUS 25 Music of Latin America and the Caribbean 3.0
DANC 155A Beginning Salsa and Other Latin Dances 1.0
DANC 155B Intermediate Salsa and Other Latin Dances 1.0
LALS 9 The Latinx LGBTQ+ Experience 3.0
LALS 11 Drug Wars in the Americas 3.0
LALS 13 Latin American Social Movements 3.0
LALS 15 Latin American Workers in the Americas 3.0
HIST 20 History of Mexico 3.0
HIST 21 History of the Mexican American/Chicano 3.0
POLS 18 Government & Politics of Latin America 3.0
ART 105 Ancient Art and Architecture of Latin America 3.0
ART 106 Latin American Art History 3.0
Maximum 3 units of Spanish Language Courses
Any course can be selected
(Maximum 3 units)

Total: 21.0

Latin American & Latino/a Studies Certificate

The Certificate of Achievement in LALS is a program that introduces the Latino/a experience in the United States. The certificate is comprised of a 3-unit core course combined with elective units, providing

students with theoretical and methodological tools to understand and analyze the complexity of Latino/a lives in the United State. It is designed for students who wish to pursue a specialization in Latino/a studies and for professionals in the public, private and nonprofit sector and/or who work with or wish to learn about Latino/a communities in the United States to further their career goals.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and interpret the Latino/a national and transnational experience in the state of California and the United States.
- Compare and contrast Latin American cultures and societies.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Latin American & Latino/a Studies

Course	Units
Required	
LALS 1 The Latinx Experience in the United States	3.0
Choose 9 units from the following	
LALS 9 The Latinx LGBTQ+ Experience	3.0
LALS 10 Latinas in the U.S./VOCES	3.0
LALS 11 Drug Wars in the Americas	3.0
LALS 13 Latin American Social Movements	3.0
LALS 14 Diego Rivera: Art and Social Change in Latin America	3.0
LALS 15 Latin American Workers in the Americas	3.0
ART 106 Latin American Art History	3.0
ANTH 11 Latin American Cultures and Societies	3.0
HIST 21 History of the Mexican American/ Chicano	3.0
MUS 25 Music of Latin America and the Caribbean	3.0
HIST 18B History of Latin America Since Independence	3.0
Total:	**12.0**

Announcement of Courses

Credit, Degree Applicable Courses:

LALS 1. The Latinx Experience in the United States (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the Latinx experience emphasizing their relationship to the ethnic and racial relations, culture, history, and politics of the U.S. This course will emphasize interdisciplinary Ethnic Studies methodologies and critical race theory to analyze the impact of Latinxs on American systems and institutions. UC/CSU
Offered Fall and Spring semesters

LALS 2. Critical Thinking in Latinx Studies (3)
Lec-52.5 P/NP available
Prereq: ENGL 1A
Recommended Prep: LALS 1
Applies critical thinking skills to issues of race and ethnicity in the U.S. through articulation of key concepts in Ethnic/Latinx Studies.Topics covered include rhetorics of racism and popular culture by and/or about Latinxs. Critical analysis of the intersection of race and racism against Latinxs with other dimensions of difference such as class, gender, and national origins. Description and active engagement with anti-racist and anti-colonial practices related to rhetoric and pop culture. UC/CSU
Offered Spring semesters

LALS 5. Introduction to Statistical Methods in Latin American and Latino/a Studies (5)
Lec-87.5 P/NP available
Prereq: Intermediate algebra or higher
Recommended Prep: Readiness for college-level English or ESL 188
Emphasis is on the application of statistical methods to measure, analyze, interpret and report findings related to issues in Latin American and U.S. Latino Studies and other disciplines. Analyses include descriptive statistics: central tendency, dispersion, inferential statistics: probability theory and distributions, sampling distributions, hypothesis testing, simple linear regression, and computer technology. UC/CSU
C-ID MATH 110
Offered on occasion

LALS 9. The Latinx LGBTQ+ Experience (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of LGBTQ+ culture and societies in Latin America and in Latinx communities in the U.S. Examination of Latinx LGBTQ+ historical, cultural, political, socioeconomic, immigrant, literary, and artistic elements. UC/CSU
LALS 9=LGBT 9
Offered on occasion

LALS 10. Latinas in the U.S./VOCES (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course will examine the lives and experience of Latinas living in the U.S. using Ethnic Studies methodologies. It will explore how their experiences affect self-esteem. Major social and cultural issues and themes will be discussed and analyzed using a multidisciplinary approach. UC/CSU
Offered Spring and Summer semesters

LALS 11. Drug Wars in the Americas (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Analyzes the impact of drug production and trafficking on Latin America, and the United States; evaluates past and current US drug policy and initiatives and law enforcement strategies; studies the link between transnational organized crime and the connection between drug trafficking, insurgency and terrorism in Latin America. UC/CSU
Offered Spring and Summer semesters

LALS 13. Latin American Social Movements (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course focuses on Latin American social movements. Social movements relationship to rebellions and revolutions in Latin America and

the emergence of transnational social movements will be analyzed. UC/CSU
Offered Spring and Summer semesters

LALS 14. Diego Rivera: Art and Social Change in Latin America (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Mexican muralist Diego Rivera's work exemplifies the use of art to create an awareness of history and to promote social change in Latin America. This interdisciplinary class will explore the work of Diego Rivera and the Latin American cultural movements that developed to address relevant social and political issues. UC/CSU
Offered Spring and Summer semesters

LALS 15. Latin American Workers in the Americas (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course bridges Labor Studies and Latin American/ Latino/a/x Studies by comparing the histories of realities of Latin American workers in the US and Latin America. Traces the parallel histories of Latin American and Latino workers and the ways in which politics, economics and social movements shape their experiences. UC/CSU
LALS 15=LBCS 15
Offered Spring and Summer semesters

LALS 70. Individual Study in Latin American and Latino/a Studies (1-3)
Lab-52.5 to 157.5 P/NP available
Recommended Prep: Any LALS course, including any cross-listed Social or Behavioral Science course
Supervised individual or group study on topics and issues in Latin American & Latino/a Studies using an interdisciplinary approach. CSU
UC upon review
Offered Spring and Summer semesters

ANTH 11. Latin American Cultures and Societies (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Comprehensive and critical analysis of the cultures and traditions of the peoples in Latin America. Critical in-depth study of contemporary society and political systems, inter-ethnic relations, traditional medicinal healing, religions, and sorcery. Analysis of the history and development of Latin American cultures and the impact of state forms of social organization on its traditional societies. UC/CSU

ART 105. Ancient Art and Architecture of Latin America (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the artistic heritage of Ancient Mexico, Central, and South America. Art 105 explores the stylistic traditions and themes which gave unity to the art of this part of the world as well as the diverse cultural characteristics which led to the development of regional styles. UC/CSU
Offered Fall and Spring semesters

ART 106. Latin American Art History (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The artistic heritage of Latin America from the sixteenth century CE to the present. All art will be discussed from both a critical and historical perspective with regard to formal visual elements of style and the societies, values, and ideas that gave birth to Latin American Art. UC/CSU
Offered Fall semesters

HIST 18A. The Colonial History of Latin America (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
A survey of the colonial history of Latin America. Students examine historical, cultural, political, socio-economic, and artistic elements from the conquest to independence. UC/CSU
HIST 18A not prerequisite to 18B

HIST 18B. History of Latin America Since Independence (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Survey of Latin American history from independence in the 19th century to the present. Addresses regional differences and similarities in culture, race relations, nation building, and economic development. UC/CSU
HIST 18A and HIST 18B can be taken in either order.

HIST 20. History of Mexico (3)
Lec-52.5 P/NP available
A survey of the history of Mexico from the indigenous, colonial and modern eras. UC/CSU
Elective offered at the department's discretion

HIST 21. History of the Mexican American/Chicano (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
A survey of the history of Mexican Americans/Chicanos in the United States. Students examine historical, cultural, political, socio-economic and artistic elements. UC/CSU
Offered on occasion

LBCS 15. Latin American Workers in the Americas (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course bridges Labor Studies and Latin American/ Latino/a/x Studies by comparing the histories of realities of Latin American workers in the US and Latin America. Traces the parallel histories of Latin American and Latino workers and the ways in which politics, economics and social movements shape their experiences. UC/CSU
LBCS 15=LALS 15

LGBT 9. The Latinx LGBTQ+ Experience (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of LGBTQ+ culture and societies in Latin America and in Latinx communities in the U.S. Examination of Latinx LGBTQ+

historical, cultural, political, socioeconomic, immigrant, literary, and artistic elements. UC/CSU
LGBT 9=LALS 9
Offered on occasion

POLS 18. Government & Politics of Latin America (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The constitutional systems, political processes, and social problems of Latin American nations UC/CSU
Offered on occasion

Spanish Language Courses: See Spanish in this section of the catalog.

Learning Assistance

Office: Rosenberg 207
Phone Number: (415) 452-5502
Web Site: *www.ccsf.edu/lac*

Announcement of Courses

Credit, Degree Applicable Courses:

LERN 10. Introduction to Tutoring (1)
Lec-17.5 P/NP only
Prereq: Acceptance into a CCSF peer-tutoring program
Introduction to theories and methods of effective tutoring. Students will learn best practices, techniques, and strategies for effective tutoring. Areas covered will include, but not be limited to: the tutor role and responsibility, the tutor-tutee relationship, the tutoring cycle, strategies and techniques to implement when tutoring students of various backgrounds, learning preferences, academic abilities and specific strategies for tutoring in identified subject-specific areas. CSU

LERN 12. Tutoring/Mentoring Work Experience (1-3)
Work-60-225 P/NP only
Recommended Prep: Completion of or concurrent enrollment in: LERN 10
Repeat: Repeated up to 9.00 Units
Work experience tutoring or mentoring in a specific subject matter, course or program under the supervision of the Learning Assistance Center Coordinator or an Instructor for a specific course or program. CSU
Replaces LERN 12A, 12B, and 12C

LERN 50. College Success (3)
Lec-52.5 P/NP available
Recommended Prep: Completion of or concurrent enrollment in: ESL 188 or ENGL 88 or higher
Integrates study strategies, critical analysis and communication skills in preparation for lifelong success in academic, professional and personal development. Includes time management, critical thinking, personal and educational values, written and spoken communication, informational literacy, research skills, equity and social justice, navigation of educational systems, online learning, health, and financial literacy. UC/CSU
LERN 50=IDST 50

LERN 51. College Success Basics (1)
Lec-17.5 P/NP only
This brief course introduces students to basic college success strategies: goal setting and time management, memory and concentration, lecture notetaking, accessing campus resources, textbook studying and test taking. CSU
Offered on occasion

LERN 52A. Study Strategies: Discipline Specific (1)
Lec-17.5 P/NP only
This brief intensive course increases student success by introducing content-specific study strategies particular to a targeted academic discipline, course or section within a discipline. Study strategies are unique to the discipline to assist students with assigned content. CSU
Offered on occasion

LERN 53A. Test Prep for CBEST Basic Skills Test-English (.5)
Lec-9 P/NP only
Recommended Prep: Readiness for college-level English or ESL 188
This brief review course is designed to prepare students for the CBEST - California Basic Education Skills Test: English. This is the standardized exam that future K -12 teachers must pass prior to being hired as a teacher for particular subjects. CSU

LERN 53B. Test Prep: Standardized Exams: CBEST-Math (.5)
Lec-9 P/NP only
This short-term course is designed to prepare students for the mathematics section of the CBEST, standardized, timed test. This course covers formatting, scoring standards, test-taking and study strategies and specific content. This is the standardized exam that future K-12 teachers must pass prior to being hired as a teacher. CSU

LERN 53C. Test Prep: Standardized Exams: CSET (.5)
Lec-9 P/NP only
Recommended Prep: Readiness for college-level English or ESL 188
This short-term course is designed to prepare students for the English section of the CSET Multiple Subjects standardized test. This course covers formatting, scoring standards, test-taking, study strategies, and specific content related to the Reading, Language, and Literature sections of Subtest 1 of the CSET Multiple Subjects Exam. CSU

LERN 53D. Test Prep for CSET Multiple Subjects Exam: Math (.5)
Lec-9 P/NP only
Recommended Prep: Elementary algebra or higher
This short-term course is designed to prepare students for the mathematics section of the CSET Multiple Subjects standardized test. This course covers formatting, scoring standards, test-taking and study strategies, and specific content related to each subset of the particular test. CSU

LERN 54. Multiple Subjects CSET I Intensive Preparation (3)
Lec-52.5 P/NP available
Recommended Prep: (Elementary algebra or higher) and (readiness for college-level English or ESL 188)
This intensive course is designed to prepare future K-12 teachers to take any one of the CSET, or for multiple CSET tests. This course includes timed practice tests, peer review, lecture and seminar discussions. These activities lead to improved test-taking and addresses study skills, time management, stress and anxiety management, goal setting, accountability, gaining content specific proficiency, accessing resources, and networking. CSU

LERN 55. Successful Online Learning (1)
Lec-17.5
Master successful online learning in 6 weeks. Gain proficiency using Canvas as a holistic learning environment: access instructions and

course materials; participate in community; complete assignments, and receive help from the instructor. Implement behaviors conducive to successful online learning: time management, goal setting, and self-motivation. Apply study strategies to reading e-books, and create study tools for an e-portfolio. For students new to, or seeking to master online learning. CSU

Noncredit Courses:

LERN 1000. Supervised Tutoring (1-200 hrs)
Tutoring and learning support activities offered outside of class. Students receive academic assistance in understanding course content, achieving academic course learning outcomes, basic skills, study strategies and computer skills. Students work with peer tutors who are recommended by subject-specific faculty. Peer tutors are trained, supervised, and participate in ongoing professional development by Learning Assistance or other discipline-specific faculty.

LERN 1010. Introduction to Tutoring (18 hrs)
Introduction to theories and methods of effective tutoring. Tutoring purpose, goals and techniques; questioning and positive reinforcement; active listening and study skills; culture and multicultural awareness; learning styles and strategies.

Career Development *

* See Career Development for former LERN career development courses.

Lesbian, Gay, Bisexual, and Transgender Studies

Office: Cloud 126
Phone Number: (415) 239-3876
Web Site: *www.ccsf.edu/lgbt*
*Formerly: Gay, Lesbian and Bisexual Studies

Announcement of Curricula

Social Justice Studies: General - Feminist, Queer, and Trans Studies Major (AA-T)

Associate in Arts in Social Justice Studies: Feminist, Queer, and Trans Studies for Transfer is a joint program between the Women's and Gender Studies and the LGBT Studies Departments. This AA-T offers students breadth of knowledge through a set of introductory courses addressing gender, sexuality, race, ethnicity, class, and ability, and depth of knowledge through courses that focus on intersecting identities within feminist, queer, and trans theories. We aim to understand and dismantle cultural and institutionalized oppressions like sexism, heterosexism, homophobia, cissexism, transphobia, racism, classism, ableism, and ageism. The AA-T prepares students who wish to transfer and pursue a baccalaureate degree in a field related to Social Justice, particularly at the California State University campuses. Related fields include Women and Gender Studies, LGBT Studies, Queer Studies, Feminist Studies, Sexuality Studies, Ethnic Studies, Critical Race Studies, or any of a number of other CSU Majors included in this "area of emphasis."

It is advised that potential majors meet with an affiliated Counselor or Department Chair to discuss educational goals, course options, and transfer issues.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the social, political, and historical contexts of Feminist, Queer, and Transgender Studies.
- Apply an intersectional framework to feminist, queer, trans, ethnic, racial, and/or socio-economic theories.
- Examine gender identities, gender expressions, and sexual orientation across cultures historically and/or in a contemporary context.
- Identify the role of art and creativity in various global cultural contexts in relation to gender and sexuality.

Students who wish to earn the Associate in Arts in Social Justice Studies: Feminist, Queer, and Trans Studies for transfer (AA-T) degree must complete 60 CSU-transferable units with at least a 2.0 grade point average. This must include units required for full completion of the IGETC or CSU GE Curriculum and the units for the major as specified below. Each course in the major must be completed with a "C" (or "P") or better. Courses that meet the major requirements may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Social Justice Studies: General Feminist, Queer, and Trans Studies

Course	Units
Required	
IDST 37 Introduction to Ethnic Studies	3.0
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified	3.0
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies	3.0
Choose 3 courses from at least 2 areas.*	
Area 1: History or Government	
HIST 12A United States Women's History: Pre-colonial Through 1880s.	3.0
HIST 12B United States Women's History: 1890-Present	3.0
HIST 45 LGBT American History	3.0
Area 2: Arts and Humanities	
LGBT 11 History of LGBTQ+ Film: Silent Era to 1969	3.0
LGBT 15 From Greece to Stonewall: Global LGBTQ+ Literature, Art and Culture	3.0
LGBT 18 Transgender Lives, Culture and Art	3.0
LGBT 20 LGBT U.S. Art and Culture	3.0
LGBT 55 Contemporary Global Art and Culture	3.0
LGBT 75 LGBTQ+ Film: in the 1970s and 1980s.	3.0
WGST 10 Women and Film	3.0
AFAM 60 African American Women in the U.S.	3.0
ART 108 Women Through Art History	3.0
ASAM 35 Asian American Women	3.0
ENGL 57 Survey of Women's Literature	3.0
ENGL 58 Contemporary Women's Writing	3.0
HUM 25 Women in the Arts	3.0
IDST 31 Women and Gender in the Middle East	3.0
IDST 36 Poetry for the People	3.0
MUS 27Q Music and Queer Identity	3.0
Area 3: Social Science	
LGBT 10 LGBT Culture & Society	3.0

LALS 9 The Latinx LGBTQ+ Experience 3.0
LGBT 21 Intimacy and Relationships between Women and Nonbinary People 3.0
LGBT 24 Male Intimacy and Relationships 3.0
LGBT 50 LGBT Communities of Color in the U.S. 3.0
WGST 35 Introduction to Masculinity Studies 3.0
WGST 54 The Politics of Sexual Violence 3.0
AFAM 60 African American Women in the U.S. 3.0
ANTH 20 Queer Anthropology 3.0
ANTH 25 Culture, Gender and Sexuality 3.0
ASAM 35 Asian American Women 3.0
ECON 20 LGBT Economics 3.0
HIST 12A United States Women's History: Pre-colonial Through 1880s. 3.0
HIST 12B United States Women's History: 1890-Present . . 3.0
HIST 45 LGBT American History 3.0
HLTH 221 Health and Social Justice 3.0
IDST 17 Human Sexuality 3.0
IDST 31 Women and Gender in the Middle East 3.0
LALS 10 Latinas in the U.S./VOCES 3.0
POLS 19 Gender, Politics, and Policy 3.0
PSYC 25 Psychology of Gender 3.0
SOC 25 Sex and Gender in the U.S. 3.0

* Each course taken may be used to satisfy only one area or requirement and cannot be counted twice.

Recommended

Students are encouraged to fulfill their general education requirements for written composition and oral communication with ENGL 1A and CMST 1A with a Women's and Gender Studies or LGBT Studies focus.

Total: 18.0

Lesbian, Gay, Bisexual and Transgender Studies Major (AA)

The LGBT Studies Major offers a multidisciplinary and multicultural approach to the study of Lesbian, Gay, Bisexual, Transgender, Queer and Intersex identities, culture, art, literature politics, history and society both globally and domestically. Through the Arts, Humanities, Social Sciences and Behavioral Sciences, the LGBT Studies Major incorporates queer theory, theories of race and ethnicity, feminist theory, and the study of comparative social and political movements to examine the ways that we currently understand and have historically understood various constructions of sexuality, gender identity and behavior depending upon historic time and global location. To support this multidisciplinary approach, the LGBT Studies Department offers course that cover literature, film, art, ethnic studies, history, anthropology, psychology, politics, religion and health. While the LGBT Studies major at City College of San Francisco offers a full and array of General Education and Diversity requirements, it will also prepare students for transfer to numerous LGBT/Queer Studies baccalaureate programs in the United States and Canada.

Learning Outcomes

Upon completion of this program, students will be able to:

- Research and analyze key issues in Lesbian, Gay, Bisexual, Transgender, Queer and Intersex histories and the intersectionality of LGBTQI+ people.
- Analyze key issues concerning LGBTQI+ people in various regions of the world with a focus on cultural identity as informed by issues of politics, religion and colonial histories.

Assuming students start this AA with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Lesbian, Gay, Bisexual and Transgender Studies

Course . . . . . Units

Required

LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3.0
LGBT 15 From Greece to Stonewall: Global LGBTQ+ Literature, Art and Culture 3.0

Choose 3 units from the following

LGBT 20 LGBT U.S. Art and Culture 3.0
LGBT 55 Contemporary Global Art and Culture 3.0
FASH 55 Icons of Contemporary Fashion 3.0
MUS 27Q Music and Queer Identity 3.0

Choose 3 units from the following

LGBT 11 History of LGBTQ+ Film: Silent Era to 1969 . . . . . 3.0
LGBT 12 Contemporary LGBTQ Film 3.0
LGBT 18 Transgender Lives, Culture and Art 3.0
LGBT 75 LGBTQ+ Film: in the 1970s and 1980s. 3.0

Choose 6 units from the following

LGBT 9 The Latinx LGBTQ+ Experience 3.0
LGBT 10 LGBT Culture & Society 3.0
LGBT 50 LGBT Communities of Color in the U.S. 3.0
ANTH 20 Queer Anthropology 3.0
ECON 20 LGBT Economics 3.0
HIST 45 LGBT American History 3.0
PSYC 24 Queer Psychology 3.0

Choose 3 units from the following

LGBT 21 Intimacy and Relationships between Women and Nonbinary People 3.0
LGBT 24 Male Intimacy and Relationships 3.0
CDEV 76 Supporting LGBT Families in Educational Settings. 3.0
HLTH 67 HIV and Hepatitis Navigation Skills. 3.0
IDST 17 Human Sexuality 3.0
IDST 36 Poetry for the People 3.0
IDST 80A Diversity and Social Justice: Racism 0.5
IDST 80C Diversity and Social Justice: Sexism 0.5
IDST 80D Diversity and Social Justice: Heterosexism. 0.5
IDST 80E Diversity and Social Justice: Ableism 0.5
IDST 80F Diversity and Social Justice: Class and Classism 0.5
IDST 80G Diversity and Social Justice: Transphobia 0.5
WGST 10 Women and Film 3.0
WGST 54 The Politics of Sexual Violence 3.0
WGST 55 Ending Sexual Violence: Peer Education 3.0
Any Arts and Humanities or Social and Behavioral course listed above, if not already taken. 3.0

Total: 21.0

Public Safety LGBTQ+ Awareness Certificate*

* See Administration of Justice and Fire Science.

Announcement of Courses

Credit, Degree Applicable Courses:

LGBT 5. Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
This introductory course focuses on a broad range of domestic and global contemporary LGBT topics in art, history, law, literature, and politics. Students have the opportunity to explore intersecting identities while developing research and critical thinking skills vital for further progress in the program. UC/CSU
C-ID SJS 130
Offered Fall and Spring semesters

LGBT 9. The Latinx LGBTQ+ Experience (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of LGBTQ+ culture and societies in Latin America and in Latinx communities in the U.S. Examination of Latinx LGBTQ+ historical, cultural, political, socioeconomic, immigrant, literary, and artistic elements. UC/CSU
LGBT 9=LALS 9
Offered on occasion

LGBT 10. LGBT Culture & Society (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines the development of LGBTQ+ communities and the cultural and ideological forces that have shaped them. Included are the ways queer and trans groups have presented themselves and their communities through political activism and resistance, cultural organizations, and media. Contemporary struggles for decolonization, equity, and social justice with an emphasis on intersecting identities will be highlighted. UC/CSU
Offered Fall and Spring semesters

LGBT 11. History of LGBTQ+ Film: Silent Era to 1969 (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Examines significant creations, trends, and issues in the history of LGBTQ+ film from the silent era to 1969. The course explores films from around the world and focuses on intersecting identities. Identifies theoretical approaches to the study of LGBTQ+ cinema for interpreting historic representations of queer and trans people. UC/CSU
Offered on occasion

LGBT 12. Contemporary LGBTQ Film (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Examines significant issues in the contemporary cinematic representation of LGBTQ people with a focus on the ways LGBTQ representation is expressed. Films screened cover mainstream Hollywood to small independent productions. LGBTQ film theory aids in developing a language for discussing the way cinema both challenges and reinforces societal values. The course looks at films from around the world and focuses on intersecting identities. UC/CSU
Offered on occasion

LGBT 15. From Greece to Stonewall: Global LGBTQ+ Literature, Art and Culture (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This global humanities course examines LGBTQ+ culture, artists, and writers from ancient Africa, China, Egypt, Greece, Indigenous Americas, Japan, and the Middle East to Medieval and Renaissance Europe and Mexico through pre-World War II Europe and 1950s Japan and the U.S. Review of artifacts, art, artistic communities, and writers over the span of several centuries to assess changing attitudes to LGBTQ+ communities.CCSF GE Areas E and H3; CSU GE Area C2; IGETC Area 3B. UC/CSU
Offered Fall and Spring semesters

LGBT 18. Transgender Lives, Culture and Art (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Focuses on Transgender and 'gender variant' figures throughout the world who, historically, held a sacred place within ancient cultures as evidenced in art and literature. The course will then move to explore modem and contemporary views of Trans gender and 'gender variant' people within various cultures including LGBT politics, art and culture. UC/CSU
Offered Fall and Spring semesters

LGBT 20. LGBT U.S. Art and Culture (3)
Lec-52.5 P/NP available
Lesbian, Gay, Bisexual, Transgender, and Queer U.S. artists, including expatriates, of the late 19th and 20th centuries and their influence on modem art. Analyzes the contribution of LGBTQ+ artists, poets, dancers, musicians, writers, and their associates and communities. Focuses on indigenous Two Spirit writers and artists, Harlem Renaissance art and culture, and contemporary political art that considers social justice issues such as AIDS, immigration, and transgender life. UC/CSU
Offered Fall and Spring semesters

LGBT 21. Intimacy and Relationships between Women and Nonbinary People (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Utilizing a feminist lens, this course studies people who identify as women and nonbinary in intimate relationships from a variety of perspectives. Integrating the personal experiences of class members, the course examines biological, psychological, social, and cultural influences upon women's and nonbinary people's ability to develop and sustain intimate and healthy relationships. CSU
Offered Fall and Spring semesters

LGBT 24. Male Intimacy and Relationships (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Course studies male to male intimate relationships from a variety of perspectives. Integrating the personal experiences of class members, the course also examines biological, psychological, social, and cultural influences upon men?s ability to develop and sustain intimate relationships. Students will gain a better understanding of how to seek and participate in more satisfying relationships as well as understand and cope with the many forces that impact male same-sex relationships. CSU
Offered Fall and Spring semesters

LGBT 50. LGBT Communities of Color in the U.S. (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the histories, power dynamics, intersectionalities, cultures, communities and resistance of LGBTQ+ Black, Latinx, Chicanx, Indigenous and API people in the U.S. UC/CSU
Formerly Lesbian/Gay/Bisexual/Transgender/Communities of Color in the U.S.
Offered Spring semesters

LGBT 55. Contemporary Global Art and Culture (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Focus on contemporary LGBTQ+ creativity, identities, differences, and commonalities through LGBTQ+ art and culture in global contexts. Through considerations of imperialism and colonization as well as religion and other intersecting identities, this course examines contemporary LGBTQ+ writers, artists, filmmakers, and musicians within a global context. UC/CSU
Offered on occasion

LGBT 75. LGBTQ+ Film: in the 1970s and 1980s (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Exploration of LGBTQ+ film in two critical decades: the 1970s following the Stonewall Uprising and the 1980s with the rise of the AIDS pandemic. LGBTQ+ representations in film will be explored through historical, artistic, critical, and political perspectives. LGBTQ+ inspired films such as, horror, documentaries, cult favorites, international, and experimental films will be explored to assess the social and cultural impacts on LGBTQ+ people and communities. UC/CSU
Formerly Queer Cinema in the 1970s
Offered on occasion

ADMJ 55. Administration of Justice and the LGBTQ+ Community (3)
Lec-52.5, field trips P/NP available
An examination of the relationship and interactions between the American justice system and the LGBTQ+ community. This course meets the training requirements of section 13519.41PC for law enforcement officers and 9-1-1 dispatchers. CSU
Offered Summer semesters

ANTH 20. Queer Anthropology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A sub-discipline of socio-cultural anthropology that focuses on contexts of difference in sexuality from the (presumed) norms of sexual and gender variation within social systems, practices, and ideologies. Queer anthropology utilizes intersectional studies of sex, race, ethnicity, gender, gender expression, religion, colonialism, and globalization. UC/CSU

BCST 103. Mass Media and Society (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
A general interest course covering the history, organization and social role of major mass communication media, such as radio, television, motion pictures, print, recording industries, Internet, and the World Wide Web. Basic theory of communication and communication research. Emphasis on the influence of mass media on the individual and society. UC/CSU
Offered every semester

BIO 15. Biology of HIV (3)
Lec-52.5, field trips P/NP available
This course presents the biological basis for HIV/ AIDS origins and emergence; epidemiology; virus structure and replication; interaction of HIV with the immune system and disease; HIV testing; current prevention, treatment, and cure strategies. UC/CSU

CDEV 76. Supporting LGBT Families in Educational Settings (3)
Lec-52.5
Recommended Prep: CDEV 67
Analysis of challenges faced by lesbian, gay, bisexual and transgender (LGBT) families in educational settings and exploration of the role of educators and educational programs in creating inclusive, accepting and celebratory environments. CSU
HISTORICAL CDEV 76=LGBT 76 (LGBT 76 deactivated 3/15/16)
Offered on occasion

ECON 20. LGBT Economics (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
LGBT economic roles, including varying experiences of LGBT people with consideration of intersecting identities by class, race, gender, and ethnicity. This course introduces the principles of economic analysis in the study of the roles of LGBT people in cultures. Examines markets and government policies for heteronormative biases; the role of homophobia and sexism in economic inequality and discrimination of LGBT people; public policy regarding LGBT people?s work and incomes. UC/CSU
Offered on occasion

HIST 45. LGBT American History (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college level English or ESL 188
Survey of the origins, development, and current status of the Lesbian, Gay, Bisexual, and Transgender reform and liberation movements in the United States, with particular emphasis since WWII. Includes the lives, communities, organizations, and resistance movements created by LGBT peoples from diverse racial, ethnic, and class backgrounds. UC/CSU

HLTH 25. Women's Health (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Explores the social determinants and issues related to women's health on an individual and community level. Emphasis on evaluation of health resources, behavior change process, and role of risk factors and prevention. UC/CSU

HLTH 27. Men's Health (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Exploration of the social determinants and issues related to men's health on the individual and community levels. Emphasis on

evaluation of health resources, behavior change process, and role of risk factors and prevention. UC/CSU

HLTH 67. HIV and Hepatitis Navigation Skills (3)
Lec-52.5 P/NP available
Prepares frontline workers to provide navigation services to those at risk for and living with HIV and hepatitis diseases and common co-occurring conditions informed by a public health and social justice framework. CSU
Offered on occasion

HLTH 95. Transgender Health: Working with Clients and Communities (1)
Lec-17.5 P/NP available
A critical analysis of the public health status of transgender populations. The course will provide knowledge, skills, and resources necessary to work effectively in health and social service settings that serve transgender clients and communities. CSU

IDST 17. Human Sexuality (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A human sexuality course that integrates content and methodology from the disciplines of biology, ethics, health education, history, jurisprudence, LGBTQI+. women and gender studies, psychology, and social justice. Covers the anatomical, physiological and psychological stages of development across the life span, including the role of gender, patterns of sexual arousal and response, and the paraphilias. UC/CSU
C-ID PSY 130
Offered Spring and Fall semesters

IDST 36. Poetry for the People (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary approach toward development of literacy in multiple popular traditions of poetry, including in social justice movements, by incarcerated people, and through alternative media. Includes scrutiny of published poems from multiple cultural traditions, a focus on community, and the cultivation and public presentation of new poems. UC/CSU
Offered Fall and Spring semesters

IDST 80A. Diversity and Social Justice: Racism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of race-based oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about racism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80C. Diversity and Social Justice: Sexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness raising analysis and evaluation of sexism on individual, institutional, and cultural levels in the United States. Expanding one's knowledge about sexism, increasing personal awareness of one's own sexism and assumptions, and the application of this knowledge and awareness for individual and social change are emphasized. CSU
Offered Fall semesters

IDST 80D. Diversity and Social Justice: Heterosexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of homophobia and heterosexism (discrimination based on perceived or real sexual orientation and identity) oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about heterosexism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80E. Diversity and Social Justice: Ableism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of ableism (disability-based oppression) on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about ableism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80F. Diversity and Social Justice: Class and Classism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of class oppression and classism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about class, class oppression and classism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

IDST 80G. Diversity and Social Justice: Transphobia (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of transphobia and gender oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about transphobia and gender diversity, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 81B. Diversity and Social Justice: Anti-Semitism/Anti-Arabism (1)
Lec-18 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of anti-Semitism and anti-Arabism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about anti-Semitism and anti-Arabism, increasing awareness of one's own socialization and assumptions,

and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

LALS 9. The Latinx LGBTQ+ Experience (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of LGBTQ+ culture and societies in Latin America and in Latinx communities in the U.S. Examination of Latinx LGBTQ+ historical, cultural, political, socioeconomic, immigrant, literary, and artistic elements. UC/CSU
LALS 9=LGBT 9
Offered on occasion

PSYC 14. Psychology of Shyness (1)
Lec-18 P/NP available
A psychological examination of shyness as a form of temperamental diversity. A comparison of shyness, social anxiety, introversion and the potential psychosocial challenges of each. Strategies for addressing challenges will be presented. CSU

PSYC 15. Assertive Behavior (1)
Lec-18 P/NP available
Examination of the development of communication patterns in a psychological and sociological context. Psychological and emotional barriers to effective communication will be explored. Application of assertiveness techniques to effect behavior change based on cognitive and behavioral theories in psychology are a major focus. Assessment and implementation of appropriate techniques in a variety of situations, including communication with family, friends, and at the workplace are also discussed. CSU

PSYC 24. Queer Psychology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Examines the psychological experiences of LGBTQ people. Intersectionality, feminist psychology, and queer theoretical perspectives are used to analyze the impact of queer identity on how individuals think, feel, and behave. Critical exploration of current research and models of sexual orientation and gender identity, and impacts of stigma and discrimination. UC/CSU

PSYC 25. Psychology of Gender (3)
Lec-52.5 P/NP available
This course is an analysis of theories and research on how behavioral, cognitive, and emotional processes are impacted by gender. It includes an intersectional critique of biological, psychological, sociocultural ideas of gender, gender continuums from cis to transgender and addresses topics such as stereotypes, relationships, violence, sexuality, work and academics from various perspectives. Included is a focus on experiences of, and responses to, oppression. UC/CSU
Offered Fall semesters

SOC 25. Sex and Gender in the U.S. (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course is a comprehensive introduction to the sociological study of gender and will focus on the multiple ways in which sex and gender are socially produced and sustained. Exploration of the social practices and processes that create sex and gender distinctions and contribute to inequalities. Emphasis on the social construction of sex and gender and their intersections with other social identities such as race, sexuality, and class. UC/CSU
C-ID SOCI 140
Offered Spring semesters

WGST 10. Women and Film (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Feminist film studies. Uses an intersectional lens to analyze women's roles in cinema as filmmakers and actors from its origins to the present. UC/CSU
Formerly WOMN 10
Offered Summer and Fall semesters

WGST 35. Introduction to Masculinity Studies (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary and intersectional study of masculinities within US culture and society. Special attention will be given to how masculinity is represented and constructed along axes of race, ethnicity, sexuality, gender, class, and ability, as well as possibilities for challenging hegemonic masculinity and building new masculinities. UC/CSU
Offered Fall and Spring semesters

WGST 54. The Politics of Sexual Violence (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An examination of the political, social, and psychological causes of sexual violence, its connections to other forms of violence, and strategies for addressing the social problem of sexual violence and transforming a rape culture, including prevention education and the healing function of writing. Field project required. UC/CSU
Formerly WOMN 54. Can be taken in any order with WGST 55.
Offered Fall and Spring semesters

WGST 55. Ending Sexual Violence: Peer Education (3)
Lec-52.5 P/NP available
Education and skills training in peer education to promote healthy relationships and reduce sexual violence, specifically intimate partner violence and acquaintance rape. Peer education activities include preparation of a facilitation plan, campus-wide visibility projects, presentations to CCSF classes and volunteer work in community-based organizations. Field project required. CSU
Students can take WGST 55 and WGST 54 in any order. Course was formerly WOMN 55.
Offered Fall and Spring semesters

Liberal Arts and Sciences

Announcement of Curricula

The Liberal Arts and Sciences degree is designed for students who wish to have a broad knowledge of arts and sciences plus additional knowledge in an "Area of Emphasis." This degree can be a good option for students planning to transfer to a university as it provides the flexibility for students to satisfy both general education and lower division major requirements for specific universities while meeting associate

degree requirements at the same time. For more detailed information on transfer requirements, students should speak with a counselor and refer to ***www.ASSIST.org***.

To complete the requirements for the Associate in Arts or Associate in Science for one of these degrees, a student must:

- Complete the CCSF General Education requirement (18-24 units).
- Complete 18 units in one "Area of Emphasis" from those outlined below.

  Each course used to meet this "area of emphasis" requirement must be completed with a grade of "C" or higher (or "Credit" or "Pass" if the course was taken on a "credit/no credit" or "pass/no pass" basis). Where appropriate, courses in the "area of emphasis" may also be counted for a General Education area.
- Complete all other CCSF graduation requirements (i.e., math, GPA, residency, and unit requirements).

Assuming students start one of these degrees with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

AREAS OF EMPHASIS

Arts and Humanities Emphasis (AA) Associate in Arts in Arts and Humanities

The Liberal Arts and Sciences degree is designed for students who wish to have a broad knowledge of arts and sciences plus additional knowledge in an "Area of Emphasis." This degree can be a good option for students planning to transfer to a university as it provides the flexibility for students to satisfy both general education and lower division major requirements for specific universities while meeting associate degree requirements at the same time. For more detailed information on transfer requirements, students should speak with a counselor and refer to ***www.ASSIST.org***.

The courses in the Arts and Humanities emphasis cover the study of cultural, literary, humanistic activities and artistic expression of human beings.

Learning Outcomes

Upon completion of this program, students will be able to:

- Exhibit an understanding of the ways in which people in diverse cultures and eras have produced culturally significant works.
- Communicate effectively the meanings and intentions of creative expression.
- Use analytical techniques to assess the value of human creations in meaningful ways.
- Demonstrate an understanding of the human condition through language, reasoning, or artistic creation.

Each course used to meet this "area of emphasis" requirement must be completed with a grade of "C" or higher (or "Credit" or "Pass" if the course was taken on a "credit/no credit" or "pass/no pass" basis). Where appropriate, courses in the "area of emphasis" may also be counted for a General Education area.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Liberal Arts and Sciences Emphasis in Arts and Humanities

Course	Units
Complete 18 units from the following courses (at least one course from Arts, and one from Humanities):	
ARTS: CHOOSE AT LEAST ONE OF THE FOLLOWING COURSES:	
AFAM 55 From Funk to Hip Hop	3.0
ARCH 31A History of Architecture I	3.0
ARCH 31B History of Architecture II	3.0
ARCH 102 Architecture Design Studio II	3.0
ART 101 Western Art History I	3.0
ART 102 Western Art History II	3.0
ART 103 History of Modern Art	3.0
ART 104 Asian Art History	3.0
ART 105 Ancient Art and Architecture of Latin America	3.0
ART 106 Latin American Art History	3.0
ART 107 African-American Art History	3.0
ART 108 Women Through Art History	3.0
ART 109 History of Contemporary Art	3.0
ART 118 American Art	3.0
ART 122A Russian Art at the Legion	3.0
ART 123Q Baroque Masters of Light	3.0
ART 123U 18th c. French Art at the Legion	3.0
ART 123V Renaissance Art at the Legion	3.0
ART 123W 19th Century Painting at the Legion	3.0
ART 125A Basic Design: 2-D Foundations	3.0
ART 126 Color	3.0
ART 130A Basic Drawing	3.0
ART 140A Beginning Painting	3.0
ART 146A Beginning Chinese Brush Painting	3.0
ART 146B Intermediate Chinese Brush Painting	3.0
ART 160A Beginning Ceramics	3.0
ART 170A Beginning Sculpture	3.0
ART 180A Beginning Jewelry/Metal Arts	3.0
ASIA 11 East Asian Calligraphy: An Introduction	3.0
CINE 18 American Cinema	3.0
CINE 21 Introduction to Film Studies	3.0
CINE 23A Films of Alfred Hitchcock	3.0
CINE 23B Focus on Film Noir	3.0
CMST 38 Forensics Competition	3.0
DANC 30 Dance History Dance in Cultural Context	3.0
DANC 100A Beginning Dance Composition	3.0
DSGN 101 Design Fundamentals	3.0
DSGN 105 Design Thinking	1.5
DSGN 110 Design Drawing Techniques	1.5
FASH 23 Fashion History	3.0
FASH 55 Icons of Contemporary Fashion	3.0
INTD 138 Global History of Interior Design	3.0
LALS 14 Diego Rivera: Art and Social Change in Latin America	3.0
LGBT 20 LGBT U.S. Art and Culture	3.0
LGBT 55 Contemporary Global Art and Culture	3.0
MUS 3A Diatonic Harmony	3.0
MUS 3B Chromatic Harmony	3.0
MUS 5A Introduction to Composition	3.0
MUS 5B Music Composition	3.0
MUS 9A Beginning Piano	3.0
MUS 21 Traditional African Music	3.0
MUS 22A History of Music in Western Culture: Medieval and Renaissance Music	3.0

MUS 22B History of Music in Western Culture: Baroque and Classical Music 3.0
MUS 22C History of Music in Western Culture: Romanticism 3.0
MUS 23 History of Jazz: Musical Traditions of the African-American 3.0
MUS 24 Music of East Asia 3.0
MUS 25 Music of Latin America and the Caribbean 3.0
MUS 26 Music in American Culture 3.0
MUS 27A Music Appreciation. 3.0
MUS 27B Survey of Opera and Musical Theater 3.0
MUS 27Q Music and Queer Identity 3.0
MUS 27R The History of Rock and Popular Music 3.0
MUS 28 20th Century Music. 3.0
MUS 100 Music Fundamentals 3.0
PHOT 50A History & Aesthetics Pre-1945 . . . . . 4.0
PHOT 50B History & Aesthetics Since 1945 . . . . . 4.0
PHOT 81A B&W Film/Darkroom 1 . . . . . 4.0
PHOT 100 Design Fundamentals 3.0
TH A 30 Introduction to Theatre 3.0
TH A 31 Survey of Classical Drama 3.0
TH A 32 Survey of Modern Drama 3.0
TH A 33 Survey of the Art of Comedy. 3.0
TH A 80 Introduction to Costume Design 3.0
TH A 81 Introduction to Stage Makeup and Wig Design . . 3.0
TH A 150A Beginning Acting Fundamentals 3.0
VMD 101 Design Fundamentals 3.0
VMD 110 History of Graphic Design 3.0
VMD 112 Design Drawing Techniques. 1.5

HUMANITIES: CHOOSE AT LEAST ONE OF THE FOLLOWING COURSES:

AFAM 30 African American Consciousness. 3.0
AFAM 40 The Black Experience in California 3.0
AFAM 60 African American Women in the U.S. 3.0
AMS 5 Comics, Power, and Society 3.0
AMSL 2A Continuation of Elementary American Sign Language 3.0
ASAM 6 Stories of Asian America 3.0
ASAM 10 Asian American Popular Culture 3.0
ASAM 20 Asian American Experience Since 1820 . . . . . 3.0
ASAM 30 Asian American Issues Through Film 3.0
ASAM 35 Asian American Women 3.0
ASIA 15 Asian Societies and Cultures through Film 3.0
ASIA 30 Manga and Anime 3.0
BCST 103 Mass Media and Society 3.0
CHIN 1 Elementary Chinese 5.0
CHIN 1A Elementary Chinese 3.0
CHIN 1B Elementary Chinese 3.0
CHIN 2 Continuation of Elementary Chinese 5.0
CHIN 2A Continuation of Elementary Chinese. 3.0
CHIN 2B Continuation of Elementary Chinese 3.0
CHIN 3 Intermediate Chinese. 5.0
CHIN 3A Intermediate Chinese 3.0
CHIN 3B Intermediate Chinese 3.0
CHIN 4 Continuation of Intermediate Chinese 5.0
CHIN 4A Continuation of Intermediate Chinese 3.0
CHIN 4B Continuation of Intermediate Chinese. 3.0
CHIN 10A Beginning Conversational Cantonese. 3.0
CHIN 10B Continuation of Beginning Conversational Cantonese. 3.0
CHIN 10C Intermediate Conversational Cantonese 3.0
CHIN 12A Beginning Conversational Mandarin 3.0
CHIN 12B Continuation of Beginning Conversational Mandarin 3.0
CHIN 12C Intermediate Conversational Mandarin 3.0
CHIN 14A Beginning Conversational Mandarin for Speakers of Other Chinese Dialects. 3.0
CHIN 14B Conversational Mandarin for Other Dialect Speakers 3.0
CHIN 14C Advanced Conversational Mandarin for Speakers of Other Chinese Dialects. 3.0
CHIN 30A Mid-Intermediate Chinese. 3.0
CHIN 30B Continuation of Mid-Intermediate Chinese 3.0
CHIN 31A Pre-Advanced Mandarin Chinese for BilingualStudents 3.0
CHIN 31B Continuation of Pre-Advanced MandarinChinese for Bilinguals 3.0
CHIN 32 Chinese Language and Culture. 3.0
CHIN 33 Chinese Culture for Heritage Learners 3.0
CHIN 39 Major Achievements of Chinese Thought and Culture 3.0
CINE 19 Introduction to Documentary Film Studies . . . 3.0
CINE 20A International Film History (1880s-1930s) 3.0
CINE 20B International Film History (1930s-1960s) 3.0
CINE 21 Introduction to Film Studies 3.0
CINE 20C International Film History (1960s-Present) 3.0
CINE 22 History of Documentary Film. 3.0
CINE 23C Cult Cinema 3.0
CINE 57 Experimental Filmmaking. 3.0
CLAS 35 Tragic Drama of Greece 3.0
CMST 5 Intercultural Communication 3.0
CMST 8 Rhetoric of Popular Culture. 3.0
CMST 50 Rhetoric of Cannabis. 3.0
ENGL 1B Writing about Literature 4.0
ENGL 62 Video Games and Literature. 3.0
ENGL 30A American Literature, Beginnings to Civil War 3.0
ENGL 30B American Literature, 1865-present 3.0
ENGL 35A Introduction to Writing Fiction 3.0
ENGL 35B Intermediate Fiction Writing. 3.0
ENGL 35C Introduction to Writing Poetry. 3.0
ENGL 35D Intermediate Poetry Writing 3.0
ENGL 35G Introduction to Creative Nonfiction Writing. 3.0
ENGL 35H Intermediate Creative Nonfiction Writing . . 3.0
ENGL 43 Introduction to Poetry 3.0
ENGL 44A Survey of World Literature, Part 1: Ancient, Medieval, and Early Modern 3.0
ENGL 44B Survey of World Literature, Part II: Early Modern to the Present. 3.0
ENGL 46A Survey of Literature in English, Part 1: Beowulf through Milton 3.0
ENGL 46B Survey of Literature in English, Part 2: Late-17th through the Mid-19th Century 3.0
ENGL 46C Survey of Literature in English, Part 3: Mid-19th Century to Present 3.0
ENGL 48C Science Fiction and Fantasy 3.0
ENGL 48K The Bible as Literature 3.0
ENGL 51 The Graphic Novel as Literature. 3.0

ENGL 52 Shakespeare . . . 3.0
ENGL 55 Queer Literature . . . 3.0
ENGL 57 Survey of Women's Literature . . . 3.0
ENGL 58 Contemporary Women's Writing . . . 3.0
ETHN 37 Introduction to Ethnic Studies* . . . 3.0
ETHN 45 Pacific Islanders in the United States** . . . 3.0
FREN 1 Elementary French . . . 5.0
FREN 1A Elementary French . . . 3.0
FREN 1B Elementary French . . . 3.0
FREN 2 Continuation of Elementary French . . . 5.0
FREN 2A Continuation of Elementary French . . . 3.0
FREN 2B Continuation of Elementary French . . . 3.0
FREN 3 Intermediate French . . . 5.0
FREN 3A Intermediate French . . . 3.0
FREN 3B Intermediate French . . . 3.0
FREN 4 Cont. of Intermediate French . . . 3.0
FREN 10A Beginning Conversational French . . . 3.0
FREN 10B Continuation of Beginning Conversational French . . . 3.0
FREN 10C Intermediate Conversational French . . . 3.0
FREN 10D Continuation of Intermediate Conversational French . . . 3.0
FREN 11A Advanced Conversational French . . . 3.0
FREN 11B Advanced Conversational French . . . 3.0
FREN 22 Grammar Review and Composition . . . 3.0
FREN 41 Culture and Civilization of France . . . 3.0
FREN 42 Contemporary French Culture and Civilization . . . 3.0
GERM 1A Elementary German . . . 3.0
GERM 1B Elementary German . . . 3.0
HIST 1 The United States Since 1900 . . . 3.0
HIST 4A Western Civilization . . . 3.0
HIST 4B Western Civilization . . . 3.0
HIST 5 Europe Since 1900 . . . 3.0
HIST 9 Immigrants in U.S. History . . . 3.0
HIST 12A United States Women's History: Pre-colonial Through 1880s . . . 3.0
HIST 12B United States Women's History: 1890-Present . . . 3.0
HIST 15A History of the American Indian: Eastern Tribes . . . 3.0
HIST 15B History of the American Indian: Western Tribes . . . 3.0
HIST 17A United States History to 1877 . . . 3.0
HIST 17B The United States . . . 3.0
HIST 18A The Colonial History of Latin America . . . 3.0
HIST 18B History of Latin America Since Independence . . . 3.0
HIST 20 History of Mexico . . . 3.0
HIST 21 History of the Mexican American/Chicano . . . 3.0
HIST 35A Chinese History . . . 3.0
HIST 35B History of China . . . 3.0
HIST 37 History of the Philippines . . . 3.0
HIST 41A African American History From Ancestral West Africa to the Civil War . . . 3.0
HIST 41B 20th Century African American History from the Reconstruction to 21st Century . . . 3.0
HIST 45 LGBT American History . . . 3.0
HIST 49 History of San Francisco . . . 3.0
HUM 7 Comparative Religions . . . 3.0
HUM 11 Music, Art, and Literature: Traditional . . . 3.0
HUM 8 Philosophies of Religion . . . 3.0
HUM 12 Music/Art/Literature: Modern . . . 3.0
HUM 20 Bay Area Arts . . . 3.0
HUM 25 Women in the Arts . . . 3.0
HUM 41A Western Cultural Values: Pre-history to the Middle Ages . . . 3.0
HUM 41B Western Cultural Values . . . 3.0
HUM 48 African-American Music, Art and Literature . . . 3.0
IDST 3 Introduction to Museum Studies . . . 3.0
IDST 14 American Cultures in Literature and Film . . . 3.0
IDST 27B Asian Humanities: Contemporary . . . 3.0
IDST 29 Islam: Identity & Culture . . . 3.0
IDST 30 Demystifying the Middle East . . . 3.0
IDST 31 Women and Gender in the Middle East . . . 3.0
IDST 36 Poetry for the People . . . 3.0
IDST 37 Introduction to Ethnic Studies* . . . 3.0
IDST 45 Pacific Islanders in the United States . . . 3.0
IDST 46 Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania . . . 3.0
IDST 47 Trauma and the Arts: An Interdisciplinary Approach . . . 3.0
ITAL 1 Elementary Italian . . . 5.0
ITAL 1A Elementary Italian . . . 3.0
ITAL 1B Elementary Italian . . . 3.0
ITAL 2 Continuation of Elementary Italian . . . 5.0
ITAL 2A Continuation of Elementary Italian . . . 3.0
ITAL 2B Continuation of Elementary Italian . . . 3.0
ITAL 3A Continuation of Intermediate Italian . . . 3.0
ITAL 3B Continuation of Intermediate Italian . . . 3.0
ITAL 4A Continuation of Intermediate Italian . . . 3.0
ITAL 4B Continuation of Intermediate Italian . . . 3.0
ITAL 10A Beginning Conversational Italian . . . 3.0
ITAL 10B Beginning Conversational Italian . . . 3.0
ITAL 10C Intermediate Conversational Italian . . . 3.0
ITAL 10D Intermediate Conversational Italian . . . 3.0
ITAL 11A Continuation of Intermediate Conversational Italian . . . 3.0
ITAL 11B Continuation of Intermediate Conversational Italian . . . 3.0
ITAL 15A Advanced Conversational Italian . . . 3.0
ITAL 15B Advanced Conversational Italian . . . 3.0
JAPA 1 Elementary Japanese . . . 5.0
JAPA 1A Elementary Japanese . . . 3.0
JAPA 1B Elementary Japanese . . . 3.0
JAPA 2 Continuation of Elementary Japanese . . . 5.0
JAPA 2A Continuation of Elementary Japanese . . . 3.0
JAPA 2B Continuation of Elementary Japanese . . . 3.0
JAPA 3 Intermediate Japanese . . . 5.0
JAPA 3A Intermediate Japanese . . . 3.0
JAPA 3B Intermediate Japanese . . . 3.0
JAPA 4 Continuation of Intermediate Japanese . . . 5.0
JAPA 4A Continuation of Intermediate Japanese . . . 3.0
JAPA 4B Continuation of Intermediate Japanese . . . 3.0
JAPA 10A Beginning Conversational Japanese . . . 3.0
JAPA 10B Beginning Conversational Japanese . . . 3.0
JAPA 10C Intermediate Conversational Japanese . . . 3.0
JAPA 16 Beginning Kanji for Reading and Writing . . . 3.0
JAPA 39 Japanese Culture and Civilization . . . 3.0
LALS 1 The Latinx Experience in the United States . . . 3.0
LALS 2 Critical Thinking in Latinx Studies . . . 3.0

LGBT 11 History of LGBTQ+ Film: Silent Era to 1969 . . . 3.0
LGBT 15 From Greece to Stonewall: Global LGBTQ+ Literature, Art and Culture . . . 3.0
LGBT 18 Transgender Lives, Culture and Art . . . 3.0
LGBT 75 LGBTQ+ Film: in the 1970s and 1980s. . . . 3.0
PHIL 2 Introduction to Philosophy: Morality and Politics . . . 3.0
PHIL 4 Introduction to Philosophy: Knowledge and Its Limits. . . . 3.0
PHIL 25A Ancient Philosophy . . . 3.0
PHIL 25C Modern Philosophy Through Kant . . . 3.0
PHST 30 Philippine Society and Culture Through Film . . . 3.0
PHST 42 Introduction to Philippine Arts . . . 3.0
PIL 1 Elementary Filipino (Tagalog) . . . 5.0
PIL 2 Continuation of Elementary Filipino (Tagalog) . . . 5.0
PIL 10A Conversational Filipino (Tagalog) . . . 3.0
PIL 10B Conversational Filipino (Tagalog) . . . 3.0
PIL 10C Intermediate Conversational Pilipino . . . 3.0
PIL 39A Philipine Literature in Translation: Philippine Literature to 1940. . . . 3.0
PIL 39B Philippine Literature in Translation: Literature from 1940 to the Present . . . 3.0
RUSS 1A Elementary Russian . . . 3.0
RUSS 1B Elementary Russian. . . . 3.0
RUSS 21A Elementary Russian for Bilingual Students . . . 3.0
RUSS 21B Elementary Russian for Bilingual Students . . . 3.0
SPAN 1 Elementary Spanish. . . . 5.0
SPAN 1A Elementary Spanish . . . 3.0
SPAN 1B Elementary Spanish . . . 3.0
SPAN 2 Continuation of Elementary Spanish . . . 5.0
SPAN 2A Continuation of Elementary Spanish . . . 3.0
SPAN 2B Continuation of Elementary Spanish . . . 3.0
SPAN 3 Intermediate Spanish . . . 5.0
SPAN 3A Intermediate Spanish. . . . 3.0
SPAN 3B Intermediate Spanish . . . 3.0
SPAN 5 Advanced Spanish: Hispanic Culture and Civilization. . . . 3.0
SPAN 5S Advanced Spanish: Hispanic Culture and Civilization. . . . 3.0
SPAN 6A Continuation of Intermediate Spanish . . . 3.0
SPAN 6B Continuation of Intermediate Spanish . . . 3.0
SPAN 7 Intro. to Literature in Spanish . . . 3.0
SPAN 10A Beginning Conversational Spanish . . . 3.0
SPAN 10B Continuation of Beginning Conversational Spanish . . . 3.0
SPAN 10C Intermediate Conversational Spanish . . . 3.0
SPAN 10D Continuation of Intermediate Conversational Spanish . . . 3.0
SPAN 31A Spanish for Heritage Speakers 1A. . . . 3.0
SPAN 31B Spanish for Heritage Speakers 1B . . . 3.0
SPAN 32A Spanish for Heritage Speakers 2A . . . 3.0
SPAN 32B Spanish for Heritage Speakers 2B. . . . 3.0
WGST 10 Women and Film . . . 3.0
WORL 100 Introduction to Intercultural Communication and Language Learning . . . 3.0

* Students may receive credit for either ETHN 37 or IDST 37.

** Students may get credit for either ETHN 45 or IDST 45.

Total: . . . 18.0

Communication Emphasis (AA) Associate in Arts in Communication

The Liberal Arts and Sciences degree is designed for students who wish to have a broad knowledge of arts and sciences plus additional knowledge in an "Area of Emphasis." This degree can be a good option for students planning to transfer to a university as it provides the flexibility for students to satisfy both general education and lower division major requirements for specific universities while meeting associate degree requirements at the same time. For more detailed information on transfer requirements, students should speak with a counselor and refer to ***www.ASSIST.org***.

The courses in the Communciation emphasis cover the content of communication as well as the form and should provide an understanding of the psychological basis and social significance of communication.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the principles and application of language toward logical thought.
- Demonstrate clear and precise expression.
- Critically evaluate communications in whatever symbol system the student uses.

Each course used to meet this "area of emphasis" requirement must be completed with a grade of "C" or higher (or "Credit" or "Pass" if the course was taken on a "credit/no credit" or "pass/no pass" basis). Where appropriate, courses in the "area of emphasis" may also be counted for a General Education area.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Liberal Arts and Sciences Emphasis in Communication

Course . . . Units

Complete 18 units from the following courses:

CMST 1A Elements of Public Speaking . . . 3.0
CMST 2 Introduction to Rhetorical Criticism . . . 3.0
CMST 3 Argumentation and Debate . . . 3.0
CMST 4 Group Communication . . . 3.0
CMST 5 Intercultural Communication . . . 3.0
CMST 6 Workplace Communication. . . . 3.0
CMST 7 Oral Interpretation of Literature . . . 3.0
CMST 8 Rhetoric of Popular Culture. . . . 3.0
CMST 20 Interpersonal Communication . . . 3.0
CMST 50 Rhetoric of Cannabis. . . . 3.0
ENGL 1A College Reading and Composition . . . 4.0
ENGL 1B Writing about Literature . . . 4.0
ENGL 1C Writing about Nonfiction . . . 4.0
ESL 79 Advanced Speaking and Pronunciation . . . 3.0
LALS 2 Critical Thinking in Latinx Studies. . . . 3.0
PHIL 2 Introduction to Philosophy: Morality and Politics . . . 3.0
PHIL 4 Introduction to Philosophy: Knowledge and Its Limits. . . . 3.0
PHIL 40 Introduction to Logic: Critical Thinking . . . 3.0

Total: . . . 18.0

Science and Mathematics Emphasis (AS) Associate in Science in Science and Mathematics

The Liberal Arts and Sciences degree is designed for students who wish to have a broad knowledge of arts and sciences plus additional knowledge in an "Area of Emphasis." This degree can be a good option for students planning to transfer to a university as it provides the flexibility for students to satisfy both general education and lower division major requirements for specific universities while meeting associate degree requirements at the same time. For more detailed information on transfer requirements, students should speak with a counselor and refer to ***www.ASSIST.org***.

The courses in the Science and Mathematics emphasis cover the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in Math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply scientific inquiry and investigation of evidence to critically evaluate scientific arguments.
- Communicate scientific ideas and theories effectively.
- Apply scientific principles, theories, or models to explain the behavior of natural phenomena.
- Apply scientific knowledge and reasoning to human interaction with the natural world and issues impacting society.
- Apply mathematical concepts through numerical, symbolic, graphical, and verbal methods to interpret quantitative information, solve problems, and communicate results

Each course used to meet this "area of emphasis" requirement must be completed with a grade of "C" or higher (or "Credit" or "Pass" if the course was taken on a "credit/no credit" or "pass/no pass" basis). Where appropriate, courses in the "area of emphasis" may also be counted for a General Education area.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Liberal Arts and Sciences Emphasis in Science and Mathematics

Course . . . . . Units

Complete 18 units from the following courses (at least one each from Science and Math options):

SCIENCE COURSES: CHOOSE AT LEAST ONE:

ANTH 1 Biological Anthropology 3.0
ASTR 1 Cosmic Evolution 3.0
ASTR 4 Life in the Universe. 3.0
ASTR 16 Observational Astronomy 1.0
ASTR 17 Planets. 3.0
ASTR 18 Stars 3.0
ASTR 19 Galaxies and the Universe 3.0
BIO 9 Human Biology 4.0
BIO 10 Animal Biology. 4.0
BIO 11 Science of Living Organisms 4.0
BIO 12 Plant Biology 4.0
BIO 14 Plant Ecology 4.0
BIO 15 Biology of HIV 3.0
BIO 19 Ecology. 4.0
BIO 20 Introduction to Ecology 3.0
BIO 21M Coastal Ecosystem Field Studies. 2.0
BIO 32 Marine Biology 3.0
BIO 32L Marine Biology Laboratory 1.0
BIO 33 Introduction to Conservation Biology 3.0
BIO 40 Plants and Animals of California 3.0
BIO 51 Introduction to Genetics 3.0
BIO 53 Human Genetics. 3.0
BIO 61 The Biology of Cancer 3.0
BIO 100A General Biology. 5.0
BIO 100B General Biology 5.0
BIO 106 Introduction to Human Anatomy and Physiology 4.0
BIO 108 General Human Anatomy. 4.0
BIO 111 Human Physiology 5.0
BIO 112 Introduction to Human Physiology 4.0
BIO 114 Exploring Neuroscience: An introduction to the Brain 3.0
BIO 118B Introduction to Entomology. 3.0
BIO 119 Emerging Diseases 3.0
BIO 120 Introduction to Microbiology. 4.0
BIO 121 Principles of Food Safety 2.0
BIO 130 Nutrition and Culinary Arts. 2.0
BIO 132 Introduction to Nutrition 3.0
BIO 134 Introduction to Nutrition for Health Sciences . . . 3.0
BTEC 115 Recombinant DNA Biotechnology 5.0
BTEC 4 Introduction to Biotechnology. 3.0
BTEC 120 Molecular and Cell Biotechnology. 5.0
CHEM 32 Introduction to Medical Chemistry. 4.0
CHEM 40 Introduction to Chemical Principles. 5.0
CHEM 101A General College Chemistry. 6.0
CHEM 101B General College Chemistry 5.0
CHEM 103A General Chemistry for Engineering 5.0
CHEM 110 Chemistry and the Environment. 3.0
CHEM 208A Chemical Structure and Reactivity I. 4.0
CHEM 208B Chemical Structure/Reactivity II. 4.0
CHEM 212A Organic Chemistry 6.0
CHEM 212B Organic Chemistry II. 6.0
ENRG 3 Introduction to Alternative Energy. 3.0
ENVS 31 Introduction to Environmental Science. 3.0
ENVS 31L Environmental Science Laboratory 1.0
ENRG 3L Introduction to Alternative Energy Laboratory . 1.0
GEOG 1 Physical Geography 3.0
GEOG 1L Physical Geography Laboratory 1.0
GEOL 10 Physical Geology 3.0
GEOL 10L Physical Geology Lab. 2.0
GEOL 11 Historical Geology 3.0
GEOL 11L Historical Geology Lab 1.0
GEOL 30 Environmental Geology 3.0
GEOL 30L Environmental Geology Lab 1.0
GEOL 111 Historical Geology with Lab 4.0
HLTH 70 Physiological Effects of Addiction. 3.0
O H 76 Fall and Winter Plant Identification 4.0
OCAN 1 Oceanography 3.0
OCAN 1L Oceanography Lab 2.0
O H 77 Spring and Summer Plant Identification 4.0
P SC 11 Conceptual Physical Science 3.0
P SC 11L Physical Science Laboratory. 1.0
PHYC 2A Introductory Physics I 3.0
PHYC 2AL Introductory Physics Laboratory 1.0
PHYC 2B Introductory Physics II. 3.0
PHYC 2BL Introductory Physics Laboratory 1.0

PHYC 4A Classical Mechanics for Scientists and Engineers . . . 3.0
PHYC 4AL Mechanics Laboratory for Scientists and Engineers . . . 1.0
PHYC 4B Electromagnetism for Scientists and Engineers . . . 3.0
PHYC 4BL Electromagnetism Laboratory for Scientists and Engineers . . . 1.0
PHYC 4C Waves and Thermodynamics for Scientists and Engineers . . . 3.0
PHYC 4CL Waves and Thermodynamics Laboratory for Scientists and Engineers . . . 1.0
PHYC 4D Modern Physics for Scientists and Engineers . . . 3.0
PHYC 4DL Modern Physics Laboratory for Scientists and Engineers . . . 1.0
PHYC 10 Conceptual Physics . . . 3.0
PHYC 10L Conceptual Physics Laboratory . . . 1.0
PHYC 20 Physics of Sports . . . 3.0
PHYC 41 Preparatory Physics . . . 3.0
PSYC 1B Biological Psychology . . . 3.0

MATH COURSES: CHOOSE AT LEAST ONE:

CS 10 Introduction to Computer Science . . . 4.0
ECON 5 Introductory Statistics for Economics, Business and Social Sciences . . . 5.0
ET 50 Technical Mathematics . . . 4.0
FIN 136M Personal Financial Planning Math Emphasis . . . 3.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies . . . 5.0
MATH 70 Liberal Arts Math . . . 3.0
MATH 75 Mathematical Analysis for Business . . . 3.0
MATH 80 Probability and Statistics . . . 5.0
MATH 90 Precalculus Algebra . . . 5.0
MATH 92 College Algebra . . . 5.0
MATH 95 Trigonometry . . . 3.0
MATH 98 Precalculus & Trigonometry . . . 7.0
MATH 100A Short Calculus I . . . 3.0
MATH 100B Short Calculus II . . . 3.0
MATH 108 Foundations of Data Science . . . 5.0
MATH 110A Calculus I . . . 5.0
MATH 110B Calculus II . . . 5.0
MATH 110C Calculus III . . . 5.0
MATH 115 Discrete Mathematics . . . 3.0
MATH 120 Linear Algebra . . . 3.0
MATH 125 Differential Equations . . . 3.0
MATH 130 Linear Algebra and Differential Equations . . . 5.0
PHIL 12A Symbolic Logic . . . 5.0
PSYC 5 Statistics for Behavioral Sciences . . . 5.0

Total: . . . 18.0

Social and Behavioral Sciences Emphasis (AS) Associate in Science in Social and Behavioral Sciences

The Liberal Arts and Sciences degree is designed for students who wish to have a broad knowledge of arts and sciences plus additional knowledge in an "Area of Emphasis." This degree can be a good option for students planning to transfer to a university as it provides the flexibility for students to satisfy both general education and lower division major requirements for specific universities while meeting associate degree requirements at the same time. For more detailed information on transfer requirements, students should speak with a counselor and refer to ***www.ASSIST.org***.

The courses in the Social and Behavioral Sciences emphasis cover the perspective, concepts, theories and methodologies of the disciplines typically found in the vast variety of disciplines that comprise study in the Social and Behavioral Sciences.

Learning Outcomes

Upon completion of this program, students will be able to:

- Exhibit an understanding of the methods of inquiry used by the social and behavioral sciences.
- Critically evaluate the ways people act, think, and feel in response to their societies or cultures.
- Analyze how societies and/or social subgroups operate.

Each course used to meet this "area of emphasis" requirement must be completed with a grade of "C" or higher (or "Credit" or "Pass" if the course was taken on a "credit/no credit" or "pass/no pass" basis). Where appropriate, courses in the "area of emphasis" may also be counted for a General Education area.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is 4 semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Liberal Arts and Sciences Emphasis in Social and Behavioral Sciences

Course . . . Units

Complete 18 units from the following courses (at least one course from Behavioral Sciences and one from Social Sciences):

BEHAVIORAL SCIENCES: CHOOSE AT LEAST ONE OF THE FOLLOWING COURSES:

AAPS 100 Achieving an Academic Attitude . . . 3.0
ADMJ 59 Organized Crime . . . 3.0
ADMJ 67 Terrorism and Counterterrorism . . . 3.0
AFAM 30 African American Consciousness . . . 3.0
ANTH 2 Archaeology and Prehistory . . . 3.0
ANTH 3 Introduction to Social and Cultural Anthropology . . . 3.0
ANTH 3C Introduction to Cultural Anthropology: Focus on U.S. Cultures . . . 3.0
ANTH 4 Introduction to Linguistic Anthropology . . . 3.0
ANTH 8 Magic, Witchcraft, and Religion . . . 3.0
ANTH 11 Latin American Cultures and Societies . . . 3.0
ANTH 12 Indigenous Peoples of North America . . . 3.0
ANTH 15 Philippine Culture and Society . . . 3.0
ANTH 20 Queer Anthropology . . . 3.0
ANTH 25 Culture, Gender and Sexuality . . . 3.0
ANTH 50 Anthropology of Cannabis . . . 3.0
ASAM 8 Filipino American Community . . . 3.0
ASAM 27 Asian American Race Relations . . . 3.0
ASAM 35 Asian American Women . . . 3.0
ASAM 40 Chinese American Community . . . 3.0
ASAM 42 Southeast Asians in the U.S.: Experience and Culture . . . 3.0

ASAM 61 Asian American Community Field Study . . . . . 2.0 – 4.0
BCST 103 Mass Media and Society 3.0
CDEV 53 Child Growth and Development 3.0
CDEV 67 Child, Family, and Community 3.0
CDEV 68 Interactions with Children 3.0
CDEV 97 School Age Growth & Development 3.0
CMST 5 Intercultural Communication 3.0
HLTH 10 Health and Aging 3.0
HLTH 30 Drugs, Health, and Society 3.0
HLTH 54 Introduction to Public Health 3.0
HLTH 97 Stress and Resilience 3.0
HLTH 221 Health and Social Justice 3.0
IDST 4 Ways of Faith 3.0
IDST 17 Human Sexuality 3.0
IDST 37 Introduction to Ethnic Studies 3.0
IDST 45 Pacific Islanders in the United States* 3.0
IDST 80A Diversity and Social Justice: Racism 0.5
IDST 80C Diversity and Social Justice: Sexism 0.5
IDST 80D Diversity and Social Justice: Heterosexism 0.5
IDST 80E Diversity and Social Justice: Ableism 0.5
IDST 80F Diversity and Social Justice: Class and Classism 0.5
IDST 80G Diversity and Social Justice: Transphobia 0.5
IDST 81B Diversity and Social Justice: Anti-Semitism/Anti-Arabism 1.0
LALS 10 Latinas in the U.S./VOCES 3.0
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3.0
LGBT 10 LGBT Culture & Society 3.0
LGBT 21 Intimacy and Relationships between Women and Nonbinary People 3.0
LGBT 24 Male Intimacy and Relationships 3.0
LGBT 50 LGBT Communities of Color in the U.S. 3.0
PE 13 Sports in Society 3.0
PHST 20 The Filipino Family 3.0
PHST 30 Philippine Society and Culture Through Film 3.0
PSYC 1 General Psychology 3.0
PSYC 2 Research Methods 3.0
PSYC 4 Forensic Psychology 3.0
PSYC 10 Abnormal Psychology 3.0
PSYC 11 Theories of Personality 3.0
PSYC 14 Psychology of Shyness 1.0
PSYC 15 Assertive Behavior 1.0
PSYC 17 Psychology of Eating, Food, and Weight 1.0
PSYC 21 Lifespan Development 3.0
PSYC 23 Psychology of Race and Ethnic Relations 3.0
PSYC 25 Psychology of Gender 3.0
PSYC 26 Applied Psychology 3.0
PSYC 32 Social Psychology 3.0
PSYC 40 Child and Adolescent Psychology 3.0
PSYC 50 Psychology of Psychoactive Drugs 3.0
SOC 1 Introduction to Sociology 3.0
SOC 2 Sociology of Deviance and Crime 3.0
SOC 3 Social Problems 3.0
SOC 11 Intro to Social Work and Human Services 3.0
SOC 21 Introduction to Research Methods 3.0
SOC 25 Sex and Gender in the U.S. 3.0
SOC 35 Sex, Marriage, and Family Relationships 3.0
SOC 52 Men, Masculinity, and Society 3.0
SOC 55 Introduction to Cannabis Studies 3.0
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified 3.0
WGST 35 Introduction to Masculinity Studies 3.0
WGST 54 The Politics of Sexual Violence 3.0

SOCIAL SCIENCES: CHOOSE AT LEAST ONE OF THE FOLLOWING COURSES:

ADMJ 65 Criminal Justice, Drugs, Crime and the Law 3.0
ADMJ 57 Introduction to Administration of Justice 3.0
ADMJ 67 Terrorism and Counterterrorism 3.0
AFAM 40 The Black Experience in California 3.0
AFAM 42 The Origins and History of Race Theory and Modern Racism 3.0
AFAM 55 From Funk to Hip Hop 3.0
AFAM 60 African American Women in the U.S. 3.0
AMS 5 Comics, Power, and Society 3.0
ASAM 1 Introduction to Asian American Studies 3.0
ASAM 20 Asian American Experience Since 1820 . . . . . 3.0
ASAM 22 Community Issues & Leadership 3.0
ASAM 23 Asian Americans and American Ideals and Institutions 3.0
ASAM 27 Asian American Race Relations 3.0
ASAM 30 Asian American Issues Through Film 3.0
ASAM 35 Asian American Women 3.0
BCST 101 Media Literacy 3.0
ECON 1 Principles of Macroeconomics 3.0
ECON 3 Principles of Microeconomics 3.0
ECON 6 International Economics 3.0
ECON 15 Political Economy 3.0
ECON 20 LGBT Economics 3.0
ECON 22 Introduction to Environmental Economics 3.0
ECON 25 Women in the Economy 3.0
ECON 30 Economics of the African American Community 3.0
ETHN 45 Pacific Islanders in the United States* 3.0
GEOG 3 World Regional Geography 3.0
GEOG 4 Cultural Geography 3.0
GEOG 7 Economic Geography 3.0
HIST 1 The United States Since 1900 . . . . . 3.0
HIST 4A Western Civilization 3.0
HIST 4B Western Civilization 3.0
HIST 5 Europe Since 1900 . . . . . 3.0
HIST 9 Immigrants in U.S. History 3.0
HIST 12A United States Women's History: Pre-colonial Through 1880s 3.0
HIST 12B United States Women's History: 1890-Present 3.0
HIST 15A History of the American Indian: Eastern Tribes 3.0
HIST 15B History of the American Indian: Western Tribes 3.0
HIST 17A United States History to 1877 . . . . . 3.0
HIST 17B The United States 3.0
HIST 18A The Colonial History of Latin America 3.0
HIST 18B History of Latin America Since Independence 3.0

HIST 20 History of Mexico 3.0
HIST 21 History of the Mexican American/Chicano 3.0
HIST 35A Chinese History 3.0
HIST 35B History of China 3.0
HIST 37 History of the Philippines 3.0
HIST 41A African American History From Ancestral West Africa to the Civil War 3.0
HIST 41B 20th Century African American History from the Reconstruction to 21st Century 3.0
HIST 45 LGBT American History 3.0
HIST 49 History of San Francisco 3.0
HLTH 52 Critical Perspectives in Global Health 3.0
HLTH 56 Politics of Food and Health 3.0
HLTH 110 Health Impacts of Incarceration 3.0
HLTH 231 Healthy Cities and Communities 3.0
IDST 7 Introduction to the United Nations 3.0
IDST 29 Islam: Identity & Culture 3.0
IDST 30 Demystifying the Middle East 3.0
IDST 31 Women and Gender in the Middle East 3.0
IDST 37 Introduction to Ethnic Studies 3.0
IDST 45 Pacific Islanders in the United States* 3.0
INTR 162 Introduction to International Business 3.0
LALS 1 The Latinx Experience in the United States 3.0
LALS 2 Critical Thinking in Latinx Studies 3.0
LALS 9 The Latinx LGBTQ+ Experience** 3.0
LALS 11 Drug Wars in the Americas 3.0
LALS 13 Latin American Social Movements 3.0
LALS 14 Diego Rivera: Art and Social Change in Latin America 3.0
LALS 15 Latin American Workers in the Americas 3.0
LBCS 15 Latin American Workers in the Americas 3.0
LBCS 70A Who Built America? 1492-1877 . . . . . 3.0
LBCS 70B Who Built America? From Reconstruction to the Present 3.0
LBCS 88 California Labor History 3.0
LBCS 96C Labor Relations in the Modern American Workplace 3.0
LBCS 114 Shaping Public Policy for Labor and Community Organizations 3.0
LBCS 115 Workforce Development & Land Use For Labor & Community Groups 3.0
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3.0
LGBT 9 The Latinx LGBTQ+ Experience** 3.0
LGBT 50 LGBT Communities of Color in the U.S. 3.0
PHST 40 Contemporary Issues in the Filipino Diaspora . . 3.0
POLS 1 American Government 3.0
POLS 2 Comparative Government 3.0
POLS 3 Political Theory 3.0
POLS 4 The Politics of Globalization 3.0
POLS 5 International Relations 3.0
POLS 12 Ethnic Politics in the United States 3.0
POLS 15 Introduction to Public Policy 3.0
POLS 18 Government & Politics of Latin America 3.0
POLS 19 Gender, Politics, and Policy 3.0
POLS 22 Environmental Politics and Policy 3.0
POLS 43 The Constitution and Individual Rights 3.0
POLS 45 Governments and Politics of Middle East 3.0
WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified 3.0
WGST 35 Introduction to Masculinity Studies 3.0

* Students may get credit for either ETHN 45 or IDST 45.
** Students may get credit for either LALS 9 or LGBT 9.

Total: 18.0

Library Information Technology

Office: Rosenberg 517
Phone Number: (415) 452-5519
Web Site: *www.ccsf.edu/libintec*

Announcement of Curricula

General Information

The curricula in Library Information Technology aims to meet the needs of individuals seeking paraprofessional employment or advancement in a library or related information service agency; or those seeking an introduction to libraries and information services in anticipation of further study in library science.

The associate degree major complements requirements for graduation from the college, while the program leading to a certificate is designed for individuals transferring to a senior college or already possessing an academic degree.

Admission. Enrollment is open to all interested students.

Degree Curriculum

The associate degree program is designed as an academic major for students satisfying requirements for graduation from City College.

Students completing the major requirements listed below and the other graduation requirements will receive the Associate in Science in Library Information Technology. General education, elective and advised courses will be selected according to the student's educational and occupational objectives.

Library Information Technology Major (AS)

The curricula in Library Information Technology meets the need of individuals seeking paraprofessional employment or advancement in a library or related information service agency; or those seeking an introduction to libraries and information services in anticipation of further study in library science.

The course of study includes instruction in library organization and services; standard reference materials; supervision; computer applications; the acquisition, processing, and cataloging of print and non-print materials, legal, medical and business resources, and practical experience in a library or resource center. Students are encouraged to augment study with courses from other college departments such as office systems, visual media design, or computer networking and communications technologies.

Students should assume entry-level library work early in their career although there are opportunities to advance within library systems. Those who complete the curriculum may find advantages in civil-service with federal, state, county, and city agencies.

Learning Outcomes

Upon completion of this program, students will be able to:

- Explain the acquisition, description, storage, retrieval and use of library information products and services.
- Analyze problems of information access for various populations, within legal and ethical contexts.

- Apply technical and practical skills and functions in the use of library resources and for library and related employment.
- Evaluate the quality of information products and services, both for agency purchase and for practical or academic use.
- Explain management structures, employment needs and entry-level job expectations in library and information workplace environments.

Assuming students start this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Library Information Technology

Course	Units
Required	
LIBR 51 Introduction to Libraries and Library Resources	3.0
LIBR 53 Library Public Services for Library Technicians	3.0
LIBR 55A Cataloging and Classification	3.0
LIBR 55B Technical and Access Services for Library Technicians	3.0
LIBR 56 Computers in Libraries	3.0
Choose 4 units from the following	
LIBR 57 Online Research Strategies	2.0
LIBR 58A Legal Resources and Libraries	1.0
LIBR 58B Medical Resources and Libraries	2.0
LIBR 58C Business Resources and Libraries	2.0
LIBR 59 Library Work Experience	1.0 – 3.0

Recommended additional coursework may be taken for skills development in WOPR, MABS, CNIT, VMD, or CMST, or for sophistication in the arts, social sciences and humanities.

Total: 19.0

Library Information Technology Certificate

The certificate in Library Information Technology is designed for those already holding academic degrees (Associate or higher) who seek paraprofessional employment or advancement in a library or related information service agency; or those seeking an introduction to libraries and information services in anticipation of further study in library science.

The course of study includes instruction in library organization and services; standard reference materials; supervision; computer applications; the acquisition, processing, and cataloging of print and non-print materials, legal, medical and business resources, and practical experience in a library or resource center. Students are encouraged to augment study with courses from other college departments such as office systems, visual media design, or computer networking and communications technologies.

Library support staff are taking on greater responsibilities in all types of libraries. Students should assume entry-level library work early in their studies although there are opportunities to advance within library systems. Those who complete the curriculum may find advantages in civil service with federal, state, county, and city agencies.

Learning Outcomes

Upon completion of this program, students will be able to:

- Explain the acquisition, description, storage, retrieval and use of library information products and services.
- Analyze problems of information access for various populations, within legal and ethical contexts.
- Apply technical and practical skills and functions in the use of library resources and for library and related employment.
- Evaluate the quality of information products and services, both for agency purchase and for practical or academic use.
- Explain management structures, employment needs and entry-level job expectations in library and information workplace environments.

Courses from other institutions may transfer, but half of all work should be completed at City College of San Francisco. All coursework must be taken within a ten-year period.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Library Information Technology

Course	Units
Required	
LIBR 51 Introduction to Libraries and Library Resources	3.0
LIBR 53 Library Public Services for Library Technicians	3.0
LIBR 55A Cataloging and Classification	3.0
LIBR 55B Technical and Access Services for Library Technicians	3.0
LIBR 56 Computers in Libraries	3.0
Choose 3 units from the following	
LIBR 57 Online Research Strategies	2.0
LIBR 58A Legal Resources and Libraries	1.0
LIBR 58B Medical Resources and Libraries	2.0
LIBR 58C Business Resources and Libraries	2.0
LIBR 59 Library Work Experience	1.0 – 3.0

Recommended additional coursework may be taken for skills development in WOPR, MABS, CNIT, VMD, or CMST, or for sophistication in the arts, social sciences and humanities.

Total: 18.0

Announcement of Courses

Credit, Degree Applicable Courses:

LIBR 51. Introduction to Libraries and Library Resources (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MABS 60
Addresses major foundations, access, technology, and reference competencies for library support staff. Surveys historical and contemporary resources and the functions and organization of libraries. Emphasis on catalogs, discovery systems, databases, and the evaluation and documentation of resources. CSU
Offered Fall and Spring semesters

LIBR 53. Library Public Services for Library Technicians (3)
Lec-52.5, field trips P/NP available
Recommended Prep: LIBR 51
Provides an introduction to public services in all library types. Overview of the types of positions and career opportunities available in this area to Library Technicians. Focus includes reference, programming, and most public-facing library services. CSU
Offered Fall semesters

LIBR 55A. Cataloging and Classification (3)
Lec-52.5 P/NP available
Prereq: LIBR 51
Recommended Prep: MABS 60
Addresses major cataloging and technology competencies for library support staff. Employs current tools and techniques for description, access, classification, library catalogs and discovery systems in a modem library. Explores emerging library systems and technologies for cataloging. CSU
Offered Spring semesters

LIBR 55B. Technical and Access Services for Library Technicians (3)
Lec-52.5, field trips P/NP available
Recommended Prep: LIBR 51
Provides an overview of the paraprofessionals's role in the library technical and access services units of a library. Surveys the philosophy of practice, service functions and personnel categories employed in cataloging, acquisitions, serials, systems, and access (circulation) services. Focuses on technical skills needed to work in these library departments in a paraprofessional capacity and on current trends and issues. CSU
Offered Spring semesters

LIBR 56. Computers in Libraries (3)
Lec-52.5, field trips P/NP available
Recommended Prep: LIBR 51
Addresses major communications, teamwork, foundations, and technology competencies for library support staff. Surveys digital technologies in a modem library and networked environment; emphasizes technological change in creating, delivering, and using information products and services. CSU
Offered Fall semesters

LIBR 57. Online Research Strategies (2)
Lec-35, field trips P/NP available
Supports reference, communications, teamwork, foundations and technology competencies for library support staff; introduces the general student to effective strategies for search, research and resource evaluation on the Web. CSU
Formerly Internet Research Strategies
Elective offered at the department's discretion

LIBR 58. Special Libraries and Information Centers (3)
Lec-52.5, field trips P/NP available
Recommended Prep: LIBR 51
Reference, communication, teamwork, resources, and technology competency for library support staff working in special libraries and information centers. Surveys need and use of specialized information for personal, corporate, or academic use from print and online resources in a variety of special libraries. Types of special libraries covered in this course will vary by semester. CSU
Elective offered at the department's discretion

LIBR 58A. Legal Resources and Libraries (1)
Lec-17.5
Recommended Prep: (Readiness for college-level English or ESL 188) and MABS 60
This course introduces the law library -- its organization and its contents. There are also an overview of the different sources of law (both in print and online) and training in a legal research database. Students will be asked to locate and examine each source of law. CSU
Elective offered at the department's discretion

LIBR 58B. Medical Resources and Libraries (2)
Lec-35, field trips P/NP available
Recommended Prep: LIBR 51 and MABS 60 and (readiness for college- level English or ESL 188)
Supports reference, communications, teamwork, foundations and technology competencies for library support staff. Surveys need and use of medical information for personal, corporate or academic use from print and online resources. CSU
Elective offered at the department's discretion

LIBR 58C. Business Resources and Libraries (2)
Lec-35, field trips P/NP available
Recommended Prep: LIBR 51 and MABS 60
Supports reference, communications, teamwork, foundations and technology competencies for library support staff. Surveys need and use of business information and libraries for personal, corporate or academic use from print and online resources. CSU
Elective offered at the department's discretion

LIBR 59. Library Work Experience (1-3)
Work-60-225 P/NP available
Prereq: Approval of the Library Information Technology Department.
Recommended Prep: LIBR 53; LIBR 55A or LIBR 51; LIBR 55B; LIBR 56; MABS 60
Repeat: Students can repeat once (total 2 enrollments)
Build competencies needed to work as a library technician through supervised work experience. Workplaces include all types of libraries and in both public or technical service areas. Highly recommended for advanced students with no library work experience or those seeking advancement. Focus: skill building; workplace safety, interpersonal skills, and communication; goal clarification; network development. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU
Offered Fall and Spring semesters

Library Information Skills

Office: Rosenberg 413
Phone Number: (415) 452-5571
Web Site: *https://library.ccsf.edu/research/lis-10*

Announcement of Courses

Credit, Degree Applicable Course:

LI S 10. Introduction to Research Skills (1)
Lec-18 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Information competency skills help students be more effective consumers and creators of information. This course helps students develop awareness and resilience for life, work, & study in a society overloaded with information. Disinformation, algorithmic bias, Web search strategies, fact-checking, privacy, plagiarism, & information ethics are covered. Techniques include using online library databases, identifying information types, and citing & selecting credible and relevant scholarly sources. UC/CSU
Especially useful for students concurrently enrolled in an English composition course or any other course that requires a research paper or project.

Life Science*

* See Biological Sciences.

Maker Studies

Office: Science 220
Phone Number: (415) 239-3396
Website: *www.ccsf.edu/makersphere*

Announcement of Curricula

Collaborative Design Certificate

The certificate program in Collaborative Design provides students with a strong foundation in multidisciplinary approaches to design and collaboration. This approach offers students the collaborative skills and experiences needed for success in today's workplace. The program enhances a focused study in any design discipline and also provides an introduction to design thinking and making for all students.

Learning Outcomes

Upon completion of this program, students will be able to:

- Discuss historical and contemporary collaborative processes across a range of disciplines.
- Manage a design process with a collaborative creative team.
- Apply design vocabulary in developing concepts and approaches to various design solutions.
- Employ a structured iterative process to solve a variety of design problems.
- Apply various ideation techniques as tools for visual problem solving.
- Integrate color theory/harmonies in assembling creative works.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Collaborative Design

Course	Units
Required	
DSGN 101 Design Fundamentals	3.0
DSGN 105 Design Thinking	1.5
DSGN 110 Design Drawing Techniques	1.5
DSGN 150/VMD 118 Color in Design	3.0
CMST 4 Group Communication	3.0
Choose 2 units from the following	
ART 125A Basic Design: 2-D Foundations	3.0
ART 126 Color	3.0
ART 130A Basic Drawing	3.0
ART 132A Beginning Figure Drawing	3.0
FASH 36A Fashion Design I	3.0
FASH 42 Introduction to the Fashion Industry	3.0
IDST 3 Introduction to Museum Studies	3.0
PHOT 50B History & Aesthetics Since 1945	4.0
PHOT 50A History & Aesthetics Pre-1945	4.0
PHOT 51 Beginning Photography	3.0
PHOT 60A Photoshop for Photographers 1	3.0
PHOT 60B Photoshop for Photographers 2	3.0
PHOT 101C Self Portraiture	1.0
PHOT 101D Landscape Photography	1.0
PHOT 101G Pinhole Photography	1.0
VMD 105 Visual Media Digital Skills	3.0
VMD 120 Graphic Design I	3.0
VMD 130 Typography I	3.0
VMD 140 Web Production I	3.0
VMD 150 Illustrator I	3.0
VMD 152 InDesign I	3.0
VMD 154 Photoshop I	3.0
Total:	**14.0**

Announcement of Courses

Credit, Degree Applicable Courses:

MAKR 33. Making and Makerspaces for Teachers (1)
Lec-17.5, field trips P/NP available
Teacher preparation for making and makerspaces in educational settings. Topics include experiential learning and other applicable learning frameworks, facilitation strategies for making and makerspaces, learning activities and curriculum, and equipment, tools and supplies found in makerspaces. CSU

MAKR 100. Introduction to History, Culture and Practices of Making (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to the Maker Movement, a survey of cultures, disciplines, materials, and technologies related to the traditions of making through time and around the world. Students will recognize key materials and techniques of disciplines including the arts, construction, engineering, and computer science to critically analyze and apply ways of creating that support an understanding of culturally significant work of diverse peoples and eras. UC/CSU

MAKR 400. Maker Capstone (3)
Lec-35, Lab-52.5, field trips
Prereq: MAKR 100
Students will complete cross-discipline projects of their own design. Each student will conceptualize, prototype, test, and develop a working model to prove their design using materials and techniques of traditionally disparate disciplines. CSU

Noncredit Course:

MAKR 1000. Supervised Making (50 hrs)
Coreq: Concurrent enrollment in any MAKR course
Academic support, supervised making and supervised use of campus makerspaces. Students work on assignments given in other CCSF maker-related credit and non-credit courses. Instructor assists students with makerspace tools, equipment, materials, and methods.

Mathematics

Office: Batmale 756
Phone Number: (415) 239-3478
Web Site: *www.ccsf.edu/math*

Announcement of Curricula

Mathematics Major (AS-T)

The Associate in Science in Mathematics for Transfer degree is designed to provide students with sufficient understanding of mathematical concepts, skills, and applications to succeed in upper division coursework in mathematics at a four-year college or university.

Students who complete this degree are guaranteed acceptance to a California State University but are not guaranteed acceptance to a

particular CSU campus or major. Students who plan to transfer to any other college or university should consult that institution's catalog for specific transfer requirements.

Learning Outcomes

Upon completion of this program, students will be able to:

- Demonstrate computational and conceptual proficiency in differential and integral calculus, both single and multi-variable.
- Recognize and construct valid mathematical arguments.
- Use appropriate concepts and techniques from calculus and post-calculus mathematics to solve applied problems.
- Understand and apply rules of formal systems.

Students who wish to earn the Associate in Science in Mathematics for Transfer (AS-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below.

Each course in the major must be completed with a grade of "C" or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

Assuming students start this AS-T with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AS-T in Mathematics

Course	Units
Required courses:	
MATH 110A Calculus I	5.0
MATH 110B Calculus II	5.0
MATH 110C Calculus III	5.0
Choose one of the following options:	
OPTION 1:	
MATH 120 Linear Algebra	3.0
MATH 125 Differential Equations	3.0
OPTION 2:	
Choose one of the following advanced math courses:	
MATH 120 Linear Algebra	3.0
MATH 125 Differential Equations	3.0
Choose one course or course combination from the following:	
MATH 80 Probability and Statistics	5.0
MATH 115 Discrete Mathematics	3.0
CS 110A Intro to Programming	4.0
PHYC 4A Classical Mechanics for Scientists and Engineers	3.0
and PHYC 4AL Mechanics Laboratory for Scientists and Engineers	1.0
OPTION 3:	
MATH 130 Linear Algebra and Differential Equations	5.0
Choose one course or course combination from the following:	
MATH 115 Discrete Mathematics	3.0
CS 110A Intro to Programming	4.0
PHYC 4A Classical Mechanics for Scientists and Engineers	3.0
and PHYC 4AL Mechanics Laboratory for Scientists and Engineers	1.0
Total:	**21.0 – 24.0**

Data Science Major (AS)

The Associate of Science in Data Science degree is designed to provide students with sufficient understanding of concepts in the fields of Mathematics, Data Science, and Computer Science to succeed in upper division coursework in Data Science at a four-year college or university.

The field of Data Science is one with a multitude of employment opportunities. Completing this degree will aid students in developing a wide variety of skills that are valuable in collaborative Data Science work environments. Students who complete this degree stand to improve their employment prospects in the field of Data Science, but also in many applied fields, such as Biology, Sociology, or Finance.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply analytical concepts and techniques from statistics, probability, calculus, and linear algebra to problems in the field of Data Science.
- Create computer programs that use common data structures.
- Analyze data and communicate the analysis using industry-standard applications.
- Integrate analytical and computational techniques using data from a domain of interest.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Data Science

Course	Units
Required	
MATH 110A Calculus I	5.0
MATH 110B Calculus II	5.0
MATH 120 Linear Algebra	3.0
Choose one of the following	
MATH 108 Foundations of Data Science*	5.0
ECON 5 Introductory Statistics for Economics, Business and Social Sciences **	5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
MATH 80 Probability and Statistics	5.0
PSYC 5 Statistics for Behavioral Sciences	5.0

* Students are strongly advised to meet with a counselor when planning their course work, as Statistics course options might impact transferability, especially to the UC system.

** Students who take ECON 5, LALS 5, MATH 80, or PSYC 5 should also take CS 10 if they do not have prior computer programming experience. Be advised that this will not be accepted in place of DATA 8 at UC Berkeley.

Choose one of the following	
CS 110B Programming Fundamentals: C++	4.0
CS 111B Programming Fundamentals: Java	4.0
Choose one of the following	
CS 110C Data Structures and Algorithms: C++	4.0
CS 111C Data Structures and Algorithms: Java	4.0

Choose one of the following

ASTR 16 Observational Astronomy* 1.0
BIO 112 Introduction to Human Physiology 4.0
CHEM 101B General College Chemistry 5.0
CS 131B Programming Fundamentals: Python 4.0
CS 150A Introduction to SQL Databases and NoSQL . . . 3.0
CS 256 Data Visualization 3.0
ENVS 31 Introduction to Environmental Science. 3.0
FIN 110 Principles of Risk Management. 3.0
FIN 136M Personal Financial Planning Math Emphasis . . 3.0
FIN 138 Principles of Investment 3.0
GEOG 110 Introduction to GIS 3.0
MATH 115 Discrete Mathematics 3.0
PSYC 2 Research Methods 3.0
SOC 21 Introduction to Research Methods 3.0

* ASTR 16 is a lab course. Students who choose this course will be required to take ASTR 1, 17, 18, or 19 in addition to taking ASTR 16.

Recommended

CMST 20 Interpersonal Communication 3.0

Total: . . . . . 27.0 – 31.0

Announcement of Courses

For "Business Mathematics" see "Business".

CCSF Math assessment and placement is required prior to enrollment in Math courses. For more information, please see "Steps to Become a CCSF Student in Credit Courses" in the "Admission to the College" section of this Catalog or consult with a mathematics advisor or counselor before enrolling in a mathematics course.

To enroll in a particular mathematics course, a student must have satisfied the prerequisites for that course.

Credit, Non-Degree Applicable Courses:

MATH 80S. Support for Probability and Statistics (2)
Lec-35 P/NP only
Coreq: MATH 80
Support for students who are concurrently enrolled in MATH 80, Probability and Statistics. Topics include concepts and skills from arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics that are needed to understand the basics of college-level statistics. Concepts are taught in the context of the linked Math 80 course.

MATH 90S. Support for Precalculus Algebra (3)
Lec-52.5 P/NP only
Coreq: MATH 90
Support for students who are concurrently enrolled in MATH 90, Precalculus Algebra. Topics include concepts and skills from elementary and intermediate algebra that are needed to understand the basics of precalculus algebra. Concepts are taught in the context of the linked Math 90 course.

Credit, Degree Applicable Courses:

MATH 46. Elementary and Intermediate Algebra (7.5)
Lec-131.25
Prereq: MATH 30 or MATH 35
Accelerated treatment of both elementary and intermediate algebra topics. Polynomials and rational expressions; solving linear, quadratic, and rational equations; linear inequalities; systems of linear equations; graphing lines, parabolas, and circles; radicals and rational exponents; complex numbers; introduction to functions; introduction to exponential functions and logarithms; applications; problem solving skills.

MATH 60. Intermediate Algebra (5)
Lec-87.5
Prereq: Elementary algebra or higher
Polynomials and rational expressions; solving linear, quadratic, and rational equations; linear inequalities; systems of linear equations; graphing lines, parabolas, and circles; radicals and rational exponents; complex numbers; introduction to functions; introduction to exponential functions and logarithms; applications; problem solving skills.

MATH 70. Liberal Arts Math (3)
Lec-52.5
Prereq: Intermediate algebra or higher
Survey of mathematics for students with nontechnical goals. Topics include problem solving, set theory, logic, number theory, modeling with functions, geometry, finance, combinatorics, probability, and the role of mathematics in modern society. This course is designed to enhance student appreciation of both the beauty and utility of mathematics. UC/CSU

MATH 75. Mathematical Analysis for Business (3)
Lec-52.5
Prereq: Intermediate algebra or higher
Linear, quadratic, algebraic, exponential, and logarithmic functions, interest and ordinary annuity problems; introduction to differential and integral calculus of one variable with applications to business and economics. UC/CSU

MATH 80. Probability and Statistics (5)
Lec-87.5
Prereq: Intermediate algebra or higher
Recommended Prep: Readiness for college-level English or ESL 188
Descriptive statistics: organization of data, sample surveys, experiments and observational studies, measures of central tendency and dispersion, correlation, regression lines, and analysis of variance (ANOVA). Probability theory. Random variables: expected value, variance, independence, probability distributions, normal approximation. Sampling: sampling distributions, and statistical inference, estimating population parameters, interval estimation, standard tests of hypotheses. UC/CSU
C-ID MATH 110

MATH 90. Precalculus Algebra (5)
Lec-87.5
Prereq: Intermediate algebra or higher
Real functions and their graphs; one-to-one and inverse functions; polynomial, rational, exponential and logarithmic functions; complex numbers and zeros of polynomials; linear systems and matrices; geometric transformations and conic sections; topics in discrete mathematics. UC/CSU
Not recommended for students who have passed MATH 92.

MATH 92. College Algebra (5)
Lec-87.5
Prereq: Intermediate algebra or higher
Polynomial and rational expressions; radicals and rational exponents; equations and inequalities; real functions and their graphs; one-to-one and inverse functions; exponential and logarithmic functions; complex numbers and zeros of polynomials; linear systems and matrices; geometric transformations and conic sections; topics in discrete mathematics; applications. CSU
Offered on occasion

MATH 95. Trigonometry (3)
Lec-52.5
Prereq: Intermediate algebra or higher
Recommended Prep: Completion of or concurrent enrollment in: MATH 90
Trigonometric functions and their graphs; trigonometric identities and equations; inverse trigonometric functions; solving triangles; complex numbers. CSU

MATH 98. Precalculus & Trigonometry (7)
Lec-122.5
Prereq: Intermediate algebra or higher
Complete both precalculus algebra and trigonometry by taking this single class.? Topics covered include real functions and their graphs; one-to-one and inverse functions; algebraic, exponential and logarithmic, and trigonometric functions; complex numbers and zeros of polynomials; matrices; transformations and conic sections; discrete mathematics; polar coordinates; and applications of trigonometric identities. UC/CSU

MATH 100A. Short Calculus I (3)
Lec-52.5
Prereq: MATH 90 or MATH 92 or placement in MATH 100A or MATH 110A
MATH 100A is the first course in a two-semester sequence in applied calculus. Lines, algebraic functions, exponential functions, logarithmic functions, limits, derivatives, and integrals, with applications. UC/CSU
The calculus sequence of MATH 100A +100B is intended for students majoring in Business, Technology, Social Sciences, or Life Sciences.
Offered Fall semesters

MATH 100B. Short Calculus II (3)
Lec-52.5
Prereq: MATH 100A
Math 100B is the second course in a two-semester sequence in applied calculus. Techniques of integration, periodic functions, Taylor polynomials, multi-variable calculus, and differential equations, with applications to business, economics, and science. UC/CSU
The calculus sequence of MATH 100A+100B is intended for students majoring in business, technology, social sciences, or life sciences.
Offered Spring semesters

MATH 108. Foundations of Data Science (5)
Lec-87.5 P/NP available
Prereq: Intermediate algebra or higher
Recommended Prep: Readiness for college-level English or ESL 188
Foundations of Data Science combines an introductory look into the fundamental skills and concepts of computer programming and inferential statistics with hands-on experience in analyzing datasets by using common tools within the industry. Additionally, the course investigates ethical issues surrounding Data Science, such as data privacy. UC/CSU

MATH 110A. Calculus I (5)
Lec-87.5
Prereq: (MATH 90 and MATH 95) or (MATH 92 and MATH 95) or MATH 98 or placement in MATH 110A
First course in a three-semester calculus sequence, this course covers differential calculus through the study of limits, continuity, differentiation, applications of differentiation, and an introduction to integration. UC/CSU
C-ID MATH 210; C-ID MATH 900S (MATH 110A + MATH 110B)

MATH 110B. Calculus II (5)
Lec-87.5
Prereq: MATH 110A or placement in MATH 110B
A second course in single-variable calculus. Applications of integration, techniques of integration, numerical integration, indeterminate forms, improper integrals, parametrized curves, polar coordinates, infinite sequences and series, and power series. UC/CSU
C-ID MATH 220; C-ID MATH 900S (MATH 110A + MATH 110B)

MATH 110C. Calculus III (5)
Lec-87.5
Prereq: MATH 110B
Advanced calculus course focusing on vectors, curves and surfaces in 3-dimensional space, differentiation and integration of multivariate functions, line and surface integrals, and, in particular, the theorems of Green, Stokes, and Gauss. UC/CSU
C-ID MATH 230

MATH 115. Discrete Mathematics (3)
Lec-52.5
Prereq: MATH 100A or MATH 110A
Recommended Prep: CS 110B or CS 111B
Set theory, logic, proof techniques, mathematical induction, relations and functions, recursion, combinatorics, elementary number theory, trees and graphs, analysis of algorithms. Emphasis on topics of relevance to mathematics and computer science majors. UC/CSU
C-ID COMP 152; C-ID MATH 160

MATH 120. Linear Algebra (3)
Lec-52.5
Prereq: Completion of or concurrent enrollment in: MATH 110C
Real vector spaces, subspaces, linear dependence and span, matrix algebra and determinants, basis and dimension, inner product spaces, linear transformations, eigenvalues and eigenvectors, proofs of basic results. UC/CSU
C-ID MATH 250
Offered Fall semesters

MATH 125. Differential Equations (3)
Lec-52.5
Prereq: MATH 110C
Ordinary differential equations and first order linear systems of differential equations; methods of explicit solution; qualitative methods for the behavior of solutions; theoretical results for the linear structure, existence, and uniqueness of solutions. UC/CSU
C-ID MATH 240
Offered Spring semesters

MATH 130. Linear Algebra and Differential Equations (5)
Lec-87.5
Prereq: MATH 110C
Real vector spaces, subspaces, linear dependence, span, matrix algebra, determinants, basis, dimension, inner product spaces, linear transformations, eigenvalues, eigenvectors, and proofs. Ordinary differential equations and first-order linear systems of differential equations; explicit solutions; qualitative analysis of solution behavior; linear structure, existence, and uniqueness of solutions. Partial differential equations. UC/CSU

Military Science

The University of San Francisco is part of the Consortium of San Francisco Colleges and Universities. Students attending a member of the consortium may enroll in a Military Science course at the University of San Francisco under that agreement at no cost. Full credit will be given by City College of San Francisco to fully enrolled students. Specific inquiries about this program should be directed to the Professor of Military Science, University of San Francisco.

Air Force ROTC is offered through the Aerospace Studies department at U.C. Berkeley. Scholarships (including tuition, book allowance, and stipend) are available for qualified students. Students may enroll and attend one course per semester at the U.C. Berkeley campus at no cost. Topics covered in AFROTC courses include Basic Military knowledge (1-credit), Military History (1-credit), Leadership Training (3-credits), and U.S. National Security Affairs and Preparation for Active Duty (3-credits). Additional components of the ROTC program include 3 hours per week of fitness activities, 2 hours per week of Leadership Lab, and a 4-week Summer Field Training. Upon completion of the program and granting of 4-year degree, students will commission as Second Lieutenants in the United States Air Force. To be eligible for AFROTC, applicants should be a full time student and meet additional fitness, GPA, testing, and other requirements. Interested students, please visit the department website: ***http://airforcerotc.berkeley.edu***, call (510) 642-3572, or e-mail ***airforce@berkeley.edu***.

Music

Office: Art 209
Phone Number: (415) 239-3641
Web Site: *www.ccsf.edu/music*

Announcement of Curricula

Computers and Music Certificate

The Computers and Music certificate provides students with the foundation for developing standalone music software as well as composing and performing music using computer-coding languages. Students learn how to analyze and meet the needs of users of creative and musical software. Students who complete this certificate are prepared for entry-level work in software development for creative users.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe and analyze the processes involved in creating a piece of music using a computer.
- Discuss and evaluate the needs of music software users.
- Collaborate and produce effective electronic music software for performance or recording that meets the needs of users, including their own.
- Apply the technical and fundamental skills necessary for effective use of contemporary computer music tools in working projects.
- Implement software in a team environment.
- Display professionalism and effective application of music technology workforce expectations in communication and behavior.

The minimum time for completion of this certificate is two (2) semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Computers and Music

Course	Units
Required Courses	
MUS 100 Music Fundamentals	3.0
MUS 128 Survey of Contemporary and Electronic Music	3.0
MUS 29 Electronic Music I	3.0
MUS 30 Electronic Music II	3.0
CS 177 Software Engineering	3.0
CS 110A Intro to Programming	4.0
Total:	**19.0**

Music Certificate

The Certificate of Achievement in Music provides the technical and artistic foundations for students pursuing careers in music and music-related fields. It fulfills the lower division core requirements for music majors at four-year institutions, and prepares students for transfer. Through courses in theory, musicianship, and individual and ensemble performance, as well as surveys of music, students acquire a broad foundation in theory and analysis, performance, as well as the critical thinking skills to evaluate the aesthetics of music within social, cultural, historical, and political contexts. The wide variety of electives provides students with opportunities to focus on their individual areas of of interest or specialization.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and compose harmonic progressions using appropriate rules.
- Sight-sing and dictate music through aural and visual analyses.
- Perform effectively in ensembles.
- Evaluate and contextualize music historically and culturally.
- Perform solo vocal or instrumental music at undergraduate-level proficiency.

Program advisory. MUS 100, Music Fundamentals. Students are expected to read both the treble and bass clefs and have a thorough knowledge of scales, key signatures, and intervals. Those whose skills are rusty are strongly urged to take MUS 100 prior to enrolling in either MUS 1A or MUS 3A.

For MUS 1A, 1B, 3A, and 3B, students may have the option to test out and take a substitute course, choose credit by exam, or satisfy the requirement with equivalent coursework from another institution. A minimum of fifteen (15) units must be completed at CCSF for this certificate.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Music

Course	Units
Required	
MUS 1A Beginning Musicianship	3.0
MUS 1B Intermediate Musicianship	3.0
MUS 3A Diatonic Harmony	3.0

MUS 3B Chromatic Harmony 3.0
MUS 9A Beginning Piano 3.0
or MUS 9B Intermediate Piano 3.0

Students who test out of MUS 9A may take MUS 9B instead.

Students who test out of MUS 9B may choose one of the electives listed in this certificate instead.

Students must take a total of 12 elective units not already used in the core section. At least 3 units must be selected from each of the three areas below.

Ensembles:

MUS 11 Guitar Workshop 3.0
MUS 12 Choir 3.0
MUS 13A Jazz/Rock Improvisation Workshop 3.0
MUS 13B Jazz Arranging & Composition 3.0
MUS 15 Orchestra 3.0
MUS 17 Woodwind Ensemble 3.0
MUS 18 Brass Ensemble 3.0
MUS 20 String Ensemble 3.0
MUS 46 Stage Band 3.0

Vocal, Instrumental, and Composition Instruction:

MUS 5A Introduction to Composition 3.0
MUS 6A Beginning Classical Guitar 3.0
MUS 7P1 Beginning Percussion 3.0
MUS 7V1 Beginning Violin 3.0
MUS 7W1 Beginning Woodwind 3.0
MUS 8A Beginning Jazz & Other Popular Piano 3.0
MUS 9B Intermediate Piano 3.0
MUS 9C Keyboard Harmony 3.0
MUS 10A Beginning Voice 3.0

Survey:

MUS 21 Traditional African Music 3.0
MUS 22A History of Music in Western Culture: Medieval and Renaissance Music 3.0
MUS 22B History of Music in Western Culture: Baroque and Classical Music 3.0
MUS 22C History of Music in Western Culture: Romanticism 3.0
MUS 23 History of Jazz: Musical Traditions of the African-American 3.0
MUS 24 Music of East Asia 3.0
MUS 25 Music of Latin America and the Caribbean 3.0
MUS 26 Music in American Culture 3.0
MUS 27A Music Appreciation 3.0
MUS 27B Survey of Opera and Musical Theater 3.0
MUS 27Q Music and Queer Identity 3.0
MUS 27R The History of Rock and Popular Music 3.0
MUS 29 Electronic Music I 3.0
MUS 30 Electronic Music II 3.0
MUS 128 Survey of Contemporary and Electronic Music 3.0

Total: 27.0

Music and Technology Certificate

The Music Technology certificate provides students with the foundation for composing and performing music using a range of technology such as music software, computer coding, analog synthesizers, as well as a variety of creative approaches. Students learn how to incorporate traditional and contemporary electronic music techniques into their own work as well as analyze the way that other artists utilize these techniques for concert performances and other mediums. Students who complete this certificate are prepared for entry-level work in electronic music facilities, musical performance spaces, and other music technician-related fields.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the processes involved in composing a piece of electronic music.
- Describe the work of electronic musicians on a creative, technical level.
- Create effective, playable electronic music projects for performance or recording
- Apply the technical and fundamental skills necessary for effective use of contemporary electronic music tools
- Display professionalism and effective application of workforce protocol, communication skills, and behavior in the music technology environment

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Music and Technology

Course . . . . . Units

Required

MUS 100 Music Fundamentals 3.0
MUS 29 Electronic Music I 3.0
MUS 30 Electronic Music II 3.0
BCST 119 Digital Media Skills 3.0
BCST 120 Audio Production 3.0
MUS 128 Survey of Contemporary and Electronic Music 3.0

Total: 18.0

Announcement of Courses

All music students are encouraged to enroll in at least one of the Music Department performing groups each semester. Knowledge of music fundamentals and the ability to read music are recommended for many music theory, instrumental and vocal training, and performance courses. Where a music course has a sequential prerequisite, check with the Department Chair for skill demonstration equal to the prerequisite.

Credit, Degree Applicable Courses:

Music Theory

The MUS 1A-1B, 3A-3B series is a two-semester ear-training and harmony program for music students which will transfer as fulfillment of one year of lower-division music theory requirements.

MUS 1A. Beginning Musicianship (3)
Lec-52.5 P/NP available
Recommended Prep: MUS 4
Development of beginning skills in rhythmic and melodic dictation and sight-singing of diatonic music through the use of solfège in scales, intervals, triads, and seventh chords. The course teaches aural and analytical skills necessary for all musicians and fulfills the first semester Musicianship requirement for music majors and minors. UC/CSU *C-ID MUS 125*

MUS 1B. Intermediate Musicianship (3)
Lec-52.5 P/NP available
Prereq: MUS 1A
Development of intermediate skills in rhythmic, melodic, harmonic dictation and sight-singing, through the visual and aural analysis of functional and non-functional chromaticism, including altered chords and modulations. It teaches aural and visual analytical skills necessary for all musicians and fulfills the second semester Musicianship requirement for music majors and minors. UC/CSU

MUS 3A. Diatonic Harmony (3)
Lec-52.5 P/NP available
Recommended Prep: MUS 100
Intensive study of common-practice diatonic harmony through the writing of four-part chorale harmonizations, figured bass realizations, and linear and vertical analyses primarily of 18th-century music. Fosters a technical understanding of the compositional process, greater facility in learning new music, and a deeper comprehension of music in general. UC/CSU
C-ID MUS 120

MUS 3B. Chromatic Harmony (3)
Lec-52.5 P/NP available
Prereq: MUS 3A, or demonstration of exit skills
Intensive study of chromatic harmony including both functional and non-functional chromaticism and modulations through the writing of chorale harmonizations, figured bass realizations, and linear and vertical analyses primarily of 19th-century Western European music. Fosters a technical understanding of the compositional process and a greater facility in learning music involving chromaticism. UC/CSU
C-ID MUS 130

MUS 5A. Introduction to Composition (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MUS 4
Introduction to the study of the principles of musical composition through analysis and creative writing. Pieces may be composed for piano and/or small instrumental and/or vocal ensembles. UC/CSU
Offered Spring semesters

MUS 5B. Music Composition (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 5A or demonstration of exit skills
Recommended Prep: MUS 3A or MUS 8A or MUS 9C or demonstration of exit skills
Intermediate study of the principles of musical composition through analysis and creative writing. Pieces may be composed for piano and/or small instrumental and/or vocal ensembles. UC/CSU
Offered Spring semesters

MUS 100. Music Fundamentals (3)
Lec-52.5, field trips P/NP available
An introduction to music notation and theory, including staff notation, rhythmic notation, intervals, scales, chord construction, sight reading, and ear training. UC/CSU
Formerly MUS 4

Enrollment Limitations on Physical Education and Visual or Performing Arts Courses

Per title 5 Section 55041, effective Fall 2013, students may not enroll more than four times in "active participatory courses that are related in content" in the areas of physical education or visual and performing arts, which includes art, dance, music, and theatre. This limitation applies even if a student receives a substandard grade or "W" during one or more of the enrollments in such a course or if the students petition for repetition due to extenuating circumstances.

Music courses that are related in content are grouped together in "families" of courses below. The families are indicated by their headings, e.g., Applied Training: Guitar, Ensemble: Chorale, etc. For the most up-to-date listing of courses and families, refer to the online catalog, ***www.ccsf.edu/catalog****.*

Instrumental and Vocal Training

Applied Training: Guitar

MUS 6A. Beginning Classical Guitar (3)
Lec-52.5, field trips P/NP available
This course is an introduction to the guitar, and individualized study of the appropriate techniques and repertoire to master a beginning level of music on the instrument. The emphasis is on the development of beginning skills needed for solo performance. Audition for placement within the class. UC/CSU
No prior experience with the guitar necessary. The student must provide a guitar.

MUS 6B. Advanced Beginning Classical Guitar (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 6A or demonstration of exit skills
Individualized study of classical guitar theory, technique and repertoire at the advanced beginning level. The emphasis is on the advanced beginning skills needed for solo performance. UC/CSU

MUS 6C. Intermediate Classical Guitar (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 6B or demonstration of exit skills
Individualized study of classical guitar theory, technique and repertoire at the intermediate level. The emphasis is on the development of intermediate skills needed for solo performance. UC/CSU

MUS 6D. Advanced Intermediate Classical Guitar (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 6C or demonstration of exit skills
Individualized study of classical guitar theory, technique and repertoire at the advanced intermediate level. The emphasis is on the development of skills needed for solo performance. UC/CSU

Music 7 Series

(The letter after the 7 indicates the instrument, not the sequence.)
The Music Department recommends that students enrolling in any of the courses in the MUS 7 series enroll concurrently in appropriate music performance courses such as concert band (MUS 16), stage band (MUS 46), pep band (MUS 47), orchestra (MUS 15), string ensemble (MUS 20), brass ensemble (MUS 18), or woodwind ensemble (MUS 17).

Applied Training: Percussion

MUS 7P1. Beginning Percussion (3)
Lec-52.5 P/NP available
A practical introduction to percussion performance, students learn to play the instruments in the four families of percussion: Orchestral, Auxiliary, Latin, and Modern. UC/CSU
Formerly MUS 7P

MUS 7P2. Advanced Beginning Percussion (3)
Lec-52.5 P/NP available
Prereq: MUS 7P1 or demonstration of exit skills
A practical introduction to Advanced Beginning Percussion and performance, where students learn to play the instruments in the four families of percussion: Orchestral, Auxiliary, Latin, and Modern. UC/CSU

MUS 7P3. Intermediate Percussion (3)
Lec-52.5 P/NP available
Prereq: MUS 7P2 or demonstration of exit skills
A practical introduction to percussion, performance, students learn to play the instruments in the five families of percussion: Orchestral, Auxiliary, Latin, Modern, and World. UC/CSU

MUS 7P4. Advanced Intermediate Percussion (3)
Lec-52.5 P/NP available
Prereq: MUS 7P3 or demonstration of exit skills
A practical introduction to percussion, performance, students learn to play the instruments in the four families of percussion: Orchestral, Auxiliary, Latin, World,and Modern. UC/CSU

Applied Training: Violin/Viola

MUS 7V1. Beginning Violin (3)
Lec-52.5, field trips P/NP available
This course is an introduction to the violin, and individualized study of the appropriate techniques and repertoire to master a beginning level of music on the instrument. The emphasis on the development of beginning skills needed for solo performance. Audition for placement within the class. UC/CSU

MUS 7V2. Advanced Beginning Violin (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 7V1 or demonstration of MUS 7V1 exit skills
This course is a continuation of the study of violin, and individualized study of the appropriate techniques and repertoire to master an advanced beginning level of music on the instrument. The emphasis is on the development of advanced beginning skills needed for solo violin performance. UC/CSU

MUS 7V3. Intermediate Violin (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 7V2 or demonstration of MUS 7V2 exit skills
This course is a continuation of the study of violin, and individualized study of the appropriate techniques and repertoire to master an intermediate level of music on the instrument. The emphasis is on the development of intermediate skills needed for solo violin performance. UC/CSU

MUS 7V4. Advanced Intermediate Violin (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 7V3 or demonstration of MUS 7V3 exit skills
Individualized study of violin theory, technique and repertoire at the advanced intermediate level. The emphasis is on the development of skills needed for solo performance. UC/CSU

Applied Training: Woodwinds

MUS 7W1. Beginning Woodwind (3)
Lec-52.5, field trips P/NP available
This course is an introduction to a specific woodwind instrument, and individualized study of appropriate techniques and repertoire for that instrument. The emphasis is on the progressive development of skills needed for solo performance. UC/CSU

MUS 7W2. Advanced Beginning Woodwind (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 7W1 or demonstration of MUS 7W1 exit skills
Individualized study of theory, technique and repertoire on the woodwinds: flute, saxophone, clarinet at the advanced beginning level. The emphasis is on the advanced beginning skills needed for solo performance. UC/CSU

MUS 7W3. Intermediate Woodwind (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 7W2 or demonstration of MUS 7W2 exit skills
Individualized study of woodwind theory, technique and repertoire at the intermediate level. The emphasis is on the development of intermediate skills needed for solo performance. UC/CSU

MUS 7W4. Advanced Intermediate Woodwind (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 7W3 or demonstration of MUS 7W3 exit skills
Individualized study of woodwind theory, technique and repertoire at the advanced intermediate level. The emphasis is on the progressive development of skills needed for solo performance. UC/CSU

Applied Training: Jazz Piano

MUS 8A. Beginning Jazz & Other Popular Piano (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MUS 9A or demonstration of exit skills
Beginning study and exploration of jazz piano technique in myriad forms through the application of jazz theory, blues, Afro-Cuban, Brazilian and other popular styles. UC/CSU

MUS 8B. Intermediate Jazz & Other Popular Piano (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 8A
An intermediate study of basic jazz, blues, Afro-Cuban, Brazilian and other popular piano techniques. UC/CSU

Applied Training: Piano

MUS 9A. Beginning Piano (3)
Lec-52.5, field trips P/NP available
Piano studies for beginners including sight reading, elementary theory, beginning ear training, and a historical view of keyboard instruments and their music. UC/CSU
C-ID MUS 170

MUS 9B. Intermediate Piano (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MUS 9A or demonstration of exit skills
Piano studies for the intermediate pianist including playing through reading, elementary theory, beginning ear training, and a historical view of keyboard instruments and their music. UC/CSU
C-ID MUS 171

MUS 9C. Keyboard Harmony (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MUS 9A
The development of harmonic keyboard skills through the study and practice of chord structures, progressions, and sight reading techniques. UC/CSU
Offered Spring semesters

Applied Training: Voice

Music 10 Series
The Music Department recommends that students enrolling in the MUS 10 series should enroll concurrently in a choral-performing group (MUS 12 or 14).

MUS 10A. Beginning Voice (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MUS 4 or demonstration of exit skills
Introduction to study of appropriate basic techniques and repertoire for beginning voice. Includes alignment, tone production, breathing, and musical skills in performing vocal music of various periods and styles. UC/CSU

MUS 10B. Advanced Beginning Voice (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 10A or demonstration of exit skills
Study of appropriate techniques and repertoire for advanced beginning voice. Includes alignment, tone production, breathing and musical skills in performing vocal music of various periods and styles. UC/CSU

MUS 10C. Intermediate Voice (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 10B or demonstration of exit skills
Study of appropriate techniques and repertory for intermediate voice. Includes alignment, tone production, breathing and musical skills used to interpret vocal music of various periods and styles. UC/CSU

MUS 10D. Advanced Intermediate Voice (3)
Lec-52.5, field trips P/NP available
Prereq: MUS 10C or demonstration of exit skills
Study of appropriate techniques and repertoire for advanced intermediate voice. Includes alignment, tone production, breathing and musical skills in performing vocal music of various periods and styles. UC/CSU

Performance Courses

Ensemble: Guitar

MUS 11. Guitar Workshop (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MUS 6A or demonstration of exit skills
Repeat: Students can repeat three times (total 4 enrollments)
Develop the technique, musicality, note reading ability and theoretical knowledge to perform ensemble music for guitar. Ensembles include duos, trios, quartets, or larger ensembles. UC/CSU

Ensemble: Large Traditional Choirs

MUS 12. Choir (3)
Lec-52.5, field trips P/NP available
Repeat: Students can repeat three times (total 4 enrollments)
The study, rehearsal, and performance of choral literature appropriate for large vocal ensembles, with an emphasis on skills development for performing with an ensemble. Highly recommended for intended music majors, both instrumental and vocal. UC/CSU

Ensemble: Jazz/Rock

MUS 13A. Jazz/Rock Improvisation Workshop (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Prior instrumental experience
Repeat: Students can repeat three times (total 4 enrollments)
Study of a variety of jazz, rock, and blues genres for all instruments. Emphasis on application of basic techniques of improvisation. Students learn to play lead (melodic improvisation) in an ensemble. Culmination is a concert demonstrating repertoire and techniques learned. UC/CSU

MUS 13B. Jazz Arranging & Composition (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MUS 3A or MUS 8B
Study of a variety of jazz styles with an emphasis on learning the techniques of jazz arranging and composing. UC/CSU

Ensemble: Chorale

MUS 14. Chorale (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MUS 12 or prior choir experience
Repeat: Students can repeat three times (total 4 enrollments)
The study, rehearsal, and performance of choral literature appropriate for small vocal ensembles, with an emphasis on skills development for performing with an ensemble. Highly recommended for intended music majors, both instrumental and vocal. UC/CSU

Ensemble: Large Traditional Instrumental

MUS 15. Orchestra (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Prior instrumental experience
Repeat: Students can repeat three times (total 4 enrollments)
An opportunity for string, woodwind, brass and percussion players to rehearse and perform works selected from the standard repertory from the Baroque era through the present. UC/CSU

MUS 16. Concert Band (3)
Lec-52.5, field trips P/NP available
Repeat: Students can repeat three times (total 4 enrollments)
Performance of classical and marching band music for intermediate to advanced brass and woodwind students. The class will present a live concert at the conclusion of the semester. UC/CSU
Offered Spring semesters

Ensemble: Woodwind

MUS 17. Woodwind Ensemble (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Prior instrumental experience
Repeat: Students can repeat three times (total 4 enrollments)
Intermediate to advanced woodwind students perform music in the classical and jazz idioms. The class will present a live concert at the conclusion of the semester. UC/CSU

Ensemble: Brass

MUS 18. Brass Ensemble (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Prior instrumental experience
Repeat: Students can repeat three times (total 4 enrollments)
Preparation and performance of brass ensemble music of selected styles and historical periods from Baroque to the present day. Course culminates in a public concert. UC/CSU

Ensemble: Piano

MUS 19. Piano Ensemble and Repertoire (3)
Lec-52.5, field trips P/NP available
Recommended Prep: MUS 9B or demonstration of exit skills
Repeat: Students can repeat three times (total 4 enrollments)
Performance of four-hand, two-piano, and accompaniment literature from all stylistic periods. Study of ensemble skills and use of these whenever possible in performances. Monthly public recitals. UC/CSU

Ensemble: Strings

MUS 20. String Ensemble (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Prior instrumental experience
Repeat: Students can repeat three times (total 4 enrollments)
An exploration of techniques and ensemble literature appropriate for intermediate and advanced violinists, violists, cellists and string bassists. Concerts scheduled during the semester. UC/CSU

Music Surveys

MUS 21. Traditional African Music (3)
Lec-52.5, field trips P/NP available
An introduction to the many styles of African music with emphasis on the function of traditional music and how it is organized as an integral part of everyday activity. UC/CSU

MUS 22A. History of Music in Western Culture: Medieval and Renaissance Music (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A survey of musical styles from the 10th century to the early 16th century. The course focuses on evolution of musical styles and the changing social, cultural, economic, and political conditions that gave rise to those styles. UC/CSU
Offered on occasion

MUS 22B. History of Music in Western Culture: Baroque and Classical Music (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A survey of musical styles and their social contexts in the 17th and 18th centuries. Topics include the decline of church music, the rise of public concerts and opera, the evolution of the orchestra, symphonies, concertos, suites, and the development of musical instruments. UC/CSU
Offered on occasion

MUS 22C. History of Music in Western Culture: Romanticism (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A survey of Western art music and literature of the Romantic era (1800 to 1900) and the composers and the cultural and political forces that played a role in the creation of the musical works of that era. Topics include sonatas, chamber music, opera, tone poems, and symphonies. UC/CSU
Offered on occasion

MUS 23. History of Jazz: Musical Traditions of the African-American (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A course composed of lectures, discussions, assigned reading and listening designed to explore African-American musical heritage and its relationship to other folk expressions and to Western European Art Music. This heritage includes spirituals, work songs, blues, jazz, gospel and a broad range of popular music. UC/CSU

MUS 24. Music of East Asia (3)
Lec-52.5, field trips P/NP available
A cross-cultural, comparative survey of both historical and recent developments in the music of China, Japan, and Korea, including the relationship of East Asian music to other aspects of East Asian cultures-philosophy, religion, theater, and dance. UC/CSU

MUS 25. Music of Latin America and the Caribbean (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introductory survey of the musical traditions of Latin America, the Caribbean and Latin music in the United States. This course will study music as a form of communication, and as a social and cultural force in the Americas. UC/CSU

MUS 26. Music in American Culture (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A survey of the music of America's diverse populations such as Native American, Anglo-American, African American, Cajun, Creole, Hawaiian and other styles and genres such as country, Tex-Mex, Klezmer and polka. UC/CSU

MUS 27A. Music Appreciation (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of Western art music from the Middle Ages to the present, examined within cultural, social, and political contexts. Topics include musical elements, forms, and stylistic features of each historical period, as well as the individual characteristics of its representative composers. UC/CSU
C-ID MUS 100

MUS 27B. Survey of Opera and Musical Theater (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Detailed study of opera and musical theater within historical, cultural, political, and social contexts. During the fall semester, the course will focus on upcoming operas performed by the San Francisco Opera. UC/CSU
MUS 27A is not a prerequisite for MUS 27B.
Offered Fall semesters

MUS 27Q. Music and Queer Identity (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Completion of or concurrent enrollment in: ENGL 88 or ESL 184
An examination of how music encodes "queerness" by focusing on significant musical styles and performers in the LGBT community. UC/CSU
Formerly MUS 27C

MUS 27R. The History of Rock and Popular Music (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A survey of the origin, trends, styles and genres of rock and popular music from the early 20th century to the present day, focusing on

historical and cultural influences and the effects of technology on popular music. UC/CSU
Offered on occasion

MUS 28. 20th Century Music (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
The study of the music of the twentieth century through analysis of its composers and styles as well as graphic scores, electronic music recordings and development of new technologies. UC/CSU
Offered on occasion

MUS 29. Electronic Music I (3)
Lec-52.5, field trips P/NP available
A practical study of the historical and technical aspects of electronic music, including compositional techniques of hardware and software synthesis, sampling, MIDI sequencing, audio processing, and multitrack audio recording. UC/CSU
C-ID CMUS 100X

MUS 30. Electronic Music II (3)
Lec-52.5 P/NP available
Prereq: MUS 29.
Explores intermediate/advanced concepts in electronic music composition and performance. MUS 30 expands on the foundational electronic music techniques from MUS 29, giving students access to multiple ways of making electronic music that will stand the test of time. UC/CSU
Offered Spring semesters

MUS 128. Survey of Contemporary and Electronic Music (3)
Lec-52.5, field trips P/NP available
The study of electronic music and its 20th-century acoustic counterparts through analysis of composers, styles, techniques, recordings, and technological developments. UC/CSU

Other Music Performance Courses

MUS 41. African Drumming Ensemble (3)
Lec-52.5, field trips P/NP available
Repeat: Students can repeat three times (total 4 enrollments)
In African Drumming Ensemble students play traditional African music; the class is an in-depth examination of African drumming and performance of African music integral to everyday festivities and life in African society UC/CSU
The content of this course varies. Students may re-enroll without repeating subject matter.

MUS 42. Gospel Choir (3)
Lec-52.5, field trips P/NP available
Repeat: Students can repeat three times (total 4 enrollments)
The study of the theory, techniques and performance practices of popular, Gospel and other African American choir arrangements with piano accompaniment. UC/CSU
Offered on occasion

MUS 46. Stage Band (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Prior instrumental experience
Repeat: Students can repeat three times (total 4 enrollments)
Study, rehearsal, and public performance of music arranged for large ensembles in a variety of jazz and popular styles, with an emphasis on the skills needed to perform within an ensemble. All instruments are welcome. Different literature will be studied each semester. UC/CSU

MUS 47. Pep Band (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Prior instrumental experience
Repeat: Students can repeat three times (total 4 enrollments)
Rehearsal band for music of historical styles such as marches, polkas, and Dixieland, as well as current dance music. Learn to play in a large ensemble with rhythm section, brass, and winds. Performances at various school sports and other events. UC/CSU

Nursing, Registered

Office: Cloud 340
Phone Number: (415) 239-3218
Web Site: *www.ccsf.edu/rn*

Announcement of Curricula

Registered Nursing Major (AS)

General Information

1. Individual Nursing Courses are not open for individual enrollment.
2. Prerequisites must be completed prior to filing of enrollment application.
3. At present, qualified applicants are selected by current admission requirements and multi-criteria.
4. Readiness Assessment testing (with ATI Test for Essential Academic Skills) is to be completed by all candidates selected by current admission requirements and multi-criteria for conditional enrollment (including transfers and advanced placement) under the terms of the grant funded by the California College Chancellor's Office. Students will be required to take ATI TEAS or submit previous ATI TEAS scores (or equivalent).
5. Students who will be conditionally admitted to the R.N. Nursing program, will be required to submit to a background screening check, health+immunization report, and current Basic Life Support (BLS) for healthcare providers.

Degree Curriculum

The Associate in Science curriculum in Nursing is accredited by the California Board of Registered Nursing (BRN). Students who complete the course of study in accordance with City College requirements are eligible to take the National Council Licensure Examination of Registered Nurses (NCLEX-RN). Those who pass the NCLEX-RN are qualified for entry-level positions of R.N. in health facilities and agencies.

NOTE: The licensing process for becoming a registered nurse in California is under the jurisdiction of the Board of Registered Nursing (BRN). The BRN requires disclosure of all misdemeanor and felony convictions for all license applicants and disclosure of all disciplinary actions taken against a license applicant who already has a practical nurse, vocational nurse or other professional license. Fingerprinting is also required.

Course of Study. The Nursing course of study includes instruction in applied nursing science and related life sciences, and clinical experience in San Francisco Bay Area cooperating clinical settings. The

required course of study for Nursing includes courses that may also satisfy certain general education requirements.

Associate in Science Degree. The Nursing curriculum, supplemented by general education courses, is designed so that students may satisfy the requirements for graduation from City College of San Francisco with the degree of Associate in Science. It is required that all students who wish to enroll in the Nursing Program complete the City College of San Francisco English or ESL and Mathematics assessment if required by the college.

Learning Outcomes

Upon completion of this program, students will be able to:

- Qualify to take the National Licensure Examination for Registered Nurses (NCLEX-RN).
- Qualify for entry level positions of R.N. in health facilities and agencies
- Identify as a member of the health team in rendering holistic care to patients and provide support to patients' families
- Utilize the nursing process to formulate a plan of care and provide problem-oriented, individualized patient care
- Prioritize nursing care by application of Maslow's hierarchy of needs theory
- Apply the principles of effective communication in the delivery of health care to the patient and with other health care professionals
- Apply physical or technical skills that promote patients' health or welfare;
- Provide health education to individual patients, families, and the community at large
- Demonstrate competencies in basic health care informatics necessary to deliver safe and effective nursing care
- Exercise critical thinking skills when applying the nursing process to patient care
- Deliver effective nursing care to the patient by utilizing their acquired skills in problem solving and leadership
- Apply principles of health care ethics to guide professional conduct in the provision of care to patients, families, and community;
- Identify the cultural or ethnic influences on patients and formulate nursing care according to the patients' values
- Identify as a health advocate and participate in activities to benefit patients, families and the community at large
- Supervise and delegate patient care based on the skill level of the care provider
- Assume responsibility and accountability for one's nursing actions, self-evaluation, continuing education, and personal growth
- Utilize the principles of leadership in the health care setting, community, professional organizations, and legislative & regulatory areas
- Utilize the nursing process and evidenced based practice to facilitate optimal client outcomes for diverse cultures across the lifespan and in a variety of settings.

Enrollment to the Program. Because of facilities and staff limitations, 50 new students may be enrolled in the Nursing Program each semester. Nursing enrollment form available online or in the nursing office. Please check Filing Date. To be considered for enrollment, students must satisfy certain academic prerequisites. The following is a summary of the academic requirements for enrollment in the Nursing Program/ courses. Please see website: ***www.ccsf.edu/rn***

1. Prerequisite courses:
   a. Complete the following prerequisite courses: No in-progress courses will be considered
   Biology 108 (formerly Anatomy 25)
   Biology 111 or 112 (formerly Physiology 1 or 12)
   Biology 120 (formerly Microbiology 12)
   English 1A
   Math 40 or higher level Algebra or Statistics course
   Science courses must have been completed within the last 7 years at the time of enrollment to the Nursing program.
   b. Must have an overall GPA of 2.5 in science courses and English 1A.
2. An applicant can repeat only one of the science courses. More than one (1) repetition of any of the science courses will disqualify the applicant. Repetition of a science course is defined as repeating a course due to a previous grade of "D", "F" or "W". Students may satisfy the above course prerequisites at other institutions, but the courses and grades must be verified prior to consideration for enrollment.
3. File with the Office of Admissions and Records a completed application for admission to City College of San Francisco. No person may attend nursing classes unless he/she is properly admitted to the College.
4. English 1A and Math 40 or higher (equivalent) if taken at a College other than CCSF:

   All applicants filing enrollment forms and transcripts from other colleges or university with the pre- requisite English and Math course final grades must bring an official transcript to the City College of San Francisco Matriculation Office located in Conlan Hall Room 204, Ocean Campus for review of these courses and subsequent Waiver from taking the English and Math Placement Tests. The waiver (or copy of the waiver) must be attached with the completed enrollment form and the official transcripts.

   Test waivers for English and mathematics if taken at other colleges or (SAT, AP) scores. Bring proof (test score or transcripts) to the Matriculation office, Conlan Hall, Rm. 204 to obtain the waiver. This waiver must accompany your Nursing application.
5. File a completed enrollment form for the Nursing Program. Contact Nursing Department or ***www.ccsf.edu/rn*** for filing dates.
6. Official transcript in a sealed manila envelope must be submitted with the enrollment form.
7. ATI TEAS (or equivalent). ATI TEAS will also be administered to those selected for conditional enrollment.

Health and safety requirements. Nursing courses require students to practice nursing skills in the classroom and in cooperating clinical settings. For health and safety reasons, those accepted into the program must demonstrate through a recent, complete medical examination that they are able to participate in the program, have been tested for tuberculosis, and that they have received the following: rubeola,

rubella, varicella, mumps, hepatitis B vaccinations and antibody titers which demonstrates immunity to those diseases, current Tetanus/Diptheria/Pertussis, Seasonal Influenza vaccine, COVID 19 Vaccination and Booster.

Enrollees must also provide verification of cardiopulmonary resuscitation basic life support, Health Care Provider certification. Students are required to do a background check and drug screen. Verification of these requirements must be received by the Nursing Department prior to the first day of class. Some hospitals may require students assigned to their hospital to submit to an additional background check and drug screen.

Academic Challenge of Nursing Courses:

BRN Rules & Regulation Business Code 2786.6

Consideration for challenging a Nursing course will be on an individual basis based on previous education and/ or experience. It is the responsibility of the candidate, who wishes to be considered entry or waiver via challenge exam, to notify the Nursing Department Chair of his/ her request to receive more information and counseling. The Non-Generic Admissions Committee of the Nursing Department will review & recommend their findings to the Nursing Department Chair and the Nursing Department faculty for their endorsement. College Catalog requirements on "Credit by Examination" will be adhered.

Candidates eligible for specific Challenge Exams are: re-entry nursing students (in good academic standing when last enrolled in the program), Advanced Placement LVNs or nursing students transfer from another R.N. Program.

Advanced Placement Policy for Licensed Vocational Nurses

Licensed Vocational Nurses with a current and active California license may apply to the Nursing Program as "Advanced Placement" status. All of the academic and administrative prerequisites must be completed and the student can apply during the regular enrollment time using the same application form as all other applicants.

These candidates may enter via Challenge Exam for Nursing Fundamentals. Challenge exams may consist of nursing theory, medical math calculations, and nursing skills. All candidates eligible for the challenge exam will be informed of the criteria for passing such exams. Those passing the Challenge Exam will have waiver of the first semester Fundamentals of Nursing (NURS 50) and Skills courses (NURS 50L).

Students who qualify for this option should make an appointment with the Nursing Program Director for additional information.

Procedure:

LVN Advanced Placement applicant will complete the following:

Submit a completed application during our annual enrollment period and choose LVN Advanced Placement option on application (dates posted on CCSF Registered Nursing Website).

- Submit official transcript from all schools or colleges where prerequisites and other college courses completed.
- Submit evidence of Active LVN license with license number (Report from DCA BreEZe).
- Complete ATI Test of Essential Academic Skills (TEAS) exam (62% or higher) and submit first attempt official results to the Registered Nursing Department.

The Non-Generic Admissions Committee will review the documentation to determine whether full or partial course credit can be given for Advanced Placement through its course challenge policy.

If the applicant meets criteria for challenge, the Non-Generic Admissions Committee will schedule the candidate to complete the challenge exam(s) for all applicable courses. Satisfactory level of achievement on challenge examinations or other evaluative methods to validate achievement of course objectives will include;

- Skills competency evaluation
- Written challenge exam(s)
- Dosage calculation exam

The following materials will be made available to the applicant as preparation for the examination(s) and skills testing for credit:

- Course outline
- Syllabus with course objectives
- Bibliography and textbook list
- Types of test items
- Format of examination and testing
- Critical elements for nursing skills
- Dosage calculation review sheet and rules for rounding

If candidate passes the NURS 50 Theory challenge, the Medical Math, and the Skills Competency exam, candidate will be directed to enroll in NURS 50A prior to enrollment in NURS 51 & NURS 50B

Entry to the nursing courses is based upon space availability.

LVN 30 Unit Option (Non-Degree Option):

A. Licensed Vocational Nurses with a current active California license who wish to take the 30-Unit Option Program must complete different academic prerequisites.

B. Microbiology and Physiology may be taken without recency or repetition limits. The courses must have lecture and lab with a minimum of 4 semester units and be completed with a grade "C" or higher.

C. Submit the application during the enrollment period

D. Make an appointment with the Chairperson of the Nursing Department for more information and counseling. At the present time, the R.N. curriculum courses you will be taking will be Nursing 50A & 50B (Pharmacology in Nursing, Parts 1 and 2), Nursing 55 (Psychiatric Nursing), Nursing 56 (Advanced Medical-Surgical Nursing), and Nursing 58 (Trends and Issues in Nursing). Entry into these nursing courses is contingent upon space availability.

E. Passing the licensing exam under this 30-Unit Option Program will result in R.N. licensure for California as a "Non Graduate". There is no guarantee that the license is transferable to other states. It is up to the license holder to contact other states' Boards of Registered Nursing to inquire if the California 30-Unit Option Program R.N. license is accepted.

F. Students choosing the 30-unit option are enrolled on a space available basis only. Once enrolled in the 30-unit option the student can not decide to change to graduation track.

ATTENDED CCSF RN PROGRAM OR ANOTHER REGISTERED NURSING PROGRAM

A. At present time, no student is admitted who has failed a nursing course, Clinical or Theory, in another Nursing Program.

B. In order for our Department to consider your application, you must submit a letter on official school stationery from the

Director of the Nursing Department at the college in which you were enrolled. It must address the following:

1. Length of the time you were enrolled.
2. Must have statement that demonstrates that you were in good standing at the time of withdrawal from their Nursing Program, with no history of failing any of the nursing courses, Theory or Clinical.

Transfer student from other accredited RN nursing program

A. The CCSF Nursing Department accepts Transfer Students who have successfully completed some Nursing Credits from other accredited R.N. Programs.

B. Applicants must complete the same application at enrollment time and include reason for transfer and submit transcripts, outlines/course syllabi from previous R.N. Program. Applicants must have a letter from their previous school of nursing director that states that student was in good standing at the time of the withdrawal.

C. The application, transcripts, course syllabi and letters from previous R.N. Program will be reviewed by our nursing faculty for equivalency and determination of specific nursing courses in our R.N. Program required to complete pre-licensure requirements.

D. Acceptance is based on equivalent professional nursing education, general education courses. Transfer students must meet the same enrollment requirements and nursing policies as all nursing students entering the program.

E. Admission into the program is subject to space availability.

F. No student will be admitted who has failed a nursing course, clinical or theory in another Nursing Program.

Graduates in Nursing from a Foreign School with Board of Registered Nursing Deficiencies:

A. Nursing graduates from other countries who are deficient in nursing units as stipulated by the California BRN may apply to fulfill these deficiencies.

B. Applicants must complete the same enrollment form during the enrollment period and include a copy of the letter from the BRN with the requirements for class makeup.

C. Admission is based on space availability.

Advanced Placement Policy for Applicants Who Have Military Education and Experience.

In compliance with the California Code of Regulations sections 1423.1, 1423.2 and amended CCR sections 1418, 1424, 1426, and 1430 that implement Senate Bill 466 and in recognition of the service that Military Personnel have provided to the country and its citizens, the City College of San Francisco Registered Nursing Program offers advanced placement for qualified individuals.

Individuals who present with relevant military education and experience equal to but not limited to Basic Medical Technician Corpsman (Navy HM or Air Force BMTCP), Army Health Care Specialist (68W Army Medic) or Air Force Independent Duty Medical Technician (IMDT 4N0X1C) are eligible for advanced placement at the City College of San Francisco Registered Nursing Program. All nursing courses can be challenged; however, individuals must have prior relevant education and experience that meet the specific requirements of each course.

Prospective applicants must schedule a counseling appointment with the Nursing Program Director.

The Non-Generic Admissions Committee will review the following documentation to determine whether full or partial course credit can be given for nursing courses through its course challenge policy:

- Form DD214 demonstrating honorable military discharge.
- Documents demonstrating completion of program entrance requirements including designated prerequisites and assessment testing.
- Official transcripts with syllabi of relevant military education program and clinical experience demonstrating satisfactory completion of coursework and clinical experience

Procedure:

1. For **ALL Military Applicants**: Review the CCSF Nursing Program Admission Information.
2. Complete program entrance requirements including designated prerequisites.
3. Schedule an advising appointment with the Director of Nursing at least 4 weeks prior to our application period to review the eligibility requirements for the CCSF Associate Degree Nursing Program.
4. Submit a completed application during our annual enrollment period and choose Military Advanced Placement option on application (dates posted on CCSF Registered Nursing Website).
    - Include documents of honorable discharge (Form DD214).
    - Submit all official transcripts with syllabi of relevant military education program and clinical experience demonstrating satisfactory completion of coursework and clinical experience with application.
    - Complete ATI Test of Essential Academic Skills (TEAS) exam (62% or higher) and submit first attempt official results to the Registered Nursing Department.
5. Application and supporting documents will be reviewed by the Non-Generic Admissions Committee. If the applicant meets criteria for challenge, the Non-Generic Admissions Committee will schedule the candidate to complete the challenge exam(s) for all applicable courses. Satisfactory level of achievement on challenge examinations or other evaluative methods to validate achievement of course objectives will include;
    - Skills competency evaluation
    - Written challenge exam(s)
    - Dosage calculation exam
6. The following materials will be made available to the applicant as preparation for the examination(s) and skills testing for credit:
    - Course outline
    - Syllabus with course objectives
    - Content outline
    - Bibliography and textbook list
    - Types of test items
    - Format of examination and testing
    - Critical elements for nursing skills

- Dosage calculation review sheet and rules for rounding

Advance Placement students are admitted on a space availability basis; however, military personnel and veterans are given preference

Credit by Examination. All nursing courses are challengeable. Consideration for challenge will be based on previous education and/or experience on an individual basis.

Academic Probation and Dismissal. The failure of a nursing student to satisfactorily demonstrate mastery of required knowledge, skills, or abilities that may jeopardize the safety and welfare of others. Depending on the nature of the performance that demonstrates the lack of necessary knowledge, skills, or abilities, students may be placed on clinical probation or may be subject to academic dismissal prior to the end of the semester.

All City College students, including Nursing students, are subject to the Rules of Student Conduct, and must conform their behavior to appropriate standards, both during theory classes and during clinical experiences at cooperating clinical settings.

Assuming students start this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Registered Nursing

Course . . . . . Units

First Semester:
NURS 50 Fundamentals of Nursing 6.0
NURS 50A Pharmacology in Nursing Part I 2.0
NURS 50L Nursing Skills Lab 1.0

Second Semester:
NURS 50B Pharmacology in Nursing Part II 2.0
NURS 51 Basic Medical-Surgical Nursing 6.0
NURS 51L Intermediate Nursing Skills 1.0

Third Semester:
NURS 53 Maternal Newborn Nursing 6.0
NURS 55 Psychosocial Nursing. 6.0

Fourth Semester:
NURS 58 Trends and Issues in Nursing 1.0
NURS 54 Nursing of Children. 6.0
NURS 56 Advanced Medical-Surgical Nursing 6.0

Course required by the Board Of Registered Nursing:
PSYC 1 General Psychology 3.0

These courses meet the California Board of Registered Nursing Requirement for Licensure and must be completed prior to taking the R.N. Licensure Examination (NCLEX).

Choose one of the following additional courses required by the Board Of Registered Nursing:
SOC 1 Introduction to Sociology 3.0
ANTH 3 Introduction to Social and Cultural Anthropology 3.0
ANTH 3C Introduction to Cultural Anthropology: Focus on U.S. Cultures. 3.0

These courses meet the California Board of Registered Nursing Requirement for Licensure and must be completed prior to taking the R.N. Licensure Examination (NCLEX).

Choose one of the following additional courses required by the Board Of Registered Nursing:
CMST 1A Elements of Public Speaking 3.0
CMST 4 Group Communication 3.0
CMST 20 Interpersonal Communication 3.0
ESL 79 Advanced Speaking and Pronunciation 3.0

These courses meet the California Board of Registered Nursing Requirement for Licensure and must be completed prior to taking the R.N. Licensure Examination (NCLEX).

Total: 52.0

Announcement of Courses

Credit, Degree Applicable Courses:

NURS 50. Fundamentals of Nursing (6)
Lec-52.5, Lab-157.5
Prereq: Admission to the Registered Nursing Program
Coreq: NURS 50L and NURS 50A
Introduction to nursing fundamentals, basic medical-surgical concepts, and principles of care common to adults/older adults. This course includes application of theory and practice of skills in the clinical area and will lay the foundation for successive nursing courses. The clinical experience is designed to be concurrent with theory. CSU
Offered Spring and Fall semesters

NURS 50A. Pharmacology in Nursing Part I (2)
Lec-35
Coreq: NURS 50; NURS 50L
This course provides an introduction to pharmacology with emphasis placed on nursing implications of drugs: including administration, adverse effects, clinical indications, dosages and frequencies, drug interactions, pharmacologic effects, and precautions and contraindications to use. CSU
Offered Spring and Fall semesters

NURS 50B. Pharmacology in Nursing Part II (2)
Lec-35
Prereq: NURS 50A
Coreq: NURS 51 and NURS 51L
This course provides a continuation of the study of pharmacology with emphasis placed on nursing implications of drugs, including administration, adverse effects, clinical indications, dosages and frequencies, drug interactions, pharmacologic effects, and precautions and contraindications to use. CSU
Offered Spring and Fall semesters

NURS 50L. Nursing Skills Lab (1)
Lab-52.5 P/NP only
Coreq: NURS 50; NURS 50A
The nursing skills lab is designed to orient, assist, and enhance the development of psycho motor and cognitive skills that are critical in the performance of selected fundamental nursing procedures. CSU
Offered Spring and Fall semesters

NURS 51. Basic Medical-Surgical Nursing (6)
Lec-52.5, Lab-157.5
Prereq: (NURS 50 and NURS 50L and NURS 50A) or current LVN license
Coreq: NURS 50B and NURS 51L
Acquaints the student with adults/geriatric adults experiencing dysfunction of the cardiovascular, respiratory, gastrointestinal, urinary, and male reproductive systems. Emphasis is placed on nursing process and integrating principles of nutrition, pharmacology, pathophysiology, psychosocial and biological sciences. Students are assigned to care for patients in acute or postacute care settings. CSU
Offered Spring and Fall semesters

NURS 51L. Intermediate Nursing Skills (1)
Lab-52.5 P/NP only
Prereq: (NURS 50; NURS 50L; NURS 50A) or current LVN license
Coreq: NURS 51; NURS 50B
Intermediate-advanced nursing skills for the adult medical-surgical patient. Laboratory instruction consisting of assigned reading, class discussion, and demonstration of skill by instructor. Student practice and return demonstration. Clinical simulation and case studies incorporating recently acquired skills for enhancement of critical thinking skills and application of concurrent theory to practice. CSU
Offered Spring and Fall semesters

NURS 53. Maternal Newborn Nursing (6)
Lec-52.5, Lab-157.5
Prereq: NURS 50B and NURS 51L and NURS 51
This course covers the principles and practices of maternal newborn health and nursing care. The maternity cycle, women's health and the development of the newborn from the embryonic stage to neonatal life will be covered. Clinical nursing experience will be in the acute care inpatient settings and in outpatient settings. CSU
NURS 53 and 55 are half-semester courses required in the third semester of students enrolled in the curriculum in Nursing. The sequence in which students will take these courses will be determined by the Nursing Department.
Offered Spring and Fall semesters

NURS 54. Nursing of Children (6)
Lec-52.5, Lab-157.5
Prereq: NURS 55 and NURS 53
Growth and development of children from birth through adolescence. Nursing education for health maintenance, prevention, medical treatment, and nursing interventions for common disease condition or injuries that affect children. The nursing clinical experience will be at multicultural inpatient hospital units, outpatient areas, and schools in San Francisco. CSU
NURS 54 and 56 are half-semester courses required of nursing students in the fourth semester of the program. The nursing department determines the sequence in which students will take these courses.
Offered Spring and Fall semesters

NURS 55. Psychosocial Nursing (6)
Lec-52.5, Lab-157.5
Prereq: NURS 50B; NURS 51; NURS 51L
This course covers the principles and practices of psychosocial health and nursing care. Emphasis is placed on the development of therapeutic communication skills, fundamental to all nursing care. Prevention and treatment of psychopathology is explored. Clinical nursing experience will be in the acute care inpatient settings and in outpatient settings. CSU
Offered Spring and Fall semesters

NURS 56. Advanced Medical-Surgical Nursing (6)
Lec-52.5, Lab-157.5
Prereq: NURS 53 and NURS 55
Advanced medical-surgical nursing of adults, and leadership and management theories. Application of the nursing process in the care of adults with acute and chronic complex health impairment and illness. Clinical experience is planned at acute and non-acute hospitals, facilities, and out-patient sites. CSU
Offered Spring and Fall semesters

NURS 58. Trends and Issues in Nursing (1)
Lec-17.5 P/NP only
Coreq: NURS 54 or NURS 56
Acquaints student with historical and current trends, issues in nursing practice, and the concept of professional development. Emphasis placed on legal and ethical aspects of nursing and the California Board of Registered Nursing Practice Act. Students examine contemporary issues that affect the practice of registered nursing. CSU
Offered Spring and Fall semesters

Nursing, Licensed Vocational

Office: John Adams
Phone Number: 415 561-1912
Web Site: *www.ccsf.edu/lvn/*

Announcement of Curricula

Accreditation. The Licensed Vocational Nursing program is accredited by the Board of Vocational Nursing and Psychiatric Technicians. For more information about this agency, see the "Overview of the College" section of this Catalog.

Nurse Assistant/Home Health Aide Certificate

Graduates of this program will be highly qualified for entry-level positions as health care providers in acute care and convalescent facilities as well as home care agencies and out-patient clinics. Critical thinking concepts and principles serve as a framework for studying nursing and behavioral sciences within a health promotion/risk reduction, multicultural-based curriculum.

Program Authorization. This program is approved by the California State Department of Health Services. Successful completion qualifies the graduate to 1) take the Nurse Assistant Competency Examination to obtain State Certification for practice; 2) obtain Home Health Aide Certification without further examination.

NOTE: The Department of Health Services, Nurse Assistant Certification Division requires fingerprinting and disclosure of misdemeanor and felony convictions for all applicants.

Enrollment Procedure. Applicants must take a placement test, attend a program orientation, and meet the following program prerequisites:

1. Age 18 or older
2. ESL 184 or ENGL 88 or readiness for college-level English
3. A physical examination demonstrating good physical and mental health
4. Immunizations: Hepatitis B, Rubella, Varicella, Mumps, and T.B.
5. Current CPR certification for Healthcare Provider
6. Department of Health Services Applications
7. Department of Homeland Security Application for Criminal Background Check

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the fundamental nursing skills instructed in the State-approved nursing assistant/home health aide training program.

- Use effective communication skills while delivering care to clients and families in diverse communities.
- Analyze the Patient's Bill of Rights and the importance of the Privacy Rule in the Health Insurance Portability and Accountability Act.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Nurse Assistant/Home Health Aide

Course	Units
Required courses	
VOCN 23 Nurse Assistant/Convalescent Care	7.0
VOCN 24 Home Health Aide	2.5
VOCN 25 Nurse Assistant/Acute Care	3.5
Choose 3.5 – 4 units from the following	
BIO 134 Introduction to Nutrition for Health Sciences	3.0
EMT 12 Basic Life Support for Healthcare Providers	0.5
HLTH 170 Introduction to Nutrition Professions	1.0
HCT 110 Health Unit Coordinator	4.0
Total:	**16.5 – 17.0**

Vocational Nursing Certificate

The program of study for the Certificate of Achievement in Vocational Nursing is designed to prepare students for employment in acute care facilities, clinics, long-term care facilities, physician offices, home care, and health centers.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use effective communication skills as appropriate while delivering care to patients and families in various nursing practice settings, and in collaboration with the health care team.
- Demonstrate safe and competent nursing care based on scientific principles to patients of any age and cultural background in a variety of work settings under the direction of the registered nurse or physician.
- Apply the Nursing Process to individualize patient care in any health care setting.
- Demonstrate professionalism in the practice of Vocational Nursing.

Enrollment is open to all interested students who are in good physical and mental health, and over 17 years of age. To be admitted to the program applicants must:

1. Be a graduate of the 12th grade in high school or its equivalent (i.e., GED, High School Proficiency Examination).
2. Attend mandatory program orientation at John Adams site. Application to the program will be handed out during the orientation. Program orientation is valid for one year.
3. File with the Vocational Nursing Department a completed application for admission to City College (for dates, see "Calendar of Instruction").
4. Apply for admission to the program for the Fall semester between February 15 and May 1, and for the Spring semester, between September 15 to November 1. Completion of English 1A and MATH 40 or higher.
5. Have an overall GPA of 2.5 in Science and 2.0 in English 1A.
6. Submit official transcripts.
   a. High school transcripts must show proof of completion of the 12th grade. Transcripts must be submitted in keeping with the application deadline.
   b. Applicants who are accepted in Vocational Nursing and who wish to receive credit for prior nursing education courses completed must submit official transcript within application deadline.
7. Admission of Certified Nurse Assistant, Board Challenge transfer students.
   a. State of California CNA certificate and completion of a CNA program from a credit-granting college within the previous 5 years qualifies a student for at least 4 units.
   b. Transfer students from other accredited L.V.N. or R.N. programs are accepted in the CCSF Vocational Nursing Program. Acceptance is based on equivalent nursing education and availability of space.
   c. Board challenge applicants who need required courses for state boards should contact the vocational nursing office.
   d. Credit may not be given toward satisfying the Vocational Nursing course requirement, for courses completed 5 or more years prior to application for admission.
8. Complete the following prerequisites within 5 years prior to enrollment with a C or higher in each class starting with Fall Semester 2019: Anatomy and Physiology course 4 units (e.g. BIO 106, or BIO 108 and 112). VOCN 41D Pharmacology, and VOCN 42E Nutrition (or BIO 134), and CDEV 53 Child Growth and Development.

Credit by Examination. Applicants who qualify for admission into the Vocational Program and who have had health training courses in the military, psychiatric technician and certified nurse assistants graduates from noncredit programs who wish to receive credit, or advanced placement should contact the vocational nursing office for additional information. Admission is based on space availability only.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Vocational Nursing

Course	Units
First Semester:	
VOCN 41A Fundamentals of Vocational Nursing	4.0
VOCN 41B Basic Medical/Surgical Nursing	8.0
VOCN 41C Basic Medical/Surgical Skills Lab	0.5
Second Semester:	
VOCN 42A Adult Medical Surgical Nursing I	5.5
VOCN 42B Adult Medical Surgical Nursing II	5.5
VOCN 42C Adult Medical/Surgical Skills Lab	0.5
VOCN 42D Mental Health Nursing	2.0
Third Semester:	
VOCN 43A Concepts in Community Health Nursing	2.5

VOCN 43B Maternity Nursing 4.5
VOCN 43C Pediatric Nursing 3.5
VOCN 43D Advanced Medical Surgical Nursing. 3.5
VOCN 43E Advanced Medical/Surgical Skills Lab 0.5
Total: 40.5

Announcement of Courses

Credit, Degree Applicable Courses:

Some courses require an additional fee to cover the cost of background checks, testing, and fingerprinting

VOCN 23. Nurse Assistant/Convalescent Care (7)
Lec-82, Lab-128
Prereq: Certification of Cardio Pulmonary Resuscitation (CPR) approved by the American Heart Association or American Red Cross for Health Care Providers and complete immunization as required by the affiliated facility
Theory and content integrating basic nursing concepts and skills in order to provide safe and competent patient care in a long term care setting. Core components include communication and interpersonal skills, infection control, safety and emergency procedures, promoting patient independence, patient/resident rights, basic nursing skills, personal care skills, mental health and social service needs, care of the cognitively impaired and basic restorative services. CSU

VOCN 24. Home Health Aide (2.5)
Lec-44, Lab-20
Prereq: A valid Certified Nursing Assistant Certificate provided by the California Department of Public Health.; VOCN 23
A short term course that provides an introduction to basic client care in the home setting focusing on the following core components: all basic nursing skills in the home base setting, liability, safety, infection control, emergency procedures, abuse, patient independence, patient/residents' rights, social needs, housekeeping chores, food management, laundry, and record keeping. Successful completion of this course will entitle the student to a State Certification as a Home Health Aide (HHA). CSU

VOCN 25. Nurse Assistant/Acute Care (3.5)
Lec-35, Lab-91
Prereq: VOCN 23 or possession of a valid Nursing Assistant Certification; Complete immunization as required by the affiliated facility.
Learn the knowledge and skills needed to function in an acute care setting, focusing on the needs of the acute care patient and the role of a certified nursing assistant in meeting those needs. Clinical placement in an acute care setting will provide hands-on experience caring for acutely ill patients with a variety of diagnoses. Teamwork, communication, and the importance of accurate observation and assessment will be emphasized. CSU

VOCN 41A. Fundamentals of Vocational Nursing (4)
Lec-72, Lab-16
Coreq: VOCN 41B and VOCN 41C
Provides an introduction to basic patient care in the hospital setting with a focus on the following core components of Vocational Nursing: the nursing process, legal aspects of nursing, medical terminology, therapeutic communication, basic bedside nursing care, client teaching, infection control and basic needs assessment. CSU

VOCN 41B. Basic Medical/Surgical Nursing (8)
Lec-56, Lab-252
Prereq: Completion of or concurrent enrollment in: VOCN 41A
Coreq: VOCN 41C
Presents theory content with concurrent clinical practice. Systems focus includes the musculoskeletal, integumentary, and gastrointestinal systems. Nursing care of the geriatric client is emphasized to promote understanding of the core concepts of basic medical-surgical nursing: health and illness, culturally competent and age-appropriate nursing care. CSU

VOCN 41C. Basic Medical/Surgical Skills Lab (.5)
Lab-35
Coreq: VOCN 41A and VOCN 41B
Introduction to basic medical-surgical assessment skills as well as the nursing skills commonly practiced for clients with integumentary, musculoskeletal and gastrointestinal disorders. CSU

VOCN 41D. Pharmacology (3)
Lec-52.5
Introduction to the basic concepts of pharmacology for the vocational nursing student. Basic principles of pharmacology, medication, calculations, preparation, administration and storage are emphasized. CSU

VOCN 42A. Adult Medical Surgical Nursing I (5.5)
Lec-45, Lab-162
Prereq: VOCN 41A and VOCN 41B and VOCN 41C
Coreq: VOCN 42B and VOCN 42C and VOCN 42D and VOCN 42E
This course presents theory with concurrent clinical practice. System focus includes hematologic, cardiovascular, respiratory, and immunological. Core concepts include care of the surgical patient, pain management, and fluid and electrolyte balance. CSU

VOCN 42B. Adult Medical Surgical Nursing II (5.5)
Lec-45, Lab-162
Prereq: Completion of or concurrent enrollment in: VOCN 42A
Coreq: VOCN 42C
This course presents theory content with concurrent clinical practice. System focus includes neurological, endocrine, genitourinary and reproductive systems. CSU

VOCN 42C. Adult Medical/Surgical Skills Lab (.5)
Lab-35
Prereq: VOCN 41A and VOCN 41B and VOCN 41C
Coreq: VOCN 42A and VOCN 42B and VOCN 42D and VOCN 42E
Presents the nursing skills commonly practiced for clients with hematologic, lymphatic, cardiovascular, respiratory, neurological, endocrine, genitourinary, and reproductive disorders. CSU

VOCN 42D. Mental Health Nursing (2)
Lec-35
Prereq: VOCN 41A and VOCN 41B and VOCN 41C
Coreq: VOCN 42A and VOCN 42B and VOCN 42C and VOCN 42E
Introduction of the basic concepts of mental health nursing for the vocational nursing student with a focus on the current therapeutic interpersonal processes and problem solving techniques helpful in identification and treatment of the mental health disorders which may be present in acutely ill medical/surgical patients. CSU

VOCN 43A. Concepts in Community Health Nursing (2.5)
Lec-30, Lab-60
Prereq: VOCN 42A; VOCN 42B; VOCN 42C; VOCN 42D
Coreq: VOCN 43E; VOCN 43B; VOCN 43C; VOCN 43D
Introduction to community health nursing: home health care, long-term care, rehabilitative and hospice care, as well as disaster nursing. CSU

VOCN 43B. Maternity Nursing (4.5)
Lec-50, Lab-90
Prereq: VOCN 42A and VOCN 42B and VOCN 42C and VOCN 42D and VOCN 42E
Coreq: VOCN 43A and VOCN 43C and VOCN 43D and VOCN 43E
Presents the principles and practice of obstetrical nursing, with an emphasis on the scope of practice of the Vocational Nurse. Individualized, culturally appropriate nursing care for the new mother and neonate are examined. CSU

VOCN 43C. Pediatric Nursing (3.5)
Lec-40, Lab-72
Prereq: VOCN 42A and VOCN 42B and VOCN 42C and VOCN 42D and VOCN 42E
Coreq: VOCN 43A and VOCN 43B and VOCN 43D and VOCN 43E
Presents the principles and practice of nursing care of children from birth to 18 years old. Health maintenance, disease prevention and common childhood abnormalities are emphasized. CSU

VOCN 43D. Advanced Medical Surgical Nursing (3.5)
Lec-40, Lab-72
Prereq: VOCN 42A and VOCN 42B and VOCN 42C and VOCN 42D and VOCN 42E
Coreq: VOCN 43A and VOCN 43B and VOCN 43C and VOCN 43E
This course presents theory content with concurrent clinical practice with a focus on current therapeutic treatment modalities and nursing management for advanced medical/surgical patients. Core concepts include: care of the following patients; the burn patient; the patient in heart failure; the patient in shock; the patient with upper and lower airway disorders; the patient with tumors of the neurological system; the patient in renal failure; leadership and management. CSU

VOCN 43E. Advanced Medical/Surgical Skills Lab (.5)
Lab-35
Prereq: VOCN 42A and VOCN 42B and VOCN 42C and VOCN 42D and VOCN 42E
Coreq: VOCN 43A and VOCN 43B and VOCN 43C and VOCN 43D
Presents the nursing skills commonly practiced in maternity and pediatric nursing as well as the client with advanced medical-surgical disorders. CSU

VOCN 51A. Fundamentals of Nursing (4)
Lec-70
Prereq: Admission to the LVN Certificate Program
Coreq: VOCN 51B and VOCN 51C
Provides an introduction to basic patient care in the hospital setting with a focus on the following core components of Vocational Nursing: the nursing process, legal aspects of nursing, medical terminology, therapeutic communication, basic bedside nursing care, client teaching, infection control, and basic needs assessment. This course may also serve as a pathway from LVN to ADN degree. CSU

VOCN 51B. Basic Medical/Surgical Nursing (3.5)
Lec-62
Coreq: VOCN 51A and VOCN 51C
Presents theory as applied to clinical nursing practice. Systems focus includes the musculoskeletal, integumentary, and gastrointestinal systems. Nursing care of the geriatric client is emphasized to promote understanding of the core concepts of basic medical-surgical nursing: health and illness, cultural competence and age-appropriate nursing care. CSU

VOCN 51C. Clinical and Skills Lab I (6)
Lab-315
Coreq: VOCN 51A and VOCN 51B
Introduction to basic medical-surgical assessment skills as well as the nursing skills commonly practiced for clients with integumentary, musculoskeletal, and gastrointestinal disorders. This course includes the application of theory and practice of fundamental skills in the skills lab and the clinical area. CSU

VOCN 51D. Pharmacology (3)
Lec-52.5
Introduction to the basic concepts of pharmacology with emphasis on the principles of pharmacology, medication, calculations, preparation, administration, and storage of medications, and understanding of the actions, side effects, and adverse reactions of different drugs. CSU

VOCN 52A. Psychology in Nursing (3)
Lec-52.5
Prereq: VOCN 51A and VOCN 51B and VOCN 51C
Coreq: VOCN 52B
An introduction to basic concepts of mental health nursing with a focus on current therapeutic interpersonal processes and problem-solving techniques. Study of the identification and treatment of mental health disorders that may be present in acutely ill medical/surgical patients. CSU

VOCN 52B. Intermediate Adult Medical Surgical Nursing (5)
Lec-87.5
Prereq: VOCN 51A and VOCN 51B and VOCN 51C
Coreq: VOCN 52A and VOCN 52C
Study theory in relation to concurrent clinical practices and body systems, including hematologic, cardiovascular, respiratory, and immunological. Disorders related to neurological, endocrine, genitourinary, and reproductive systems are also examined, including diagnostic and treatment modalities, and nursing responsibilities. Core nursing concepts include care of the surgical patient, pain management, and fluid and electrolyte balance. CSU

VOCN 52C. Clinical and Skills Lab II (7)
Lab-367.5
Prereq: VOCN 51A and VOCN 51B and VOCN 51C
Coreq: VOCN 52B
This course presents the nursing skills commonly practiced for clients with hematologic, lymphatic, cardiovascular, respiratory, neurological, endocrine, and genitourinary disorders. CSU

VOCN 53A. Maternity and Pediatrics (5)
Lec-87.5
Prereq: VOCN 52A and VOCN 52B and VOCN 52C
Coreq: VOCN 53C
Presents the principles and practice of nursing care in Maternal and Child Care. Individualized, culturally appropriate nursing care for the

new mother and neonate. Health maintenance, disease prevention and common childhood diseases and abnormalities from birth to 18 years old. CSU

VOCN 53B. Advanced Medical Surgical and Community Health Nursing (5)
Lec-87.5
Prereq: VOCN 52A and VOCN 52B and VOCN 52C
Coreq: VOCN 53C
This course explores theoretical content and clinical practices with a focus on current therapeutic treatment modalities and nursing management for advanced medical/surgical patients, including studies of cancers, burns, shock, leadership, and management, as well as heart, respiratory, neurological, and renal failure. Community health nursing involves topics such as home health care, long-term care, rehabilitative and hospice care, as well as disaster nursing. CSU

VOCN 53C. Clinical and Skills Lab III (6.5)
Lab-342
Prereq: VOCN 52A and VOCN 52B and VOCN 52C
Coreq: VOCN 53A and VOCN 53B
Presents the nursing skills and procedures commonly practiced in Maternity, Pediatric, and Advanced Medical-Surgical Nursing including skills related to Community Health Nursing. CSU

Oceanography*

* See Earth Sciences.

Older Adults

Office: Mission Center 265
Phone Number: (415) 452-7403
Web Site: *www.ccsf.edu/olad*

Announcement of Courses

Noncredit Courses:

Health

OLAD 7007. Body Dynamics and the Aging Process II (36 hrs)
Through lecture, demonstration, and practice, older adults learn strategies for safely implementing a physical activity program, techniques for stress reduction, and understanding key healthy aging concepts to maintain and improve overall health and well-being.

OLAD 7209. Mind Body Health (36 hrs)
Lecture, discussion, and practice to learn about the mind/body connection using such techniques as a Qigong warmup, accessible/chair yoga, and the moving meditation practice of T'ai Chi Chih: 19 Movements and One Pose.

The Arts

OLAD 7300. Art for Older Adults (45 hrs)
The course is for older adults who are interested in learning to make art in a relaxed, non-credit environment. This course develops formal artistic skills and techniques through drawing and painting for beginning to advanced students. Individual and group instruction includes composition, color mixing, perspective, proper use of brushes and mediums, working with paper and canvas.

OLAD 7301. Arts and Crafts for Older Adults (45 hrs)
The course is for older adults who are interested in learning to make various arts and crafts projects in a relaxed, non-cademic environment. This course develops formal artistic skills such as color, composition, form, harmony, texture, and contrast through physical and tactile skills such as painting, weaving, and sculpture. Completed projects are two or three-dimensional using a variety of materials and mediums.

OLAD 7311. Ceramics for Older Adults (45 hrs)
In a supportive studio atmosphere, older students learn and gain proficiency in making ceramic art with basic methods of construction, glaze application and kiln-firing processes; sharing their work and critiquing that of their peers.

OLAD 7320. Art for People with Memory Loss (45 hrs)
In a supportive studio atmosphere at a senior center, older students with memory loss will learn a variety of methods and use different media to make art in a supportive environment.

OLAD 7303. Figure Drawing- Older Adults (54 hrs)
The course is for older adults who are interested in learning to make art in a relaxed, non-credit environment. The studio class is in drawing the human figure from a life model. Media used includes pencil, charcoal, ink, and varieties of paint such as watercolor, acrylic, and oil. All skill levels are welcome.

OLAD 7310. Stitchery for Older Adults (45 hrs)
The course is for older adults who are interested in stitchery as an art form, share experiences with fellow enthusiasts, and collaborate in group projects in a relaxed, non-credit environment. Hands-on course. Skills related to stitchery and textile arts include patchwork, quilting, applique, trapunto, and embroidery stitches. Small projects to learn basic techniques for beginning students and individual or group projects for advanced students.

Music and Theater

OLAD 7307. Music Appreciation for Older Adults (36 hrs)
The course is for older adults who are interested in learning about music in a relaxed, non-credit environment. Study of and familiarization with the music of the world today. Introduction to various genres of music including western classical, jazz, folk, and music of other cultures. Other genres may include symphonies, concertos, operas, chamber, oratorio, ballet, or choral music.

Writing and Literature

OLAD 7401. Writers' Workshop for Older Adults (45 hrs)
In a supportive atmosphere, older students will learn and gain proficiency in writing fiction and non-fiction, assess work by masters of the craft, share their work and critique that of their peers.

OLAD 7402. English-Reading Women's Literature (54 hrs)
Recommended Prep: ESLN 3800
The course is for older adults who are interested in reading literary works by women in a relaxed, non-credit environment. Study of works by and about women, including novels, short stories, essays, biography, and poetry. Development of reading and critical thinking skills aimed at supporting the cognitive skills and brain capacity of older adults. Each semester focuses on a different theme with American or international authors.

Philippine Studies

Office: Batmale 360
Phone Number: (415) 239-3740
Web Site: *https://www.ccsf.edu/academics/schools/social-sciences-behavioral-sciences-ethnic-studies-social-justice/philippine-studies*

Announcement of Curricula

General Information

Courses in Philippine Studies currently count toward the following degrees and certificates: Asian American Studies (AA-T & Certificate of Achievement), Film (AA & Certificate of Achievement), Scriptwriting (Certificate of Achievement), Critical Middle East / South West Asia and North Africa Studies (AA), Critical Pacific Islands and Oceania Studies (AA & Certificate of Achievement), Ethnic Studies (AA-T), Liberal Arts & Sciences, Arts & Humanities (AA with an Area of Emphasis), Social and Behavioral Science (AS with an Area of Emphasis), Filipino (Tagalog) – (Certificate of Accomplishment). For more information and support please contact the TULAY – Filipino American Student Success Program.

Philippine Studies Major (AA)

An Associate Degree in Philippine Studies provides students the opportunity to cultivate a critical understanding of the complex history and experiences of the Filipinx community in the Philippines and the diaspora. Students will develop a greater awareness and understanding of issues such as economic and social transnationalism, emigration and acculturation, the power of cultural values and heritage in the process of identity development. Our courses will allow students to fulfill transfer requirements to CSU, UC, and private universities. The AA is designed for students who wish to pursue a specialization in Philippine Studies in the following disciplines: Area Studies, Ethnic Studies, History, Sociology, Psychology, Anthropology, Political Science, International Relations, and English. Upon completion of the major students will be able to integrate writing, research, and presentation skills necessary for the successful completion of a university degree.

Learning Outcomes

Upon completion of this program, students will be able to:

- Examine key social and cultural characteristics of Philippine society.
- Analyze the impact of historical and political conditions in the Philippines on the Filipinx community in the diaspora.
- Compare the intersectional struggles and oppression faced by Filipinos in the Philippines and the diaspora.
- Use Filipino language (Tagalog) to communicate ideas about Philippine culture and the culture of FIlipinxs in the diaspora.
- Apply appropriate methods of inquiry and research for Philippine Studies.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Philippine Studies

Course	Units
Required Courses:	
HIST 37 History of the Philippines	3.0
PHST 40 Contemporary Issues in the Filipino Diaspora	3.0
PHST 20 The Filipino Family	3.0
Please choose nine units from the following courses:	
PHST 30 Philippine Society and Culture Through Film	3.0
PHST 42 Introduction to Philippine Arts	3.0
PHST 50 Filipinx LGBTQ+ Identities and Culture	3.0
ANTH 15 Philippine Culture and Society	3.0
ASAM 8 Filipino American Community	3.0
Please choose 5 or 6 units from the following elective courses:	
PIL 1 Elementary Filipino (Tagalog)	5.0
or PIL 2 Continuation of Elementary Filipino (Tagalog)	5.0
or PIL 10A Conversational Filipino (Tagalog)	3.0
and PIL 10B Conversational Filipino (Tagalog)	3.0
or PIL 10B Conversational Filipino (Tagalog)	3.0
and PIL 10C Intermediate Conversational Pilipino	3.0
PHST 10 Independent Study	1.0 – 3.0
Total:	**23.0 – 24.0**

Filipino (Tagalog) Certificate

The Certificate of Accomplishment in Pilipino provides students, prospective employers, and others with documented evidence of persistence and academic accomplishment in Pilipino (Tagalog). It prepares students for health interpreter and nonprofit positions.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interpret Filipino (Tagalog) oral and written texts in familiar contexts.
- Communicate in Filipino (Tagalog) orally and in writing in familiar contexts using appropriate expressions of respect or formality.
- Examine Philippine literature in relation to historical, social, and cultural influences.
- Explain aspects of Philippine culture.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Filipino (Tagalog)

Course	Units
Required core courses:	
PIL 1 Elementary Filipino (Tagalog)	5.0
PIL 2 Continuation of Elementary Filipino (Tagalog)	5.0
Choose at least 5 units from the following elective courses:	
PIL 10A Conversational Filipino (Tagalog)	3.0
PIL 10B Conversational Filipino (Tagalog)	3.0
PIL 10C Intermediate Conversational Pilipino	3.0
PIL 39A Philipine Literature in Translation: Philippine Literature to 1940	3.0
PIL 39B Philippine Literature in Translation: Literature from 1940 to the Present	3.0
PHST 10 Independent Study	1.0 – 3.0
Total:	**15.0**

Philippine Studies Certificate

A Certificate of Achievement in Philippine Studies introduces students to the complex history and circumstances of the Philippines and the Filipinx people in the diaspora, including a greater awareness and understanding of issues such as economic and social transnationalism, emigration and acculturation, and the power of cultural values and heritage in the process of identity development. This certificate is designed for students who wish to pursue a specialization in Philippine Studies in the following disciplines: Area Studies, Ethnic Studies, History, Sociology, Psychology, Anthropology, Political Science, International Relations, and English. It is also designed for professionals in the public, private, non-profit, and entrepreneurial sectors seeking to strengthen their cultural competencies and ability to engage the largest Asian American population in California. Professional development in Philippine Studies are relevant in various fields, including law, healthcare, education, social services.

Learning Outcomes

Upon completion of this program, students will be able to:

- Examine key social and cultural characteristics of Philippine society.
- Analyze the impact of historical and political conditions in the Philippines on the Filipinx community in the diaspora.
- Compare the intersectional struggles and oppression faced by Filipinxs in the Philippines and the diaspora.
- Use Filipino language (Tagalog) to communicate ideas about Philippine culture and the culture of FIlipinxs in the diaspora.

Minimum time of completion for this certificate is 3 semesters. Completion time will vary based on student preparation, number of classes completed per semester, and availability of courses offered on occasion.

Courses Required for the Certificate of Achievement in Philippine Studies

Course	Units
Required Core Courses:	
HIST 37 History of the Philippines	3.0
PHST 20 The Filipino Family	3.0
Choose two of the following courses:	
PHST 30 Philippine Society and Culture Through Film	3.0
PHST 40 Contemporary Issues in the Filipino Diaspora	3.0
PHST 42 Introduction to Philippine Arts	3.0
PHST 50 Filipinx LGBTQ+ Identities and Culture	3.0
Choose one of the following courses:	
PIL 1 Elementary Filipino (Tagalog)	5.0
PIL 2 Continuation of Elementary Filipino (Tagalog)	5.0
PIL 10A Conversational Filipino (Tagalog)	3.0
PIL 10B Conversational Filipino (Tagalog)	3.0
PIL 10C Intermediate Conversational Pilipino	3.0
Choose one of the following courses:	
ASAM 8 Filipino American Community	3.0
ANTH 15 Philippine Culture and Society	3.0
PHST 10 Independent Study	3.0
Total:	**18.0 – 20.0**

Announcement of Courses

Credit, Degree Applicable Courses:

Philippine Studies

PHST 10. Independent Study (1-3)
Lab-52.5 to 157.5 P/NP available
Recommended Prep: ENGL 1A and (PHST 20 or PHST 30)
Independent Study allows individual students to explore academic interests in Philippine Studies through guided research projects. Students are required to either write a research paper or give a presentation on their work. CSU
UC transferable upon review
Offered Fall and Spring semesters

PHST 20. The Filipino Family (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines traditional and contemporary characteristics of the Filipino family with an emphasis on the impact of colonialism on family dynamics in the Philippines and Filipino communities in the diaspora. Other issues to be discussed in the context of the Filipino family include emigration and immigration, belief systems and faith, the evolution of cultural values, intergenerational conflict, colonial mentality, colorism, sexuality, gender identities, and transnationalism. UC/CSU
Offered Fall semesters

PHST 30. Philippine Society and Culture Through Film (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines various cultural themes, sociopolitical, geographical, and historical factors of Philippine culture and society through cinema. Various cultural themes and sociopolitical influences on the Filipino experience through time discussed in this course include, but are not limited to the following: images of Filipinos, language distribution, interpersonal relations, ideas of self, belief systems, indigeneity, sex roles, the "Filipino Dream", immigration, and alienation. UC/CSU
Elective offered at the department's discretion

PHST 40. Contemporary Issues in the Filipino Diaspora (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary analysis of contemporary, social, political, economic, and cultural issues that significantly affect the Filipino community, including the following areas: identity development, immigration and acculturation, socioeconomic status, labor, racial and ethnic diversity, colorism, gender identity, political empowerment, cultural appropriation, and indigeneity. UC/CSU
Formerly IDST40
Offered Spring semesters

PHST 42. Introduction to Philippine Arts (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of Philippine visual, performing, and material arts in the context of the country's historical and contemporary contexts, from precolonial to contemporary periods. We will explore the role of the arts in cultural and national and global identity construction and representations of Philippine aesthetics in the diaspora. UC/CSU
Formerly IDST 42.
Elective offered at the department's discretion

PHST 50. Filipinx LGBTQ+ Identities and Culture (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines the experiences of the Filipinx LGBTQ+ communities in the Philippines and the diaspora. Using an intersectional approach, topics include, but are not limited to, the histories and legacies of colonization, belief systems and faith, queer cultural values, family dynamics, sexuality, gender identities, struggles for acceptance, liberation, colonial mentality, and contemporary efforts of advocacy and activism by the queer Filipinx community. UC/CSU
Elective offered at the department's discretion

Filipino Language

PIL 1. Elementary Filipino (Tagalog) (5)
Lec-87.5 P/NP available
Recommended Prep: ESL 188 or (completion of any City College or university foreign language course)
Introductory course in Filipino (Tagalog) grammar, composition, and reading. Practice in speaking and understanding Filipino (Tagalog). UC/CSU

PIL 2. Continuation of Elementary Filipino (Tagalog) (5)
Lec-87.5 P/NP available
Prereq: PIL 1 or demonstration of PIL 1 exit skills.
Second semester course. Completion of elementary grammar, composition, and reading; Continued practice in speaking and understanding Filipino (Tagalog). UC/CSU
Offered on occasion

PIL 10A. Conversational Filipino (Tagalog) (3)
Lec-52.5 P/NP available
Beginning Conversational Pilipino. Intensive instruction and practice in spoken Pilipino. CSU

PIL 10B. Conversational Filipino (Tagalog) (3)
Lec-52.5 P/NP available
Recommended Prep: PIL 10A
Intensive instruction and practice in spoken Filipino (Tagalog) CSU

PIL 10C. Intermediate Conversational Pilipino (3)
Lec-52.5 P/NP available
Recommended Prep: PIL 10B
Intensive instruction and practice in spoken Pilipino. CSU
Offered on occasion

PIL 39A. Philippine Literature in Translation: Philippine Literature to 1940 (3)
Lec-52.5 P/NP available
Recommended Prep: ENGL 88 or ESL 188 or readiness for college-level English
Reading and discussion of important works of Philippine literature in English translation. Philippine literature up to 1940. UC/CSU
Offered on occasion

PIL 39B. Philippine Literature in Translation: Philippine Literature from 1940 to the Present (3)
Lec-52.5 P/NP available
Recommended Prep: ENGL 88 or ESL 188 or readiness for college-level English
Reading and discussion of important works of Philippine literature in English translation. Philippine literature up to 1940. UC/CSU
Offered on occasion

Related Courses

ANTH 15. Philippine Culture and Society (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course introduces students to the peoples and cultures of the Philippines and the impact of Eastern and Western civilizations on the development of its peoples; emphasis on the ways of life in Philippine rural and urban areas and the cultures of its diverse ethnolinguistic communities. UC/CSU
ANTH 15 Studies the development of Philippine peoples and culture using the perspective of anthropology and its sub-disciplines in archeology, linguistics, and geography, and the influence of colonialism on the science of anthropology and on country's cultural development
Offered on occasion

ASAM 8. Filipino American Community (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Ethnic Studies introduction to experiences, histories, and contributions of Filipina/o Americans, past and present. Examination of US history and government through lived-experiences, critical events, political and social struggles of Filipina/os, immigrant and US born. Self-determination, liberation, white supremacy, US colonial and neocolonial history, immigration, economic and educational opportunities, family, community, political and social heritage. Community produced theory and knowledge. UC/CSU
Elective offered at the department's discretion

HIST 37. History of the Philippines (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
This course covers the historical development of the Philippines from the pre-colonial period to present day. The evolution of national culture, political and social institutions, and foreign relations will also be examined. UC/CSU

IDST 14. American Cultures in Literature and Film (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary survey of literary and cinematic works of fiction, drama, non-fiction and poetry that investigates unity in diversity in the shifting trajectories of American identities and interrelationships. Groups featured to assess their interactive contributions to American cultures include Native-, European-, African-, Latin-, Asian-Americans, and Pacific Islanders. UC/CSU
Offered on occasion

IDST 37. Introduction to Ethnic Studies (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to concepts, theories, methodologies and social policy related to the history, culture, concerns, and conditions of the field of Ethnic Studies. Employs Critical Race Theory, Intersectionality, and Indigenous Methodologies to analyze and articulate cultural, political, and economic practices and institutions that support or challenge

racism, racial and ethnic inequalities, and patterns of interaction between various racial and ethnic groups. UC/CSU
C-ID SOCI 150
Crosslisted with ETHN 37

IDST 45. Pacific Islanders in the United States (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines Pacific Islander migrations to the United States mainland including the history, culture, and politics of Hawai'i and U.S. Pacific territories. It explores indigenous cultures and American experiences of Pacific Islanders from Guam, American Samoa, Palau, Marshall Islands, Fiji, Samoa, Tonga, Tahiti, New Zealand, and Australia. UC/CSU
Cross listed with ETHN 45.
Offered on occasion

IDST 46. Fa'a Pasefika: Interdisciplinary Cultural Expressions of Oceania (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of traditional and contemporary art across Oceania (Pacific Islands). Emphasis on literature, dance, music, visual arts, film, and museums. Using an interdisciplinary and cross-cultural approach, the course explores the underlying unity of Pacific cultures, including their engagement with both western and non-western societies, colonization, and diasporic communities. UC/CSU
Offered Fall and Spring semesters

IDST 80A. Diversity and Social Justice: Racism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of race-based oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about racism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80C. Diversity and Social Justice: Sexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness raising analysis and evaluation of sexism on individual, institutional, and cultural levels in the United States. Expanding one's knowledge about sexism, increasing personal awareness of one's own sexism and assumptions, and the application of this knowledge and awareness for individual and social change are emphasized. CSU
Offered Fall semesters

IDST 80F. Diversity and Social Justice: Class and Classism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of class oppression and classism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about class, class oppression and classism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

LGBT 50. LGBT Communities of Color in the U.S. (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of the histories, power dynamics, intersectionalities, cultures, communities and resistance of LGBTQ+ Black, Latinx, Chicanx, Indigenous and API people in the U.S. UC/CSU
Formerly Lesbian/Gay/Bisexual/Transgender/Communities of Color in the U.S.
Offered Spring semesters

PSYC 23. Psychology of Race and Ethnic Relations (3)
Lec-52.5 P/NP available
An exploration of the experiences, theories, and research concerning issues of race and ethnicity as they relate to individual and group behavior, emotion, and thinking, including attitudes, identity development, racism, privilege, coping strategies, and intersectional experiences. Psychohistorical analysis of the experiences of African Americans, Asian Americans, Latino(a) Americans, and Native Americans. UC/CSU

Philosophy

Office: Batmale 656
Phone Number: (415) 239-3330
Web Site: *www.ccsf.edu/socialsci*

Announcement of Curricula

Philosophy Major (AA-T)

Philosophy is the study of the most fundamental questions of life, reality, knowledge, and value. Through the study of philosophy, students are trained in the skills of conceptual analysis and argument comprehension, construction, and evaluation. It provides an intensive introduction to the science of logic, with emphasis on the concept of proof and symbolic systems for calculating truth-value relationships. The philosophy major will also introduce students to philosophical theories in the tradition from its ancient beginnings to its contemporary developments. The AA-T in Philosophy offers students a comprehensive lower division program in philosophy. The AA-T prepares students who wish to transfer and pursue a baccalaureate degree in Philosophy, particularly at California State University and University of California campuses.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze major theories of perennial influence in the main areas of philosophy, metaphysics, epistemology, and value theory.
- Analyze important philosophical issues and concepts, and evaluate alternative views with respect to them.
- Apply the principles of logical reasoning, both deductive and inductive.
- Construct fluent philosophical arguments.
- Apply critical reasoning skills to identify, evaluate, and respond to arguments.

Students who wish to earn the Associate in Arts for Transfer (AA-T) in Philosophy must complete 60 CSU transferable units with at least

a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Philosophy

Course	Units
Required Core Courses	
PHIL 12A Symbolic Logic	5.0
PHIL 2 Introduction to Philosophy: Morality and Politics	3.0
or PHIL 4 Introduction to Philosophy: Knowledge and Its Limits.	3.0
List A: Choose one of the following courses or any unselected course from the core:	
PHIL 25A Ancient Philosophy	3.0
PHIL 25C Modern Philosophy Through Kant	3.0
List B: Choose three of the following courses or any unselected courses from the core or List A:	
PHIL 40 Introduction to Logic: Critical Thinking	3.0
HIST 4A Western Civilization	3.0
HIST 4B Western Civilization	3.0
PSYC 1 General Psychology	3.0
POLS 3 Political Theory	3.0
Total:	**20.0**

Announcement of Courses

Credit, Degree Applicable Courses:

Philosophy courses may be taken in any order. Both PHIL 2 & 4 are recommended as introductory courses.

PHIL 2. Introduction to Philosophy: Morality and Politics (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An examination of such questions as: Are there conditions under which value judgments can be rationally defended? If there are such grounds, what are they? If not, what consequences, if any, follow from ethical skepticism? Can value judgments about individuals or societies be justified on rationally acceptable grounds? Application of theories to moral problems. UC/CSU
C-ID PHIL 120

PHIL 4. Introduction to Philosophy: Knowledge and Its Limits (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
The tools and techniques of philosophical reasoning: reading argumentative prose; analyzing conceptual models; writing critical essays. Problems of knowledge: the criteria of reliable knowledge; the formulation and justification of beliefs the sources and limits of knowledge; beliefs about the physical world, the past and future, and other minds. Critical standards applied to related metaphysical issues: theism, mind and self-identity, determinism. UC/CSU
C-ID PHIL 100

PHIL 12A. Symbolic Logic (5)
Lec-87.5
Prereq: Intermediate algebra or higher
The study of logical relationships by way of models and procedures in a symbolic system. The concept of proof and the demands of formal proofs. Methods of demonstrating logical relationships, including truth tables, derivations in sentence and predicate logic, and semantic interpretations. The relation between conventional languages and symbolic encodings. A selection of related theoretical topics, including proofs of soundness and consistency of the calculi, and elementary set theory. UC/CSU
C-ID PHIL 210

PHIL 25A. Ancient Philosophy (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
The origins of the philosophical-scientific tradition. Early attempts at rational explanations of the natural world. Socrates and the foundations of moral criticism. Plato: His articulation of the problems of knowledge, his contributions to moral and political theory. Aristotle: His organization of scientific inquiry, formulation of ethical theory, and development of the science of logic. The philosophical tradition after Aristotle. UC/CSU
C-ID PHIL 130
Offered Fall semesters

PHIL 25C. Modern Philosophy Through Kant (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
The philosophical tradition from the Renaissance to the nineteenth century. Emphasis on new scientific models of human knowledge and human nature formulated in reaction to scientific and social revolutions. Positions of thinkers such as Descartes, Hume, Kant on basic questions: Can anything be known with certainty? Are there any justifiable moral principles? Is there any purpose to existence? UC/CSU
C-ID PHIL 140
Offered Spring semesters

PHIL 40. Introduction to Logic: Critical Thinking (3)
Lec-52.5
A course in practical reasoning. How to distinguish between reasons that are rational and those that are not. Methods of evaluating arguments that will lead to truth. UC/CSU

Photography

Office: Visual Arts 160
Phone Number: (415) 239-3422
Web Site: *www.ccsf.edu/photo*

Announcement of Curricula

General Information

The City College of San Francisco's Photography Department is one of the oldest and largest programs in the country, with over two dozen courses and thirty-plus instructors. We offer a broad choice of classes from History and Aesthetics of Photography, Advanced B&W Darkroom Techniques, and Advanced Studio Lighting to Photoshop, Mixed Media and Business Practices of Photography.

Our faculty and staff consist of experienced professionals who create

an environment that encourages creativity, technical aptitude, and critical thinking. Whether your interest is as a fine artist, commercial photographer, or enthusiast, we will provide the means and guidance that will help you achieve your goals.

Students who plan to continue as photography majors at the university are advised to review major requirements specific to their transfer university on ***www.assist.org***.

Career Opportunities

- Commercial Photography
- Portrait Photography
- Fine Art Photography
- Editorial Photography
- Documentary Photography
- Photographic Retouching
- Photo Assisting
- Digital Imaging

Photography Major (AS)

The Associate of Science Degree in Photography is designed so that students may satisfy the requirements for graduation from the College, transfer to a four-year program, or go to work directly in the field. The program includes significant laboratory components that provide students the opportunity to work with professional equipment and software in real world facilities to prepare them for professions in applied photography and related industries.

Learning Outcomes

Upon completion of this program, students will be able to:

- Employ the traditional tools and techniques of photography.
- Use digital hardware and software technologies in photography.
- Apply design concepts and iterative processes of photography.
- Apply specific photographic business practices.

Degree Requirements. Students who wish to earn the Associate in Science in Photography (AS) must complete required units with at least a 2.0 grade point average. Each course in the major must be completed with a grade of "C" or better.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Photography

Course	Units
Required	
PHOT 51 Beginning Photography*	3.0
PHOT 52 Photographers and Their Images	1.0
PHOT 60A Photoshop for Photographers 1*	3.0
PHOT 80 Outdoor & Ambient Lighting	3.0
PHOT 85A Beginning Lighting Techniques	4.0
PHOT 99 Business Practices of Photography	3.0
PHOT 100 Design Fundamentals*	3.0
or DSGN 101 Design Fundamentals*	3.0
or VMD 101 Design Fundamentals*	3.0
PHOT 130 Portfolio Production	3.0
PHOT 83 View Camera Techniques	2.0
or PHOT 102C Phase One Capture One	2.0

* Students may satisfy this requirement by passing an exam or providing college transcripts.

Choose 1 course from the following	
PHOT 81A B&W Film/Darkroom 1	4.0
PHOT 81D Intermediate Photo: Digital	4.0
Choose 1 course from the following	
PHOT 40 Photography as Activism	3.0
PHOT 50A History & Aesthetics Pre-1945	4.0
PHOT 50B History & Aesthetics Since 1945	4.0
Choose 1 course from the following	
PHOT 102A Architectural Photography	2.0
PHOT 102B Documentary/News Photography	2.0
PHOT 102D Beginning Drone Piloting and Imaging	2.0
Choose 1 course from the following	
PHOT 81B B&W Film/Darkroom 2	4.0
PHOT 60B Photoshop for Photographers 2	3.0
Choose one of the following advanced lighting courses	
PHOT 85B Advanced Studio Lighting Techniques	4.0
PHOT 90 Portraiture	4.0
PHOT 92 Fashion Photography	4.0
Choose at least 2 units from the following	
PHOT 67 Digital Negatives for Darkroom Printing	3.0
PHOT 101C Self Portraiture	1.0
PHOT 101D Landscape Photography	1.0
PHOT 101E Environmental Portraiture	1.0
PHOT 101G Pinhole Photography	1.0
PHOT 101P Plastic Camera Photography	1.0
PHOT 101S Introduction to Image Scanning	1.0
PHOT 140 Industry Internship	1.0 – 2.0
PHOT 145 College Internship	1.0 – 2.0
PHOT 200A Photography Service Learning	3.0
PHOT 200B Photography Service Learning II	3.0
DSGN 105 Design Thinking	1.5
DSGN 110 Design Drawing Techniques	1.5
or VMD 112 Design Drawing Techniques	1.5
DSGN 150/VMD 118 Color in Design	3.0
or VMD 118/DSGN 150 Color in Design	3.0
Total:	**43.0 – 46.0**

Architectural Photography Certificate

This certificate provides instruction in architectural photography and the use of large format cameras. Additionally, hands-on experience is gained in the manipulation of ambient and artificial light sources and the application of professional lighting techniques. Students completing this certificate program will be qualified for employment in the fields of architectural photography, real estate photography, commercial photography, editorial photography, and to work as a photographer's assistant.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the traditional tools and techniques of photography
- Apply design concepts inspired by the aesthetics of architecture
- Apply the techniques and aesthetics of light to the requirements of photography
- Apply digital hardware and software technologies used in the field of photography

Students must complete 5 of 7 courses at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Architectural Photography

Course	Units
Required	
PHOT 51 Beginning Photography	3.0
PHOT 100 Design Fundamentals	3.0
PHOT 80 Outdoor & Ambient Lighting	3.0
PHOT 85A Beginning Lighting Techniques	4.0
PHOT 102A Architectural Photography	2.0
Choose 1 course from the following	
PHOT 83 View Camera Techniques	2.0
PHOT 102C Phase One Capture One	2.0
PHOT 102D Beginning Drone Piloting and Imaging	2.0
Recommended	
ARCH 31B History of Architecture II	3.0
Total:	**17.0**

Black and White Darkroom Photography Certificate

This certificate program, built on the basics of photography and design, includes hands-on instruction in traditional darkroom techniques with an emphasis on high-end black and white printing. Students will build a personal portfolio of work and achieve proficiency in what has now become an artisanal skill. This certificate prepares students for transfer to 4-year programs of study in the arts, particularly at fine arts colleges. Students completing this certificate program will be qualified to work in custom photography labs, operate a darkroom facility and to work for professional fine artists.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the traditional tools and techniques of black and white print photography.
- Apply design concepts to create and evaluate black and white photographic images using iterative processes.
- Analyze the characteristics of various films, papers and chemicals and how they may react to different light and development techniques in black and white print photography.
- Process black and white photographic prints and negatives according to existing archival standards.
- Produce a portfolio of high quality black and white prints.

Students should complete a minimum of 3 of 5 courses at City College of San Francisco.

It is recommended but not required that courses be taken within a 4-year period.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Black and White Darkroom Photography

Course	Units
Required	
PHOT 51 Beginning Photography	3.0
PHOT 81A B&W Film/Darkroom 1	4.0
PHOT 100 Design Fundamentals	3.0
Choose 6-8 units from the following	
PHOT 52 Photographers and Their Images	1.0
PHOT 67 Digital Negatives for Darkroom Printing	3.0
PHOT 81B B&W Film/Darkroom 2	4.0
or PHOT 81C B&W Film/Darkroom 3	4.0
PHOT 83 View Camera Techniques	2.0
PHOT 130A Portfolio Production 1	3.0
PHOT 130B Portfolio Production 2	3.0
Total:	**16.0 – 18.0**

Digital Photography Certificate

This certificate provides a foundation in photography and design, and includes in-depth instruction in image manipulation technologies (i.e. Adobe Lightroom™, Photoshop™ & Capture One™). Students completing this certificate program will be qualified for employment in fields that rely on post-production and retouching such as wedding photography, product photography, fashion photography, real-estate photography, event photography, and portrait photography. This certificate is also recommended for students seeking to upgrade skills for career advancement or transition.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the traditional tools and techniques of photography.
- Apply design concepts in an artistic iterative process.
- Apply digital hardware and software technologies used in the field of photography.

Students must complete 3 of 5 courses at City College of San Francisco.

It is recommended but not required that courses are taken within a 4-year period.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Digital Photography

Course	Units
Required	
PHOT 51 Beginning Photography	3.0
PHOT 60A Photoshop for Photographers 1	3.0
PHOT 81D Intermediate Photo: Digital	4.0
Choose one course from the following	
PHOT 100 Design Fundamentals	3.0
VMD 101 Design Fundamentals	3.0
DSGN 101 Design Fundamentals	3.0
Choose one of the following options	
Option 1	
PHOT 60B Photoshop for Photographers 2	3.0
or Option 2: Four units from the following	
PHOT 102C Phase One Capture One	2.0
PHOT 102D Beginning Drone Piloting and Imaging	2.0
PHOT 102E Capture One Pro	2.0
Total:	**16.0 – 17.0**

Motion Photography Studio or Field Certificate

This certificate provides hands-on instruction in motion and still photography using cameras with video capability in the studio or in the field, emphasizing mixed lighting on location and controlled studio

lighting. Students will gain the aesthetic and technical skills necessary to professionally plan, capture, produce and deliver photographic stills and videos to clients or for electronic delivery. Certificate completion prepares students for employment in the following fields of photography: wedding and events, real-estate, advertising, public relations, corporate presentations, documentary and photojournalism, athletics, travel, product and food photography and to work as a photography assistant.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the techniques of location-based photography to create stills and videos for electronic delivery.
- Analyze and edit still and video packages and presentations.
- Apply the proper use of lighting, sound and aesthetic techniques to field and studio photography and video.
- Evaluate the effectiveness of presentations for motion photography.
- Apply the standard workforce protocols and communication skills used in the video and photographic industry.

Students must complete at least four courses at City College of San Francisco. All courses must be completed within four years.

The minimum time for completion of this certificate is two semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Motion Photography Studio or Field

Course	Units
Required	
BCST 119 Digital Media Skills	3.0
PHOT 51 Beginning Photography	3.0
PHOT 52 Photographers and Their Images	1.0
Choose 1 course from the following	
PHOT 80 Outdoor & Ambient Lighting	3.0
PHOT 85A Beginning Lighting Techniques	4.0
Choose 1 course from the following	
BCST 140 Studio Video Production	3.0
BCST 141 Field Video Production	3.0
Choose 1 course from the following	
BCST 144A Video Editing Premiere Intro	4.0
CINE 56 Introduction to Digital Film Editing	4.0
Total:	**17.0 – 18.0**

Photography Criticism Certificate

This certificate program provides instruction in the history of photography from its inception to the current day. This is combined with research, critical analysis and writing skills. Students completing this certificate program will be qualified for entry-level employment at museums, galleries, and community exhibition venues such as libraries, municipal and public works projects, and NGO's.

Learning Outcomes

Upon completion of this program, students will be able to:

- Relate photographic movements and achievements to other visual media and to society.
- Analyze and critique a structure for evaluating visual images.
- Compose research-based, organized essays that are driven by an arguable thesis and that employ critical thinking as they pertain to photographic criticism.
- Critically evaluate the authority and relevance of information sources as they pertain to photographic images.

The minimum time for completion of this certificate is two semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Photography Criticism

Course	Units
Required	
PHOT 50A History & Aesthetics Pre-1945	4.0
PHOT 50B History & Aesthetics Since 1945	4.0
PHOT 52 Photographers and Their Images	1.0
ENGL 1A College Reading and Composition	4.0
LI S 10 Introduction to Research Skills	1.0
Recommended	
PHOT 40 Photography as Activism	3.0
IDST 3 Introduction to Museum Studies	3.0
LIBR 57 Online Research Strategies	2.0
ENGL 1B Writing about Literature	4.0
ENGL 1C Writing about Nonfiction	4.0
Total:	**14.0**

Photography Digital Technician Certificate

Completion of this program helps students prepare for a permanent or freelance position as a Digital Technician. A "Digital Tech" is an important part of a commercial photography team who is responsible for camera handling, file transfer, management and backup, post production preview, and set assisting.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply digital hardware and techniques of photography necessary to fulfill a role as a digital technician.
- Use digital software management and editing tools needed to work as a digital technician.
- Employ a range of lighting techniques in cooperation with photographers and lighting assistants in the role as a digital technician.

Students must complete 4 of the 6 required courses at City College of San Francisco. Students may take a challenge test to waive the requirement with prior experience or an equivalent college level course.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Photography Digital Technician

Course	Units
Required	
PHOT 51 Beginning Photography	3.0
PHOT 60A Photoshop for Photographers 1	3.0
PHOT 60B Photoshop for Photographers 2	3.0
PHOT 81D Intermediate Photo: Digital	4.0
PHOT 85A Beginning Lighting Techniques	4.0
Choose one of the following	
PHOT 102C Phase One Capture One	2.0
PHOT 102E Capture One Pro	2.0
Recommended	
PHOT 140 Industry Internship	1.0 8.0
Total:	**19.0**

Photography Studio Practice Certificate

This certificate provides hands-on instruction in large format cameras, electronic strobe equipment and lighting techniques as applied to professional studio and/or portrait photography. Includes a foundation in design. Students completing this certificate program are prepared for an entry-level position as a photographer's assistant in the fields of commercial photography, product photography, portrait photography, fashion photography, food photography, graduation photography and public relations.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the traditional tools and techniques of photography.
- Apply design concepts to the requirements of studio photography.
- Apply the techniques and aesthetics of light to studio photography.
- Apply corrective camera movements to achieve control over the photographic process.

Students must complete 3 of 5 courses at City College of San Francisco.

All courses must be taken within a 4-year period.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Photography Studio Practice

Course	Units
Required	
PHOT 51 Beginning Photography	3.0
PHOT 100 Design Fundamentals	3.0
PHOT 85A Beginning Lighting Techniques	4.0
Choose one of the following	
PHOT 102C Phase One Capture One	2.0
PHOT 83 View Camera Techniques	2.0
Choose one of the following	
PHOT 85B Advanced Studio Lighting Techniques	4.0
PHOT 90 Portraiture	4.0
Recommended	
PHOT 52 Photographers and Their Images	1.0
PHOT 99 Business Practices of Photography	3.0
PHOT 81D Intermediate Photo: Digital	4.0
PHOT 60A Photoshop for Photographers 1	3.0
PHOT 60B Photoshop for Photographers 2	3.0
PHOT 130 Portfolio Production	3.0
Total:	**16.0**

Portrait Lighting Certificate

This certificate provides hands-on instruction in both ambient and electronic strobe equipment and lighting techniques as applied to professional portrait photography. Includes a foundation in design. Students completing this certificate program will be qualified for employment in the fields of portrait photography, wedding photography, public relations, event and fashion photography, documentary photography, photojournalism, sports photography, travel photography, and to work as a photographer's assistant.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the traditional tools and techniques of photography.
- Apply portrait lighting design concepts and principles to photographic images using iterative processes.
- Apply the proper use of the techniques and aesthetics of light to the requirements of portrait photography.
- Apply techniques for portraiture posing, 3-light settings and lighting ratios.

Students must complete 3 of 5 courses at City College of San Francisco.

All courses must be taken within a 4-year period.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Portrait Lighting

Course	Units
Required	
PHOT 51 Beginning Photography	3.0
PHOT 100 Design Fundamentals	3.0
PHOT 80 Outdoor & Ambient Lighting	3.0
PHOT 85A Beginning Lighting Techniques	4.0
PHOT 90 Portraiture	4.0
Total:	**17.0**

Reportage Photography Certificate

This certificate provides a foundation in reportage photography and includes instruction in ambient and electronic strobe equipment, and lighting techniques. Students completing this certificate program will be qualified for employment in the fields of editorial photography, photojournalism, documentary and social documentary photography, combat photography, public relations, and travel photography.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the traditional tools and techniques of photography.
- Apply aesthetics and principles of design in an iterative process.
- Apply the techniques and aesthetics of light to reportage photography.
- Create successful visual storytelling.
- Apply specific photographic business practices.

Students must complete 4 out of 6 courses at City College of San Francisco. It is recommended, but not required, that courses be taken within a 4-year period.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Reportage Photography

Course	Units
Required	
PHOT 51 Beginning Photography	3.0
PHOT 52 Photographers and Their Images	1.0
PHOT 80 Outdoor & Ambient Lighting	3.0
PHOT 85A Beginning Lighting Techniques	4.0
PHOT 100 Design Fundamentals	3.0
PHOT 102B Documentary/News Photography	2.0
Total:	**16.0**

Studio Lighting Certificate

This certificate provides hands-on instruction in electronic strobe equipment and lighting techniques as applied to professional studio photography. Includes a foundation in design. Students completing this certificate program will be qualified for employment in the fields of commercial photography, product photography, portrait photography, event and fashion photography, food photography, and entry-level positions in medical and forensic photography

Learning Outcomes

Upon completion of this program, students will be able to:

- Use the traditional tools and techniques of photography.
- Apply design concepts using iterative processes to create and evaluate photographic images.
- Apply the proper use of the techniques and aesthetics of light to the requirements of photography.
- Apply specific photographic business practices to determine fees and licensing.

Students must complete 3 of 5 courses at City College of San Francisco.

All courses must be taken within a 4-year period.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Studio Lighting

Course	Units
Required	
PHOT 51 Beginning Photography	3.0
PHOT 100 Design Fundamentals	3.0
PHOT 85A Beginning Lighting Techniques	4.0
PHOT 85B Advanced Studio Lighting Techniques	4.0
PHOT 99 Business Practices of Photography	3.0
Recommended	
PHOT 52 Photographers and Their Images	1.0
PHOT 80 Outdoor & Ambient Lighting	3.0
PHOT 90 Portraiture	4.0
Total:	**17.0**

Collaborative Design Certificate*

The certificate program in Collaborative Design provides students with a strong foundation in multidisciplinary approaches to design and collaboration.

*See Maker Studies section of the catalog.

Announcement of Courses

Photography

Credit, Degree Applicable Courses:

PHOT 40. Photography as Activism (3)
Lec-52.5, Lab-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Photography can be used as a powerful tool for social change. This course examines the historic and contemporary role that photography has played in activist activities throughout the United States and abroad. UC/CSU

PHOT 50A. History & Aesthetics Pre-1945 (4)
Lec-70, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course will address the history of photography from its invention until 1945. Included are discussions and illustrated lectures of the lives and achievements of important photographers and processes of the time. Students visit museums to view photographs and participate in class discussions. UC/CSU

PHOT 50B. History & Aesthetics Since 1945 (4)
Lec-70, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course examines various aspects of photography, including photographers, photographs, and technical innovations, within their historical, social and cultural contexts. Although students will study photography as it has been applied to journalism, science, fashion, advertising, etc., emphasis will be on photography as art. UC/CSU
Offered Fall and Spring Semesters

PHOT 51. Beginning Photography (3)
Lec-35, Lab-70, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to photography aesthetic and technical skills, including manual functions of digital cameras, image creation and capture, file management and workflow, image adjustment and digital printing. The course will also introduce students to important historical and contemporary practitioners. Group critiques and practical labs using the camera and Adobe Software will help develop ideas and technical skills. This course is a major and certificate requirement. UC/CSU
Students should own a 35mm digital camera with manual operations such as ISO, shutter and aperture or arrange to borrow one from the department.

PHOT 52. Photographers and Their Images (1)
Lec-17.5 P/NP available
Professional photographers present and discuss their work in technical and aesthetic terms, a unique opportunity for photography students to be exposed to renowned photographers and discus topics in question and answer format. CSU

PHOT 60A. Photoshop for Photographers 1 (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: CNIT 100M or PHOT 51
An introductory Photoshop course that emphasizes the technical aspects of digital post production workflow in photography. UC/CSU
Formerly Beginning Photoshop
Offered Fall and Spring Semesters

PHOT 60B. Photoshop for Photographers 2 (3)
Lec-35, Lab-70 P/NP available
Prereq: PHOT 60A or VMD 154
Recommended Prep: PHOT 81D
An in-depth exploration of Photoshop and related tools that will provide students with skills to create expressive images and explore various methods of output. Students will integrate available equipment and resources in preparation for a rapidly changing field. UC/CSU
Formerly Intermediate Photoshop.
Offered Spring semesters

PHOT 67. Digital Negatives for Darkroom Printing (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: PHOT 51
Recommended Prep: PHOT 60A or PHOT 81D or PHOT 81A
Creation of film negatives from digital files for use in a traditional darkroom. Students will perfect their negatives in the digital realm, output them using digital techniques, and then print them using traditional, historical and alternative printing methods in the darkroom. CSU
Offered on occasion

PHOT 80. Outdoor & Ambient Lighting (3)
Lec-52.5, Lab-17.5, field trips P/NP available
Prereq: PHOT 51 or demonstration of exit skills
Recommended Prep: PHOT 100
A hands-on, how-to course in managing available light and light on location. Emphasis is on outdoor and ambient light, location light; designed to relate lighting to photo-aesthetics and visual communication. CSU
Offered Fall and Spring Semesters

PHOT 81A. B&W Film/Darkroom 1 (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Recommended Prep: PHOT 51 and (PHOT 100 or VMD 101 or DSGN 101)
Introduction to the principles of black and white film photography, including the development of technical and aesthetic skills, elements of design and composition, camera technology, and an introduction to film processing and darkroom printing. Emphasis on critical issues in photography within the context of contemporary art, contemporary media, and photo history. The department may provide some materials and camera access. UC/CSU
Formerly Intermediate B&W Film/Darkroom
Offered Fall Semesters

PHOT 81B. B&W Film/Darkroom 2 (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Prereq: PHOT 81A or demonstration of exit skills
Building off of skills attained in 81A, students learn intermediate principles of black and white film photography, including the further development of technical and aesthetic skills, elements of design and composition, camera technology and intermediate film processing and darkroom printing. Emphasis on creating portfolios within the context of contemporary art, contemporary media, and photo history. The department may provide some materials and camera access. CSU
Formerly "Advanced Black & White Darkroom"
Offered Spring semesters

PHOT 81C. B&W Film/Darkroom 3 (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Prereq: PHOT 81B or demonstration of exit skills
Building off of skills attained in 81B, students learn advanced principles of black and white film photography, including the further development of technical and aesthetic skills, elements of design and composition, camera technology and advanced-level film processing and darkroom printing. Emphasis on creating portfolios within the context of contemporary art, contemporary media, and photo history. The department may provide film cameras. CSU

PHOT 81D. Intermediate Photo: Digital (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Prereq: PHOT 51
Recommended Prep: PHOT 100 and (ESL 188 or readiness for college- level English)
A digital photography course advancing the technical and creative concepts introduced in Beginning Photography. Topics include: Digital camera configurations, exposure control, workflow management, non-destructive editing, image manipulation and enhancement, archiving, printing options, and presentation. Discussions on visual literacy and contemporary photography as well as review of student work are integral. CSU
Offered Fall Semesters

PHOT 83. View Camera Techniques (2)
Lec-35, Lab-17.5, field trips P/NP available
Prereq: PHOT 51 or demonstration of exit skills
Recommended Prep: PHOT 81A and PHOT 80
An introductory course in large format photography for professional and artistic use. Students will explore the unique applications of a manual 4x5 view camera, including perspective correction, and selective focus. Course will cover techniques needed to properly expose and process large format film, and produce digital files from negatives. Cameras and accessories are available to students. CSU
Offered on occasion

PHOT 85A. Beginning Lighting Techniques (4)
Lec-52.5, Lab-52.5 P/NP available
Prereq: PHOT 51
Recommended Prep: Completion of or concurrent enrollment in: PHOT 100 or VMD 101 or DSGN 101
Through demonstration and hands-on experience students explore the basic and technical use of ambient, tungsten and electronic flash illumination as it is used in photography. Students will work with a variety of lighting equipment and accessories. CSU
Offered Fall and Spring Semesters

PHOT 85B. Advanced Studio Lighting Techniques (4)
Lec-52.5, Lab-52.5
Prereq: PHOT 85A and (PHOT 100 or DSGN 101 or VMD 101) or demonstration of exit skills
Recommended Prep: PHOT 83 or PHOT 102C; PHOT 60A
Studio lighting for aspiring commercial and fine art photographers with emphasis on technique and aesthetics. Students will have hands-on experience with tungsten lights, LED lights and studio strobes. Employing classic and current lighting techniques at an advanced level, students will work individually and in groups. CSU
Offered Fall semesters

PHOT 90. Portraiture (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Prereq: PHOT 85A; Completion of or concurrent enrollment in: PHOT 100 or VMD 101 or DSGN 101
An advanced studio lighting course introducing students to the technical, aesthetic and historical aspects of photographic portraiture. Students have hands-on experience with classic and contemporary lighting techniques using constant studio light sources and strobes. Students work individually and in teams. CSU
Offered Spring semesters

PHOT 92. Fashion Photography (4)
Lec-52.5, Lab-52.5, field trips P/NP available
Prereq: PHOT 85A
A hands-on photography course exploring the technical and aesthetic components of fashion photography that include posing, composition and lighting. Emphasis on camera handling as well as fashion dress, makeup and hairstyling. CSU
Offered on occasion

PHOT 99. Business Practices of Photography (3)
Lec-52.5 P/NP available
A business course for photographers. Students will learn practical and essential business skills such as marketing, self-promotion strategies, networking, pricing, and estimating taxes. CSU
Offered Fall semesters

PHOT 100. Design Fundamentals (3)
Lec-35, Lab-70, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Foundational design course, covering the theories, processes, vocabulary, and techniques common to visual design disciplines. Students will develop and apply their knowledge through analysis, critique and individual and collaborative exercises and projects. UC/CSU
Offered Fall and Spring Semesters

PHOT 101C. Self Portraiture (1)
Lec-17.5, field trips P/NP available
Prereq: PHOT 51
This course explores the challenges and benefits associated with photographing oneself. Public versus private portraiture is thoroughly examined. Emphasis is placed on the study and application of North Light specifically as it applies to dimensional devices. CSU
Offered on occasion

PHOT 101D. Landscape Photography (1)
Lec-17.5, field trips P/NP available
Prereq: PHOT 51
Techniques leading to a creative treatment of landscape photography using film or digital media. Illustrated lectures of important historical and contemporary image-makers. Emphasis on photographic fieldwork, interpretive lighting, design, camera technique, post production processing, and filtration to support personal vision and conceptual ideas. CSU
Offered on occasion

PHOT 101E. Environmental Portraiture (1)
Lec-17.5, field trips P/NP available
Prereq: PHOT 51
Recommended Prep: PHOT 80 or PHOT 85A or PHOT 100
An introduction to photographing people in their own environments with an emphasis on creating powerful portraits while working with and highlighting their personalities. Use of available indoor and outdoor light in multiple combinations. Working successfully with subjects. Analysis and application of lighting techniques for child, family, group and candid portraiture. CSU
Offered on occasion

PHOT 101G. Pinhole Photography (1)
Lec-17.5, field trips P/NP available
An in-depth exploration of the photographic image created through the design, construction, and use of pinhole cameras. Students will experiment with paper negatives, litho film, conventional black and white film, and contact printing methods. Demonstrations and hands-on experience and field work are emphasized. CSU
Offered on occasion

PHOT 101P. Plastic Camera Photography (1)
Lec-17.5, field trips P/NP available
An exploration of creating photographic images with plastic/toy cameras. Students will learn the differences between various models of plastic cameras, how to modify their cameras for optimum results, color and black and white films, working with limited exposure controls and both natural light and flash. The history of plastic cameras and examples of many artists' work in the medium will also be covered. CSU
Offered on occasion

PHOT 101S. Introduction to Image Scanning (1)
Lec-17.5, field trips P/NP available
Recommended Prep: PHOT 60A
A basic course introducing scanning hardware, software and techniques used in professional settings. Scanning transparent, reflective, and three-dimensional originals, including retouching and optimizing scanned files for various uses. CSU
Offered on occasion

PHOT 102A. Architectural Photography (2)
Lec-35, Lab-17.5, field trips P/NP available
Prereq: PHOT 51 and (PHOT 100 or VMD 101 or DSGN 101) and (PHOT 85A or PHOT 80)
Commercial and fine art applications specifically related to issues of architectural perspective control, lighting, various camera lenses, and camera accessories. CSU
Offered Spring Semesters

PHOT 102B. Documentary/News Photography (2)
Lec-35, Lab-17.5 P/NP available
Prereq: PHOT 80 or PHOT 85A
Recommended Prep: PHOT 100 or VMD 101 or DSGN 101
This course explores photojournalism and documentary photography while addressing business and legal issues. CSU
Offered Spring semesters

PHOT 102C. Phase One - Capture One (2)
Lec-35, field trips P/NP available
Prereq: PHOT 51 and PHOT 85A
Recommended Prep: PHOT 83 and PHOT 81D; (PHOT 90 or PHOT 85B)
A digital photography course to help students prepare for the Phase One Certified Professional (POCP) Exam. Topics include Phase One medium format digital camera handling & configurations, tethered and non-tethered capture, device calibration, file processing, image manipulation and enhancement and output using Capture One software. CSU
Offered Fall and Spring Semesters

PHOT 102D. Beginning Drone Piloting and Imaging (2)
Lec-35, field trips P/NP available
An introduction to using unmanned aerial systems (UAS) or drones. This course is designed to give the student the ability to safely and competently fly a drone. Emphasis is placed on safety, equipment selection, and flying. Provides a starting point to drone data collection for multiple disciplines and careers. CSU
Essential equipment needed for this course will be provided by the college.
Offered Fall Semesters

PHOT 102E. Capture One Pro (2)
Lec-35 P/NP available
Prereq: PHOT 51
Recommended Prep: PHOT 81D
Capture One Pro is a professional level imaging software. Topics include DSLR tethering and capture, importing and processing workflow for RAW files, sessions, catalogs, color correcting, exporting,

global and selective adjustments. This is a companion class to medium format Phase One camera-based class PHOT 102C. CSU
Offered on occasion

PHOT 130. Portfolio Production (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: PHOT 81B or PHOT 102B or PHOT 81D
Recommended Prep: Approval of the Photography Department
Production of a portfolio in preparation for a career in commercial, documentary or fine arts photography or for transfer to a four-year institution. Focus will be on technical and aesthetic issues as well as portfolio presentation and marketing strategies. CSU
Offered Fall semesters

PHOT 130A. Portfolio Production 1 (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: PHOT 81D or PHOT 92; Completion of or concurrent enrollment in: PHOT 81B or PHOT 85B or PHOT 90 or PHOT 102B
Recommended Prep: Approval of the Photography Department
An introductory portfolio production course in preparation for a career in commercial, documentary or fine arts photography or for transfer to a four-year institution. Focus will be on technical and aesthetic issues as well as portfolio presentation and marketing strategies. CSU

PHOT 130B. Portfolio Production 2 (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: PHOT 130A
An intermediate portfolio production course preparing students for a career in commercial, documentary or fine arts photography or for transfer to a four-year institution. Focus will be on technical and aesthetic issues as well as portfolio presentation and marketing strategies. Widens and deepens the skills, techniques, methods, and processes learned in PHOT 130A. Emphasis on personally expressive themes and content. Expanded concepts, and complexity of techniques and processes. CSU

PHOT 130C. Portfolio Production 3 (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: PHOT 130B
An advanced portfolio production course preparing students for a career in commercial, documentary or fine arts photography or for transfer to a four-year institution. Focus will be on technical and aesthetic issues as well as portfolio presentation and marketing strategies. Widens and deepens the skills, techniques, methods, and processes learned in PHOT 130A and PHOT130B. Emphasis on personally expressive themes and content. Expanded concepts, and complexity of techniques and processes. CSU

PHOT 140. Industry Internship (1-8)
Work-60-600 P/NP available
Prereq: Approval of Photography Department
Recommended Prep: PHOT 85B and PHOT 90 and PHOT 60B
Repeat: Repeated up to 8.00 Units
Photography related work experience and further career development in a supervised setting. Work experience in an approved industry facility such as a photography studio, publication, design studio, art gallery or museum and/or production team. Or work in the photography department. Professional presence, networking, communication and interview skills are addressed. One unit of credit is earned for each 60 hours of unpaid, or 75 hours of paid work. CSU
Offered Fall and Spring Semesters

PHOT 145. College Internship (1-8)
Work-60-600 P/NP available
Prereq: Approval of the Photography Department
Repeat: Repeat max. 8 units
Photography related work experience and further career development in a supervised setting. On campus college work experience in CCSF Photography Department. Resume writing, networking, communication and interview skills. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. CSU
Offered Fall and Spring Semesters

PHOT 200A. Photography Service Learning (3)
Lec-17.5, Lab-122.5, field trips P/NP available
Prereq: PHOT 85B or PHOT 90 or PHOT 93
Photography Service Learning provides an environment for students to gain real-world skills and practice service learning. Students will work with CCSF departments and/or non-profit organizations to produce projects for actual clients. Students will gain practice with client communications, technical problem solving, and project management for individual and collaborative photography services for projects including websites, printed materials, brochures, and other communications projects. CSU
Offered on occasion

PHOT 200B. Photography Service Learning II (3)
Lec-17.5, Lab-122.5, field trips P/NP available
Prereq: PHOT 200A
Advanced opportunities for students to gain real-world skills, learning through service work with CCSF departments and/or non-profit organizations. Students will produce complex projects for actual clients and have significant autonomy with communications and technical problem solving, as well as take on leadership and management roles in individual and collaborative projects. CSU
Offered on occasion

Noncredit Course:

PHOT 1001. Using Your Digital Camera (16 hrs)
Focus is on fundamentals of digital capture and camera operation and functions such as ISO, shutter speed, and aperture control. Students will also learn the foundations of aesthetics and composition for image-making.
Offered on occasion

PHOT 1002. Beginning B/W Photography (35 hrs)
Focus is on the fundamentals of film camera operation, black & white film processing and darkroom printing. Foundations of aesthetics and composition for black and white film image-making will be explored. The course includes open lab time to process and print black and white film.
Offered on occasion

PHOT 1003. Lightroom 1: Library & Develop (18 hrs)
Focus is on the fundamentals of Adobe Lightroom's Library and Develop Module and instruction on how to professionally develop and organize digital images. Setup, workflow, organization, image management, rating, editing, non-destructive image processing, and delivery of images regardless of output type will be explored. The course includes open lab time to work on images.
Offered on occasion

PHOT 1005. iPhoneography (17.5 hrs)
This course focuses on what students need to know to shoot, process and deliver images with their iPhone as a compliment to their professional photography practice. The iPhone's basic and advanced camera controls, applications for shooting and processing images, and the principles to capture and share images with this mobile device will be explored. The course includes lab time to work on images.
Offered on occasion

Physical Education and Dance

Office: Wellness113
Phone Number: (415) 239-3411
Web Site: *www.ccsf.edu/pe*

Announcement of Curricula

Degree Curricula

Kinesiology Major (AA-T)

Associate Degree for Transfer in Kinesiology offers students comprehensive lower division foundation in Kinesiology. The core curriculum covers kinesiology, basic human anatomy, physiology, principles of physical activity, physical education, team/individual sports, aquatics, combatives, coaching and professional careers in Kinesiology and its sub-disciplines. The AA-T prepares students for transfer to upper division Kinesiology programs at four-year colleges and universities, particularly to California State University campuses.

Learning Outcomes

Upon completion of this program, students will be able to:

- Integrate and articulate appropriate scientific and quantitative conclusions in regards to human movement.
- Evaluate the role of physical activity and its impact on leading a healthy, functional lifestyle.
- Explain the range of occupational and educational pathways in Kinesiology.
- Analyze the value of distinct physical activities.

Students who wish to earn the Associate Degree for Transfer in Kinesiology (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Kinesiology

Course . . . . . Units
Required core courses
PE 26 Introduction to Kinesiology 3.0
BIO 108 General Human Anatomy 4.0
BIO 111 Human Physiology 5.0
or BIO 112 Introduction to Human Physiology 4.0

Select two of the following courses
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies 5.0
ECON 5 Introductory Statistics for Economics, Business and Social Sciences 5.0
MATH 80 Probability and Statistics 5.0
PSYC 5 Statistics for Behavioral Sciences 5.0
BIO 9 Human Biology 4.0
CHEM 32 Introduction to Medical Chemistry 4.0
PHYC 2A Introductory Physics I 3.0
and PHYC 2AL Introductory Physics Laboratory 1.0
EMT 14 First Aid and Cardiopulmonary Resuscitation 3.0

Movement-based courses Select a maximum of one (1) course from any three (3) of the following areas for a minimum of three units: Aquatics, Combatives, Team Sports, Individual Sports, Fitness, Dance

Movement - based courses Aquatics
PE 254 Novice Swimming 1.0
PE 255A Beginning Swimming 1.0
PE 255C Intermediate Swimming 1.0
PE 255B Advanced Beginning Swimming 1.0
PE 255D Advanced Swimming 1.0

Movement-based courses Combatives
PE 271A Beginning Judo 1.0
PE 271B Intermediate Judo 1.0
PE 274A Beginning Jiu-jitsu 1.0
PE 274B Intermediate Jiu-jitsu 1.0
PE 276A Beginning Taekwondo 1.0
PE 276B Intermediate Taekwondo 1.0

Movement-based courses Individual sports
PE 230A Beginning Archery 1.0
PE 230B Intermediate Archery 1.0
PE 231A Beginning Badminton 1.0
PE 231B Intermediate Badminton 1.0
PE 236A Beginning Golf 1.0
PE 236B Intermediate Golf 1.0
PE 240A Beginning Tennis 1.0
PE 240B Intermediate Tennis 1.0

Movement-based courses Fitness
PE 200B Fitness Center Super Circuit 1.0
PE 204A Beginning Physical Fitness 1.0
PE 205A Beginning Running and Conditioning 1.0
PE 206A Beginning Walking for Wellness 1.0
PE 207A Beginning Boot Camp Fitness 1.0
PE 210A Beginning boxercise 1.0
PE 214A Beginning Weight Training 1.0
PE 217A Beginning Stretching and Flexibility Development 1.0
PE 219A Beginning Yoga 1.0

Movement-based courses Team sports
PE 232A Beginning Baseball 1.0
PE 233A Beginning Basketball 1.0
PE 235B Intermediate Touch Football 1.0
PE 238A Beginning Soccer 1.0
PE 242A Beginning Volleyball 1.0

Movement-based courses Dance
DANC 119A Beginning Ballet 1.0
DANC 119C Intermediate Ballet 1.0
DANC 124A Beginning Modern Dance 1.0
DANC 129A Beginning Jazz Dance 1.0

DANC 134A Beginning Tap Dance 1.0
DANC 138A Beginning Hip Hop Dance 1.0
DANC 145A Beginning Ballroom Dance 1.0
Total: . . . . . 21.0 – 24.0

Dance Performance Art Major (AA)

The Dance Program has been an integral part of City College of San Francisco's Physical Education Department since its inception over 70 years ago. Due to the integrity, diversity, and excellence in teaching, this program has steadily grown.

The curriculum for the Associate Degree in Dance allows students to develop skills to pursue careers in choreography, dance performance, dance education and criticism, as well as fulfills most of the lower division requirements for many four-year institutions. Faculty are dedicated to creating a discipline that carries over to all aspects of life long health, nurturing the "whole" dancer in mind, body, and spirit. The Dance Program provides comprehensive studies including history, theory, choreography, technique, conditioning, and performance. Additional classes such as anatomy and nutrition are included to support the student's development.

The program highlights dance technique (ballet, modern, hip hop, contemporary, tap, jazz, and African Haitian) and performance, while providing the student with all the tools necessary to become a healthy and well-rounded dancer. The student will also have ample performance, choreography, and production opportunities, in addition to exploring the sciences and history as part of our diverse program. Special focus is given to prepare the dancer for transfer to upper division courses at a four-year college or university.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply observational and evaluative skills to the creative processes required of dance production.
- Synthesize the physical skills and dance knowledge learned in the major to meet academic and industry standards.
- Exhibit professionalism during dance training and performance.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is 4 semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Dance Performance Art

Course . . . . . Units

Required

DANC 100A Beginning Dance Composition 3.0
DANC 30 Dance History Dance in Cultural Context 3.0
DANC 34A Dance Conditioning 1.0
DANC 101A Dance Performance Production 1.0
DANC 102A Beginning CCSF Repertory Dance Company Local Theatre 1.0
DANC 119C Intermediate Ballet 1.0
DANC 123A Contemporary Dance I 1.0
DANC 124C Intermediate Modern Dance 1.0
DANC 131A Introduction to Dance Theater 1.0
BIO 108 General Human Anatomy 4.0
PE 20 Introduction to Exercise and Sports Nutrition 3.0

Choose 1 course from the following

DANC 119D Advanced Intermediate Ballet 2.0
DANC 121B Intensive Ballet 2.0
DANC 124D Advanced Modern Dance 2.0
DANC 126B Intensive Modern Dance 2.0

Choose 1 course from the following

DANC 129C Intermediate Jazz Dance 1.0
DANC 129D Advanced Jazz Dance 1.0

Choose 1 course from the following

MUS 27A Music Appreciation 3.0
MUS 26 Music in American Culture 3.0
MUS 21 Traditional African Music 3.0

Choose 4 units from the following

DANC 37 Feldenkrais for Dance and Performing Arts 1.0
DANC 100B Intermediate Dance Composition 3.0
DANC 119A Beginning Ballet 1.0
DANC 119B Advanced Beginning Ballet 1.0
DANC 122 Beginning Pointe Technique 1.0
DANC 124A Beginning Modern Dance 1.0
DANC 124B Advanced Beginning Modern Dance 1.0
DANC 127A Dance Improvisation: Group 1.0
DANC 127B Dance Improvisation: Solo, Duet, and Contact Technique 1.0
DANC 129A Beginning Jazz Dance 1.0
DANC 129B Advanced Beginning Jazz Dance 1.0
DANC 133A Beginning African-Haitian Dance 1.0
DANC 133B Advanced Beginning African Haitian 1.0
DANC 133C Intermediate African-Haitian Dance 1.0
DANC 134A Beginning Tap Dance 1.0
DANC 134B Advanced Beginning Tap Dance 1.0
DANC 134C Intermediate Tap Dance 1.0
DANC 138A Beginning Hip Hop Dance 1.0
DANC 138B Advanced Beginning Hip Hop Dance 1.0
DANC 138C Intermediate Hip Hop Dance 1.0
DANC 138D Advanced Hip Hop Dance 1.0
DANC 173 Yoga Movement 1.0
PE 219A Beginning Yoga 1.0
PE 219B Intermediate Yoga 1.0
PE 219C Advanced Yoga 1.0
PE 220 Intensive Yoga 2.0
Total: 30.0

Certificate Curricula

Dance

The curriculum for the Certificate of Accomplishment in Dance will allow students to develop the skills required to pursue careers in dance performance and dance education. The Dance Program provides comprehensive studies including history and theory, choreography, and technique and performance. To meet diverse students' needs various options are available. All students need to meet with a faculty member or file a dance program application and select a program of course totaling 17 units. Each course needs to be completed with a C or

higher grade. At least 12 units need to be completed at CCSF. Students wishing to use equivalent courses from other colleges are responsible for providing supporting documentation in a timely manner. For further information call 452-5697, or visit the website at ***www.ccsf.edu/Resources/ccsframs*** (link: Dance)

Dance-Classical Dance Performance Certificate

The Classical Dance Performance Certificate provides comprehensive studies including history and theory, choreography, technique, performance, and dance fitness. Students will develop the skills required to pursue careers in dance education.To meet the diverse needs of each student, various options are available.

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform foundational technique and movement skills in classical dance forms.
- Apply critical and creative skills to the processes and techniques required of dance performance and education.
- Compose short dance studies.
- Analyze the influence of culture on different styles of dance.

At least 12 units must be completed at CCSF. Students are encouraged to consult with a CCSF academic counselor and the program advisor to ensure they are moving toward fulfillment of their goals.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Dance-Classical Dance Performance

Course . . . . . Units

Required workshop and theory courses:

DANC 100A Beginning Dance Composition 3.0
DANC 30 Dance History Dance in Cultural Context. 3.0
DANC 34A Dance Conditioning 1.0

Choose 6 units from the following dance technique courses:

DANC 119C Intermediate Ballet 1.0
DANC 119D Advanced Intermediate Ballet. 2.0
DANC 121B Intensive Ballet. 2.0
DANC 124C Intermediate Modern Dance. 1.0
DANC 124D Advanced Modern Dance 2.0
DANC 126B Intensive Modern Dance 2.0

Choose 3 units from the following elective courses:

DANC 34B Dance Conditioning Level II 1.0
DANC 37 Feldenkrais for Dance and Performing Arts. 1.0
DANC 101A Dance Performance Production 1.0
DANC 102A Beginning CCSF Repertory Dance Company Local Theatre. 1.0
DANC 102B Intensive CCSF Repertory Dance Company 2.0
DANC 119A Beginning Ballet 1.0
DANC 119B Advanced Beginning Ballet 1.0
DANC 122 Beginning Pointe Technique 1.0
DANC 124A Beginning Modern Dance. 1.0
DANC 124B Advanced Beginning Modern Dance. 1.0
DANC 129A Beginning Jazz Dance 1.0
DANC 129B Advanced Beginning Jazz Dance 1.0
DANC 131A Introduction to Dance Theater 1.0

Total: 16.0

Dance-African Heritage Dance Performance Certificate

The African Heritage Dance Performance Certificate provides comprehensive studies including history and theory, choreography, technique, performance, and dance fitness. Students will develop the skills required to pursue careers in dance education.To meet the diverse needs of each student, various options are available.

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform foundational techniques and movement skills in African heritage dance forms.
- Apply critical and creative skills to the processes and techniques required of dance performance and education.
- Compose short dance studies.
- Analyze the influence of culture on different styles of dance.

At least 12 units must be completed at CCSF. Students are encouraged to consult with a CCSF academic counselor and the program advisor to ensure they are moving toward fulfillment of their goals.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Dance-African Heritage Dance Performance

Course . . . . . Units

Required Workshop and Theory courses:

DANC 100A Beginning Dance Composition 3.0
and DANC 30 Dance History Dance in Cultural Context. 3.0
or AFAM 55 From Funk to Hip Hop 3.0
or MUS 21 Traditional African Music 3.0
or MUS 23 History of Jazz: Musical Traditions of the African-American 3.0

Required dance technique courses:

DANC 34A Dance Conditioning 1.0
DANC 129A Beginning Jazz Dance 1.0
DANC 133A Beginning African-Haitian Dance 1.0
DANC 134A Beginning Tap Dance. 1.0
DANC 138A Beginning Hip Hop Dance 1.0

Choose 5 units from the following elective courses:

DANC 34B Dance Conditioning Level II 1.0
DANC 101A Dance Performance Production 1.0
DANC 102A Beginning CCSF Repertory Dance Company Local Theatre. 1.0
DANC 102B Intensive CCSF Repertory Dance Company 2.0
DANC 129B Advanced Beginning Jazz Dance 1.0
DANC 129C Intermediate Jazz Dance 1.0
DANC 129D Advanced Jazz Dance. 1.0
DANC 131A Introduction to Dance Theater 1.0
DANC 133B Advanced Beginning African Haitian 1.0
DANC 133C Intermediate African-Haitian Dance 1.0

DANC 133D Advanced African-Haitian Dance 1.0
DANC 134B Advanced Beginning Tap Dance. 1.0
DANC 134C Intermediate Tap Dance 1.0
DANC 134D Advanced Intermediate Tap Dance 1.0
DANC 138B Advanced Beginning Hip Hop Dance 1.0
DANC 138C Intermediate Hip Hop Dance 1.0
DANC 138D Advanced Hip Hop Dance 1.0

Total: 16.0

Dance Group Fitness and Conditioning Certificate

The program covers comprehensive studies in dance group fitness, dance conditioning and technique, basic exercise science, flexibility, strength development, and nutrition. Students develop the skills required to pursue careers in dance and fitness education.To meet the diverse needs of each student, various options are available.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply technical dance and movement skills to aerobic fitness practices.
- Use critical and creative skills in the processes required of dance and physical fitness education.
- Synthesize dance movement into individualized fitness plans.

At least 12 units must be completed at CCSF. Students are encouraged to consult with a CCSF academic counselor and the program advisor to ensure they are moving toward fulfillment of their goals.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Dance Group Fitness and Conditioning

Course . . . . . Units

Required
DANC 34A Dance Conditioning 1.0
DANC 34B Dance Conditioning Level II 1.0
DANC 172A Zumba: Latin Style Dance Forms 1.0
PE 210A Beginning boxercise 1.0
PE 216A Beginning Body Sculpting 1.0

Choose 1 course from the following
PE 20 Introduction to Exercise and Sports Nutrition . . . 3.0
or BIO 132 Introduction to Nutrition 3.0

Choose at least 2 units from the following
PE 8 Introduction to Personal Training 3.0
or PE 9 Fitness, Food, Managing Weight: Navigating Wellness 2.0
or PE 14 Toward Living Long & Strong: A New Fitness Paradigm 2.0

Choose 2 units from the following
DANC 124A Beginning Modern Dance. 1.0
DANC 124B Advanced Beginning Modern Dance. 1.0
DANC 129A Beginning Jazz Dance 1.0
DANC 129B Advanced Beginning Jazz Dance 1.0
DANC 138A Beginning Hip Hop Dance 1.0
DANC 138B Advanced Beginning Hip Hop Dance 1.0

Choose 2 units from the following
DANC 173 Yoga Movement 1.0
PE 217A Beginning Stretching and Flexibility Development 1.0
PE 217B Intermediate Stretching and Flexibility Development 1.0
PE 219A Beginning Yoga 1.0
PE 219B Intermediate Yoga 1.0
PE 222 Introduction to Feldenkrais 1.0

Choose 2 units from the following
DANC 172B Zumba: Street Style Dance Forms. 1.0
PE 174A Beginning Aqua Zumba 1.0
PE 252A Beginning Water Aerobics 1.0
PE 252B Intermediate Water Aerobics 1.0
PE 252C Advanced Water Aerobics 1.0
PE 200B Fitness Center Super Circuit 1.0
PE 200C Fitness Center Super Circuit 2.0
PE 204A Beginning Physical Fitness 1.0
PE 204B Intermediate Physical Fitness 1.0
PE 210B Intermediate boxercise 1.0
PE 215A Beginning Strength and Interval Training 1.0
PE 216B Intermediate Body Sculpting 1.0

Total: . . . . . 16.0 – 17.0

Dance-Social Dance Forms Certificate

The Social Dance Forms Certificate provides comprehensive studies in a variety of social dance styles and techniques that includes partnering, musicality, and performance. Students will develop the skills required to pursue careers in social dance education.To meet the diverse needs of each student, various options are available.

Learning Outcomes

Upon completion of this program, students will be able to:

- Perform foundational technique and movement skills in various social dance forms.
- Apply partnering skills to the performance of a variety of social dance styles.
- Analyze the historical influence of culture on various social dance forms.

At least 12 units must be completed at CCSF. Students are encouraged to consult with a CCSF academic counselor and the program advisor to ensure they are moving toward fulfillment of their goals.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Dance-Social Dance Forms

Course . . . . . Units

Required
DANC 30 Dance History Dance in Cultural Context . . . 3.0
DANC 34A Dance Conditioning 1.0
DANC 145A Beginning Ballroom Dance. 1.0
DANC 145B Intermediate Ballroom Dance. 1.0
DANC 155A Beginning Salsa and Other Latin Dances . . 1.0
DANC 160A Beginning Argentine Tango 1.0

Choose 2 units from the following
DANC 119A Beginning Ballet 1.0
DANC 119B Advanced Beginning Ballet 1.0
DANC 124A Beginning Modern Dance. 1.0

DANC 124B Advanced Beginning Modern Dance. 1.0
DANC 129A Beginning Jazz Dance 1.0
DANC 129B Advanced Beginning Jazz Dance 1.0
DANC 134A Beginning Tap Dance. 1.0
DANC 134B Advanced Beginning Tap Dance. 1.0

Choose 6 units from the following
DANC 101A Dance Performance Production 1.0
DANC 102A Beginning CCSF Repertory Dance Company Local Theatre. 1.0
DANC 141A Beginning International Folk Dance 1.0
DANC 141B Intermediate International Folk Dance 1.0
DANC 146A Beginning Waltz Styles and Techniques. 1.0
DANC 146B Intermediate Waltz Styles and Techniques. 1.0
DANC 155B Intermediate Salsa and Other Latin Dances 1.0
DANC 155C Advanced Salsa and Other Latin Dances 1.0
DANC 160B Intermediate Argentine Tango 1.0
DANC 160C Advanced Argentine Tango. 1.0
DANC 161 Follower's Technique for Argentine Tango 1.0

Total: 16.0

Athletic Coaching Certificate

The Certificate of Achievement in Athletic Coaching can lead to employment as sport coaches at youth sport programs, recreation clubs, or middle and high school athletic teams. The major coursework encompasses kinesiology, personal training, psychology, physical education, athletics, and first aid/CPR training. The program examines developmental patterns of growth, and provides knowledge and skills for coaches to conduct practices and competitions that enhance the physical, social and emotional growth of diverse athletes.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply concepts and techniques of coaching to formulate a full season plan of practice in their respective sport.
- Determine sports-related safety concerns when preparing athletes or teams for competitions.
- Evaluate and apply the physical and psychological health foundations needed for sports performance.
- Create team organization that promotes character development and sportsmanship.

At least 14 units must be completed at CCSF. Students are encouraged to consult with a CCSF academic counselor and the program advisor to ensure they are moving toward fulfillment of their goals.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Athletic Coaching

Course . . . . . Units

Required
PE 7 Introduction to Athletic Coaching. 3.0
PE 8 Introduction to Personal Training 3.0
PE 26 Introduction to Kinesiology 3.0

Choose 3 units from the following
PSYC 40 Child and Adolescent Psychology 3.0
PSYC 1 General Psychology 3.0

Choose 1 unit from the following
EMT 12 Basic Life Support for Healthcare Providers 0.5
EMT 13 Standard First Aid. 0.5
EMT 14 First Aid and Cardiopulmonary Resuscitation 3.0

Choose at least 2 units from the following
PE 232A Beginning Baseball 1.0
PE 232B Intermediate Baseball 1.0
PE 233A Beginning Basketball. 1.0
PE 233B Intermediate Basketball. 1.0
PE 235A Touch Football 1.0
PE 235B Intermediate Touch Football 1.0
PE 238B Intermediate Soccer. 1.0
PE 238A Beginning Soccer. 1.0
PE 242A Beginning Volleyball. 1.0
PE 242B Intermediate Volleyball. 1.0
PE 258A Beginning Water Polo. 1.0
PE 258C Intermediate Water Polo. 1.0
PE 41 Appreciation and Analysis of Baseball. 2.0
PE 42 Appreciation and Analysis of Basketball. 2.0
PE 43 Appreciation and Analysis of Football 3.0
PE 45 Appreciation and Analysis of Soccer 2.0
PE A 60 Women's Intercollegiate Soccer 3.0
PE A 65 Intercollegiate Women's Basketball 3.0
PE A 68 Intercollegiate Women's Volleyball 3.0
PE A 89 Women's Intercollegiate Water Polo 3.0
PE A 80 Intercollegiate Baseball for Men. 3.0
PE A 81 Intercollegiate Men's Basketball 3.0
PE A 83 Intercollegiate Athletics for Men-Football. 3.0
PE A 85 Intercollegiate Men's Soccer 3.0

Choose at least 2 units from the following
PE 231A Beginning Badminton 1.0
PE 231B Intermediate Badminton 1.0
PE 236A Beginning Golf 1.0
PE 236B Intermediate Golf 1.0
PE 240A Beginning Tennis 1.0
PE 240B Intermediate Tennis 1.0
PE 255A Beginning Swimming 1.0
PE 255C Intermediate Swimming 1.0
PE 271A Beginning Judo. 1.0
PE 271B Intermediate Judo. 1.0
PE 274A Beginning Jiu-jitsu. 1.0
PE 274B Intermediate Jiu-jitsu. 1.0
PE 276A Beginning Taekwondo 1.0
PE 276B Intermediate Taekwondo 1.0
PE A 61 Intercollegiate Badminton (Women) 3.0
PE A 62 Intercollegiate Women's Swim 3.0
PE A 63 Intercollegiate Women's Tennis 3.0
PE A 66 Intercollegiate Women's Track & Field 3.0
PE A 69 Intercollegiate Women's Cross Country 3.0
PE A 82 Intercollegiate Men's Cross Country 3.0
PE A 88 Intercollegiate Men's Track & Field 3.0

Choose 2 units from the following
PE 214A Beginning Weight Training 1.0

PE 214B Intermediate Weight Training 1.0
PE 215A Beginning Strength and Interval Training 1.0
PE 215B Intermediate Strength and Interval Training 1.0
PE 205A Beginning Running and Conditioning 1.0
PE 205B Intermediate Running and Conditioning. 1.0
PE 217A Beginning Stretching and Flexibility Development 1.0
PE 217B Intermediate Stretching and Flexibility Development 1.0
Total: . . . . . 19.0 – 23.0

Personal Training Certificate

The Personal Training Certificate covers career opportunities in personal training, basic exercise science, fitness testing, flexibility, strength development, health assessment, practical training labs, and nutrition, in addition to CPR/AED. Successful completion of this certificate will also prepare candidates to take industry standard national certification examinations such as ACE (American Council of Exercise), ACSM (American College of Sports Medicine), or NASM (National Academy of Sports Medicine).

Learning Outcomes

Upon completion of this program, students will be able to:

- Explain basic exercise science and various techniques and modes of fitness training.
- Design personal health and wellness programs that address body fitness and lifestyle modifications.
- Integrate technology in personal training plans for a diverse client population.
- Determine health and safety concerns and apply appropriate procedures.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Personal Training

Course . . . . . Units
Required
PE 8 Introduction to Personal Training 3.0
PE 9 Fitness, Food, Managing Weight: Navigating Wellness 2.0
PE 20 Introduction to Exercise and Sports Nutrition 3.0
EMT 12 Basic Life Support for Healthcare Providers 0.5
Student may satisfy EMT 12 by having current CPR/AED Certification issued by the American Red Cross or American Heart Association

Choose 2 units from the following
PE 217A Beginning Stretching and Flexibility Development 1.0
PE 217B Intermediate Stretching and Flexibility Development 1.0
PE 219A Beginning Yoga 1.0
PE 219B Intermediate Yoga 1.0
PE 252A Beginning Water Aerobics 1.0
PE 252B Intermediate Water Aerobics 1.0
PE 174A Beginning Aqua Zumba 1.0

Choose 3 units from the following
PE 200C Fitness Center Super Circuit 2.0
PE 204A Beginning Physical Fitness 1.0
PE 204B Intermediate Physical Fitness 1.0
PE 205A Beginning Running and Conditioning 1.0
PE 206A Beginning Walking for Wellness. 1.0
PE 256A Beginning Fitness Swimming 1.0
PE 211A Beginning Boot Camp Fitness 1.0
PE 211B Intermediate Boot Camp Fitness 1.0

Choose 3 units from the following
PE 210A Beginning boxercise 1.0
PE 212B Beginning Intermediate Olympic Weightlifting 1.0
PE 214A Beginning Weight Training 1.0
PE 214B Intermediate Weight Training 1.0
PE 215A Beginning Strength and Interval Training 1.0
PE 215B Intermediate Strength and Interval Training 1.0
Total: . . . . . 16.0 – 16.5

Yoga Certificate

The Certificate of Achievement in Yoga is comprehensive in nature, reflecting a commitment to benefit local populations by offering lifelong learning opportunities which includes, general and liberal education, career and vocational education, and adult and continuing education. The Yoga Certificate offers pathways for students to meet any and/or all of these goals. This college level program builds the skills needed for further certification in the private sector.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify the appropriate sequence of physical movements to perform yoga poses successfully.
- Integrate health and/or safety concepts or practices into movement activities.
- Create an individualized practice based on yoga principles.

Program-recommended preparation. PE 219A Beginning Yoga or demonstration of exit skills.

At least 12 units must be completed at CCSF. Students are encouraged to consult with a CCSF academic counselor and the program advisor to ensure they are moving toward fulfillment of their goals.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Yoga

Course . . . . . Units
Required
PE 219B Intermediate Yoga 1.0
PE 219C Advanced Yoga 1.0
PE 220 Intensive Yoga 2.0
PE 218 Gentle Restorative Yoga 1.0
DANC 173 Yoga Movement 1.0

Choose 1 course from the following
BIO 106 Introduction to Human Anatomy and Physiology 4.0
or BIO 108 General Human Anatomy 4.0

Choose 6 units from the following
DANC 34A Dance Conditioning 1.0

DANC 34B Dance Conditioning Level II 1.0
DANC 37 Feldenkrais for Dance and Performing Arts 1.0
DANC 124A Beginning Modern Dance 1.0
DANC 119A Beginning Ballet 1.0
DANC 129A Beginning Jazz Dance 1.0
PE 217A Beginning Stretching and Flexibility Development 1.0
PE 217B Intermediate Stretching and Flexibility Development 1.0
PE 222 Introduction to Feldenkrais 1.0
PE 223A Feldenkrais, Level 1 . . . . . 1.0
PE 14 Toward Living Long & Strong: A New Fitness Paradigm 2.0
PE 20 Introduction to Exercise and Sports Nutrition 3.0
HLTH 33 Introduction to Health and Wellness 2.0
HLTH 91M Mindful Stress Reduction 1.0
Total: 16.0

Announcement of Courses

Dance

Credit, Degree Applicable Courses:

DANC 30. Dance History - Dance in Cultural Context (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An overview of dance history with an emphasis on Western dance forms, American concert dance, and understanding dance practice and performance as a lineage. Focus is centered on the cultural origins and aesthetics of ballet, modern dance, jazz, tap, some social dance forms, and the emergence and influences of contemporary forms. UC/CSU
Formerly PE 30
Offered Spring semesters

Enrollment Limitations on Physical Education and Visual or Performing Arts Courses

Per title 5 Section 55041, effective Fall 2013, students may not enroll more than four times in "active participatory courses that are related in content" in the areas of physical education or visual and performing arts, which includes art, dance, music, and theatre. This limitation applies even if a student receives a substandard grade or "W" during one or more of the enrollments in such a course or if the students petition for repetition due to extenuating circumstances.

Dance courses that are related in content are grouped together in "families" of courses below. The families are indicated by their headings, e.g., Integrative Movement, Dance Composition, etc. For the most up-to-date listing of courses and families, refer to the online catalog, ***www.ccsf.edu/catalog****.*

Dance Theory

DANC 34A. Dance Conditioning (1)
Lab-35 P/NP available
Focus on conditioning techniques that relate to the dance idiom. Emphasis on basic Pilates principals that build abdominal and back strength. Exercises include body alignment, flexibility techniques, floor barre, weight training and stability exercises. UC/CSU
Formerly PE 564

DANC 34B. Dance Conditioning Level II (1)
Lab-35 P/NP available
Prereq: DANC 34A
Focus on multi-zone targeting conditioning techniques that relate to the dance idiom. Emphasis on beyond the basics of Pilates principles that build abdominal and back strength. Exercises include various approaches that combine body alignment, core strength, flexibility techniques, floor barre, weight training and stability exercises. UC/CSU

Integrative Movement

DANC 37. Feldenkrais for Dance and Performing Arts (1)
Lab-35 P/NP available
Recommended Prep: (DANC 119A or DANC 124A or DANC 129A or DANC 133A or DANC 138A or training in theater, voice, or instrumental music) and (ESL 186 or placement in ESL 188 or readiness for college-level English)
Instruction and practice in the Feldenkrais Method to address physical habits, movement adaptability, and specific performance skills for dance and related movement-based performance styles. Processes which enhance human expression through refinement of motor learning will be explored. CCSF GE Area G2 and CSU GE Area E2. UC/CSU

PE 223A. Feldenkrais, Level 1 (1)
Lab-35 P/NP available
Recommended Prep: PE 222 or demonstration of exit skills
Refine coordination and performance using The Feldenkrais Method's unique learning process. Emphasis is on sensing coordinated actions of the whole body, making distinctions between movement variations, adapting personal strategies, and recognizing changes in tension, ease, balance, and freedom of motion. UC/CSU

PE 223B. Feldenkrais, Level 2 (1)
Lab-35 P/NP available
Recommended Prep: PE 223A or demonstration of exit skills
Exploration of novel movement material with refinement of underlying patterns and skill. Emphasis is on transitions in level and orientation, developmental movements, balance, stability, rhythm, and new learning. Historical context included. UC/CSU

PE 223C. Feldenkrais, Level 3 (1)
Lab-35 P/NP available
Recommended Prep: PE 223B or demonstration of exit skills
Improve action, perception, and aesthetics of movement with sophisticated repertoire from the Feldenkrais Method. Emphasis is on the use of imagery, diagonals, walking, developing confidence for complex lessons, and working through physical challenges. UC/CSU

Dance Composition

DANC 100A. Beginning Dance Composition (3)
Lab-105 P/NP available
Recommended Prep: DANC 119C or DANC 124C or DANC 129C or DANC 133C or DANC 134C or DANC 145B
Exploration of compositional movement techniques. Improvisation and choreographic structures are presented for student study. The course culminates with a studio demonstration or theatre performance. UC/CSU
Offered Fall semesters

DANC 100B. Intermediate Dance Composition (3)
Lab-105, field trips
Recommended Prep: DANC 100A or DANC 119C or DANC 126B or DANC 133A
This is a self-directed, cumulative course for the Dance Major - Performance Art. The student will choreograph and produce an

original dance piece for public performance. This interdisciplinary, integrated project may enhance employability and augment artistic entrepreneurship. UC/CSU
Offered Fall semesters

DANC 127A. Dance Improvisation: Group (1)
Lab-35 P/NP available
Dance Improvisation: Group is a non-traditional approach to dance. Emphasis will be placed on improvisational movement techniques that stimulate ideas for moving spontaneously. The students will collaborate on group projects for performance at some unconventional sites on campus. UC/CSU
Formerly DANC 127
Offered Fall semesters

DANC 127B. Dance Improvisation: Solo, Duet, and Contact Technique (1)
Lab-35 P/NP available
Dance Improvisation: Solo, Duet, and Contact Technique is a course that emphasises improvisational movement techniques that integrate drama, comedy, music, vocal art forms, and various choreographic techniques. Students will practice their performance of improvisation through individual projects and collaborations. UC/CSU
Offered Fall semesters

Performance

DANC 101A. Dance Performance Production (1)
Lab-35 P/NP available
Recommended Prep: DANC 119A or DANC 124A or DANC 129A or DANC 133A or DANC 138A
This course introduces the skills required to transition from in-class dance technique to stage performance of repertory. Dance choreography will be learned for audience presentation in a theatrical or classroom environment. UC/CSU
Formerly PE 17A

DANC 102A. Beginning CCSF Repertory Dance Company - Local Theatre (1)
Lab-35, field trips P/NP available
Recommended Prep: DANC 101A or DANC 119C or DANC 124C or DANC 129C or DANC 138C
Designed as an introduction to CCSF ambassadorial dance company touring. Students will learn dance works from faculty and guest choreographers. Touring venues include CCSF campuses and San Francisco Bay Area colleges. UC/CSU

DANC 102B. Intensive CCSF Repertory Dance Company (2)
Lab-70, field trips P/NP available
Recommended Prep: DANC 102A
This course is designed to expand the skills of the student dancer preparing for a career as part of a touring dance company. Students will learn multiple dance works from faculty and guest choreographers. Touring venues include CCSF, San Francisco high schools and local colleges, public theaters, and other public dance events. UC/CSU
Offered Spring semesters

Ballet: Classical Dance Form That Defies Gravity

DANC 119A. Beginning Ballet (1)
Lab-35 P/NP available
Theory and practice of the principles of beginning ballet technique that include alignment, placement, turnout, positions of the feet, carriage of the arms, and basic ballet vocabulary. Focus is on the application of these principles to barre exercises and center practice. UC/CSU
Formerly DANC 120A

DANC 119B. Advanced Beginning Ballet (1)
Lab-35 P/NP available
Recommended Prep: DANC 119A or demonstration of exit skills
Advanced Beginning Ballet is a continuation of beginning ballet technique with an emphasis on building vocabulary and integrating connecting and traveling steps into combinations. UC/CSU

DANC 119C. Intermediate Ballet (1)
Lab-35 P/NP available
Recommended Prep: DANC 119B
Intermediate ballet is a continuation of the theory and practice of classical ballet and builds upon skills learned in advanced beginning ballet. Intermediate ballet vocabulary and technique at the barre and in center practice are introduced including positions of the body, balances, and pirouettes (turns on one leg). UC/CSU
Formerly DANC 120B

DANC 119D. Advanced Intermediate Ballet (2)
Lab-70 P/NP available
Recommended Prep: DANC 119C or demonstration of exit skills
Advanced Intermediate ballet is a continuation of the theory and practice of classical ballet and builds upon skills learned in intermediate ballet. Advanced intermediate ballet vocabulary and technique are introduced that include multiple turns, jumps with beats, turns in the air, and longer and more difficult combinations that emphasize style and technical accuracy . UC/CSU
Formerly DANC 120C

DANC 121B. Intensive Ballet (2)
Lab-70 P/NP available
Recommended Prep: DANC 119C or demonstration of DANC 119C exit skills
Intensive Ballet offers further practice and refinement of technique and vocabulary learned in Intermediate Ballet with an emphasis on analysis of anatomical function, movement qualities related to musicality, and longer center combinations integrating direction changes. UC/CSU

DANC 122. Beginning Pointe Technique (1)
Lab-35 P/NP available
Recommended Prep: DANC 119C or demonstration of exit skills
Theory and practice of basic pointe technique that include pre-pointe exercises, elementary pointe vocabulary, selection and fit of pointe shoes, and guidelines necessary to develop correct placement, muscular strength, and safe habits. UC/CSU
An assessment of ankle strength and alignment occurs at the start of the semester to determine whether students should use point shoes or soft shoes.

Modern Dance

DANC 124A. Beginning Modern Dance (1)
Lab-35 P/NP available
Beginning modern dance with emphasis on basic terminology, correct dance alignment, dance routines and basic concepts of modernism.

Examples of the techniques explored: Graham, Cunningham, Limon, Horton, and Dunham. UC/CSU
Formerly DANC 125A

DANC 124B. Advanced Beginning Modern Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 124A or demonstration of exit skills
Advanced beginning modern dance builds upon skills learned in beginning modern dance technique with emphasis on refining technique, increasing vocabulary, movement through levels and space, and combinations. UC/CSU

DANC 124C. Intermediate Modern Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 124B or demonstration of exit skills
Intermediate modern dance builds upon skills learned in advanced beginning modern dance technique with emphasis on increased technique, increased movement vocabulary appropriate to intermediate training, dynamic movement qualities related to musicality, and an in-depth continuation of modern dance history. UC/CSU
Formerly DANC 125B

DANC 124D. Advanced Modern Dance (2)
Lab-70 P/NP available
Recommended Prep: DANC 124C or demonstration of exit skills
Advanced modern dance builds upon skills learned in intermediate modern dance technique with emphasis on increased technique, increased movement vocabulary appropriate to advanced training, and more complex element phrase work integrating dynamics and musicality. A continuation of modern dance history will be presented. UC/CSU
Formerly DANC 125C

DANC 126B. Intensive Modern Dance (2)
Lab-70 P/NP available
Recommended Prep: DANC 119A; DANC 124C
Intensive modern dance builds upon the modern technique and vocabulary learned in Intermediate Modern Dance with emphasis on analysis of anatomical function, dynamic movement qualities related to musicality, ensemble performance and technique, and an in depth continuation of modern dance history. UC/CSU
Formally PE 626B

Jazz Dance

DANC 129A. Beginning Jazz Dance (1)
Lab-35 P/NP available
Beginning jazz dance with emphasis on basic technique, terminology, dance combinations and basic rhythms of jazz dance. UC/CSU
Formerly DANC 130A

DANC 129B. Advanced Beginning Jazz Dance (1)
Lab-35 P/NP available
Prereq: DANC 129A
Advanced beginning jazz dance builds upon skills learned in beginning jazz dance technique with emphasis on refining technique, increasing vocabulary, movement through space, and combinations. UC/CSU

DANC 129C. Intermediate Jazz Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 129B
Intermediate Jazz builds upon skills learned in Advanced Beginning Jazz Dance with emphasis on refining technique, musicality, increasing vocabulary and movement through space and combinations. UC/CSU

DANC 129D. Advanced Jazz Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 129C
Advanced Jazz Dance builds upon skills learned in Intermediate Jazz Dance technique with emphasis on refining technique, rhythmic structure, increasing vocabulary, movement through space, improvisation, and combination. UC/CSU

Dance Theater

DANC 131A. Introduction to Dance Theater (1)
Lab-35 P/NP available
Introduction to Dance Theater introduces the technical and choreographic style of dance performed in Musical Theater productions. This course is designed to adapt dance to various styles of musical theater accompaniment and explore how dance can non-verbally support the story-telling of plays and musicals. UC/CSU

African-Haitian Dance

DANC 133A. Beginning African-Haitian Dance (1)
Lab-35 P/NP available
Beginning African-Haitian dance will be examined through technical demonstration and practice. Emphasis will be placed on traditional movements, isolations, movement progressions, dance patterns, and musicality. Dance pioneers and their contribution to African-Haitian dance will be discussed. UC/CSU

DANC 133B. Advanced Beginning African Haitian (1)
Lab-35 P/NP available
Prereq: DANC 133A or demonstration of exit skills
Advanced beginning African Haitian Dance is a continuation of beginning African Haitian with an emphasis on building vocabulary on traditional movements and integrating isolations and movement progressions in connection to dance patterns and correct musicality. UC/CSU

DANC 133C. Intermediate African-Haitian Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 133B or demonstration of exit skills
Intermediate African Haitian dance builds on advanced beginning level skills. Through demonstration, practice, correction, and review, emphasis is placed on expansion into more intricate traditional movements, Dunham technique, dance patterns, styles, and musicality. Historical and cultural elements will be explored through lectures, films, research, and discussions. Creative expression will be encouraged through group choreographic activities and individual projects. UC/CSU

DANC 133D. Advanced African-Haitian Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 133C or demonstration of exit skills
Advanced African Haitian Dance is a continuation of intermediate African Haitian with an emphasis on building vocabulary on traditional movements and integrating isolations and movement

progressions in connection to dance patterns and correct musicality. UC/CSU
Formerly DANC 132C

Tap Dance

DANC 134A. Beginning Tap Dance (1)
Lab-35 P/NP available
Beginning Tap Dance briefly reviews the history of tap and lays the foundation for acquisition of tap dance skills. Emphasis will be on demonstration and practice of fundamental tap technique and vocabulary in rhythmic drills and dance phrases. UC/CSU
Formerly DANC 135A

DANC 134B. Advanced Beginning Tap Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 134A or demonstration of exit skills
Advanced Beginning Tap Dance further examines the history of tap and builds upon skills learned in beginning tap with emphasis on refining technique, increasing vocabulary, precise footwork and rhythmic accuracy in more complex combinations. UC/CSU

DANC 134C. Intermediate Tap Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 134B or demonstration of exit skills
Intermediate Tap Dance reviews the historical relationship of tap dance to jazz music and builds upon skills learned in advanced beginning tap with emphasis on more refined musicality and acquisition of intermediate level tap vocabulary and technique. UC/CSU
Formerly PE 541B

DANC 134D. Advanced Intermediate Tap Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 134C or demonstration of exit skills
Advanced Intermediate Tap Dance refines intermediate tap dance skills and explores improvisation and choreography through demonstration and practice. Focus is on tap history and its relationship to jazz music which provide guidelines for tap improvisation and choreography. UC/CSU
Formerly DANC 136

Hip-Hop Dance

DANC 138A. Beginning Hip Hop Dance (1)
Lab-35 P/NP available
Beginning Hip Hop dance with emphasis on technique, vocabulary, dance combinations and basic rhythms of hip hop dance. UC/CSU
Formerly DANC 137A

DANC 138B. Advanced Beginning Hip Hop Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 138A or demonstration of exit skills
Beginning Hip Hop dance with emphasis on technique, vocabulary, dance combinations and basic rhythms of hip hop dance. UC/CSU

DANC 138C. Intermediate Hip Hop Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 138B or demonstration of exit skills
Intermediate Hip Hop dance builds upon skills learned in Advance Beginning Hip Hop with emphasis on increasing vocabulary, styles, and length of dance combinations with more complex rhythms. Using hip hop dance as a vehicle, students will be able to explore their own movement expression and choreography. UC/CSU
Formerly DANC 137B

DANC 138D. Advanced Hip Hop Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 138C or demonstration of exit skills
Advanced Hip Hop dance builds upon skills learned in Intermediate Hip Hop with emphasis on increasing vocabulary, styles, and length of dance combinations with more complex rhythms. Using hip hop dance as a vehicle, students will be able to explore their own movement expression and choreography in both group and solo settings. UC/CSU

Folk Dance

DANC 141A. Beginning International Folk Dance (1)
Lab-35 P/NP available
International Folk Dance provides a foundation for the study of dance. Folk dance offers experience in varied rhythms, formations, dance structures and movement vocabularies. Partner and non-partner dances from various countries and cultures are included. UC/CSU
Formerly PE 518A
Offered Spring semesters

DANC 141B. Intermediate International Folk Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 141A or demonstration of DANC 141A exit skills
Intermediate International Folk Dance emphasizes partner and non-partner dances from various countries, selected to offer experience in more challenging rhythms, formations, dance structures and movement vocabularies. Beginning level repertory is practiced and maintained. Students learn to demonstrate, lead and teach International Folk dances. UC/CSU
Formerly PE 518B
Offered Spring semesters

Ballroom Dance

DANC 145A. Beginning Ballroom Dance (1)
Lab-35 P/NP available
An introduction to basic ballroom dance forms with an emphasis on step patterns and dance positions. Ballroom dances explored include forms such as Tango, Waltz, Swing, Cha-cha, Salsa, Rumba, and Foxtrot. UC/CSU
Formerly PE 535A

DANC 145B. Intermediate Ballroom Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 145A
Ballroom dance with emphasis on intermediate level step patterns and dance positions for a complete range of dances such as Tango, Waltz, Swing, Cha-cha, Salsa, Rumba, and Foxtrot. UC/CSU
Formerly PE 535B

DANC 146A. Beginning Waltz Styles and Techniques (1)
Lab-35 P/NP available
Introduction to beginning waltz steps. Students will learn both beginning slow waltz and Viennese waltz. UC/CSU
Formerly PE 538A
Offered on occasion

DANC 146B. Intermediate Waltz Styles and Techniques (1)
Lab-35 P/NP available
Recommended Prep: DANC 146A or demo of exit skills
Develop intermediate skills in waltz and Viennese waltz. Students will build on techniques learned in beginning waltz. UC/CSU
Offered on occasion

Dance Sport: Competitive Dance Forms Emphasizing Specific Techniques of International and American Styles

DANC 148A. Beginning Smooth Ballroom Dance (1)
Lab-35 P/NP available
Beginning ballroom dance with emphasis on step patterns from the bronze level American Smooth syllabus. The class will include a selection from Waltz, Foxtrot, American Tango and Waltz. UC/CSU
Offered on occasion

DANC 148B. Intermediate Smooth Ballroom Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 148A or demo of exit skills
Intermediate ballroom dance with emphasis on step patterns from the bronze and silver level American Smooth syllabus. The class will include a selection from Waltz, Foxtrot, American Tango and Viennese Waltz. UC/CSU
Offered on occasion

DANC 149A. Beginning International Latin Dance (1)
Lab-35 P/NP available
Beginning international Latin dance with emphasis on step patterns from the bronze level international Latin syllabus. The class will include a selection from Cha Cha, Rumba, Paso Doble, Samba and Jive. UC/CSU

DANC 149B. Intermediate International Latin Dance (1)
Lab-35 P/NP available
Recommended Prep: DANC 149A or demonstration of exit skills
Intermediate Latin dance with emphasis on step patterns from the bronze and silver level International Latin syllabus. The class will include a selection from rumba, cha cha, samba, jive and paso doble. UC/CSU

Latin American Dance: Survey of Informal Social Dances From the Caribbean, Central and South America

DANC 110A. Salsa Dance Production (1)
Lab-35, field trips P/NP only
Recommended Prep: DANC 155B or demonstration of exit skills.
Various salsa styles and techniques leading to group or solo performances will be learned. Styles and formations, including rueda, will be examined through demonstration and practice. Emphasis will be on the effective presentation of patterns. Satisfies CCSF Area G2 and CSU E2. UC/CSU

DANC 155A. Beginning Salsa and other Latin Dances (1)
Lab-35 P/NP available
Explorations of various Latin-American dance forms with emphasis on Salsa. Students will learn to execute beginning dance steps in Salsa and other Latin dance forms. Emphasis will be on social dances. UC/CSU
Formerly PE 560A

DANC 155B. Intermediate Salsa and Other Latin Dances (1)
Lab-35 P/NP available
Recommended Prep: DANC 155A or demonstration of exit skills
Explorations of various Latin-American dance forms with emphasis on Salsa. Students will learn to execute intermediate dance steps in Salsa and other Latin dance forms. Emphasis will be on social dances. UC/CSU
Formerly PE 560B

DANC 155C. Advanced Salsa and Other Latin Dances (1)
Lab-35 P/NP available
Recommended Prep: DANC 155B or demonstration of exit skills
Explorations of various Latin-American dance forms with emphasis on Salsa. Students will learn to execute advanced dance steps in Salsa and other Latin dance forms. Emphasis will be on social dances. UC/CSU
Formerly PE 560C
Offered Spring semesters

Argentine Tango: An Improvisational Social Dance Form from Argentina with a specialized vocabulary and musicality

DANC 111A. Argentine Tango Production (1)
Lab-35 P/NP available
Recommended Prep: DANC 160B
Collaborative creation, development and rehearsal of an Argentine Tango-based dance piece for public performance. UC/CSU

DANC 160A. Beginning Argentine Tango (1)
Lab-35 P/NP available
Introductory movement foundation in the social, improvisational form of Argentine Tango grounded in an exploration of its culture and history. The course teaches students to converse in the lead-follow language of this richly layered partner dance. UC/CSU
Formerly PE 576A

DANC 160B. Intermediate Argentine Tango (1)
Lab-35 P/NP available
Recommended Prep: DANC 160A
Intermediate Argentine Tango builds upon the social, improvisational skills learned in beginning with an emphasis on partnering in a closer embrace, incorporating rhythmic variations, and leading and following turns. The class examines the evolution of tango as a dancing image, a living art. UC/CSU
Formerly PE 576B

DANC 160C. Advanced Argentine Tango (1)
Lab-35 P/NP available
Recommended Prep: DANC 160B
Advanced Argentine Tango builds upon skills learned in intermediate with an emphasis on developing a deeper understanding of tango concepts, movement, partnering skills, technique and musicality. The course grows students' dance fluency in the lead-follow language of tango. UC/CSU
Formerly PE 576C

DANC 161. Follower's Technique for Argentine Tango (1)
Lab-35 P/NP available
Recommended Prep: DANC 160A
Refinement of placement, styling, adornments, lead/follow and musicality in Argentine Tango through exercises done at the barre and on the center with and without partners. Focus on the role of the follower

in the tango. Course highlights the contribution of women in the construction of tango culture past and present. Open to students of all genders. UC/CSU

Integrated Styles and Technique

DANC 123A. Contemporary Dance I (1)
Lab-35 P/NP available
Recommended Prep: DANC 119B or DANC 124B or DANC 129B or demonstration of exit skills
A fusion of different contemporary dance techniques and genres embracing a variety of movement skills, dance vocabulary, and current trends in dance. UC/CSU

DANC 123B. Contemporary Dance II (1)
Lab-35 P/NP available
Prereq: DANC 123A or demonstration of exit skills
Recommended Prep: DANC 119B and DANC 124B and DANC 129B
A fusion of different contemporary dance techniques and genres embracing a variety of movement skills, dance vocabulary, and current trends in dance. CSU

DANC 173. Yoga Movement (1)
Lab-35 P/NP available
Recommended Prep: PE 219A or demonstration of exit skills
Yoga movement is a dynamic form of yoga that integrates elements of dance while increasing strength and flexibility. Fundamental yoga postures will be sequenced into combinations that include music, spatial design, energy qualities, and allow for individual creativity and expression. UC/CSU
Formerly PE 553, PE 221

Physical Education

Credit, Degree Applicable Courses:

PE 7. Introduction to Athletic Coaching (3)
Lec-52.5 P/NP available
Examine the practical applications and basic principles of coaching youth sports along with the philosophy, psychology, risks, and sports medicine knowledge involved. The course also prepares candidates the California Interscholastic Federation (CIF) certification. UC/CSU

PE 8. Introduction to Personal Training (3)
Lec-52.5 P/NP available
Learn how to perform fitness assessments--cardiovascular, muscular strength and body fat composition--and develop individualized, goal-specific exercise programs. The introduction of theory and principles of fitness training with evidence-based training protocols are used to promote optimum fitness. CSU
Formerly PE 8 Intro to Fitness and Training
Offered Fall semesters

PE 9. Fitness, Food, Managing Weight: Navigating Wellness (2)
Lec-35 P/NP available
Discussion of current weight loss methods, obesity theories, and the importance of physical activity and exercise. Analysis of how nutritional choices and exercise determine changes in body composition, body weight, and personal health and fitness levels. Students will create a personal program with short-term and long-term goals utilizing current technologies and motivational strategies toward fitness and nutrition that benefit healthy body composition and a wellness lifestyle. CSU
Formerly PE 9A
Offered Fall semesters

PE 13. Sports in Society (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course encourages students to discuss sports issues and analyze sports as a part of our society, ranging from youth leagues to professional sports. Examine the history of sports, its place in society, and its cultural links to race, gender, politics, economics, deviance, aggression, drug use, media, and social mobility. UC/CSU
Code change from 835 to 1270

PE 14. Toward Living Long & Strong: A New Fitness Paradigm (2)
Lec-35 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Investigation of the new paradigm which recognizes the revolutionary impact fitness makes on living life with vitality, energy, & health from youth onward. Body image, gender similarities and differences, & how our bodies respond to living an active, fit lifestyle will be analyzed. Also covered will be specific benefits cardiovascular exercise & strength training make to brain health & learning what daily choices our cells expect us to make because of our evolutionary biology. UC/CSU

PE 20. Introduction to Exercise and Sports Nutrition (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to the application of nutrition to human performance in both exercise and sports, with emphasis on nutrition as it applies to fitness, sport-specific training, and athletic performance. Topics include nutrient requirements and dietary recommendations, energy metabolism, weight management, the role of adequate nutrition in performance during training and competition, nutrition ergogenic aids. UC/CSU
Offered Spring semesters

PE 26. Introduction to Kinesiology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to Kinesiology and the various subdisciplines related to the study of human movement. An overview of kinesiology, physical education, principles of physical activity and fitness and professional career options will be examined. This course is of interest to anyone exploring career opportunities in the fields of kinesiology, physical education, health, wellness, physical activity, and sport. UC/CSU
C-ID KIN 100

PE 28. Women in Sports (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The history, social movements, physiology, psychology, and sociology of women in sports. Emphasis will be placed on exploring the changing roles in sports for women. UC/CSU

PE 41. Appreciation and Analysis of Baseball (2)
Lec-35 P/NP available
The history, mechanics, appreciation and analysis of individual and team play, strategy, rules, training programs, organizational methods,

and mental aspects of the game of baseball. Course is designed for spectators as well as coaches and participants. UC/CSU
Formerly PE 10B
Offered Spring semesters

PE 42. Appreciation and Analysis of Basketball (2)
Lec-35 P/NP available
Emphasis on systems of play, strategy, rules, training programs, organizational procedures, and background for both spectators and participants of the sport of basketball. UC/CSU
Formerly PE 10C
Offered Spring semesters

PE 43. Appreciation and Analysis of Football (3)
Lec-52.5 P/NP available
Examines current theory and concepts of intercollegiate football offense, defense and special teams, utilizing game footage, practices and computer assisted analysis. Strategies and game plan are evaluated and applied in preparation for weekly opponents. UC/CSU
Formerly PE 10D
Offered Fall semesters

PE 45. Appreciation and Analysis of Soccer (2)
Lec-35 P/NP available
This course emphasizes soccer system of play, strategy, rules, training programs, organizational procedures, and background from the perspectives of coaches, players, and spectators. UC/CSU
Formerly PE 10F
Offered Fall semesters

PE 225A. Introduction to Pilates (1)
Lab-35 P/NP available
Beginning Pilates stresses the fundamentals and principles of the Pilates Method. Traditional mat Pilates exercises and principles and combined to achieve body control, core strength, and joint mobility. UC/CSU

Enrollment Limitations on Physical Education and Visual or Performing Arts Courses

Per title 5 Section 55041, effective Fall 2013, students may not enroll more than four times in "active participatory courses that are related in content" in the areas of physical education or visual and performing arts, which includes art, dance, music, and theatre. This limitation applies even if a student receives a substandard grade or "W" during one or more of the enrollments in such a course or if the students petition for repetition due to extenuating circumstances.

Physical Education courses that are related in content are grouped together in "families" of courses below. The families are indicated by their headings, e.g., Public Safety, Fitness Center, etc. For the most up-to-date listing of courses and families, refer to the online catalog, ***www.ccsf.edu/catalog****.*

Physical Education for Special Needs

PE 218. Gentle Restorative Yoga (1)
Lab-35 P/NP available
A gentle approach to Hatha Yoga that includes a representative sample of beginning and restorative yoga postures, breathing exercises, and relaxation techniques. Emphasis on adaptation of the poses to improve alignment, increase blood circulation, flexibility, muscular strength, and to alleviate stress. Appropriate for older students and students with mild to moderate musculoskeletal conditions. UC/CSU
Formerly PE 554C

PE 222. Introduction to Feldenkrais (1)
Lab-35 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
The Feldenkrais Method is a body-mind approach to improving movement comfort, function, and physical skill. Emphasis is on applying the unique learning process of the Feldenkrais Method to improve habits, relieve tension, refine coordination and performance. Appropriate for all fitness levels, including restorative needs. UC/CSU

Public Safety

PE 29A. Beginning Firefighting and Public Safety Conditioning (2)
Lab-70 P/NP available
Designs to develop functional fitness required for firefighters and law enforcement personnel through a series of traditional strength and conditioning protocols as well as individual and group related task based activities. Best practices, methodology, and application of functionally specific physical requirements appropriate to careers in Firefighting, Law Enforcement and rescue services will be emphasized. CSU
Formerly PE 29

PE 29B. Intermediate Firefighting and Public Safety (2)
Lab-70 P/NP available
Prereq: PE 29A or demonstration of exit skills
Firefighting and Public Safety personnel are faced with many physical challenges, including the ability to endure long periods of time while exerting energy in sustaining operational duties. This class addresses the development of strength, endurance, power, and functional dynamic attributes required in these professions. CSU

PE 29C. Advanced Firefighting and Public Safety (2)
Lab-70 P/NP available
Prereq: PE 29B or demonstration of exit skills
Firefighting and Public Safety personnel are physically demanding and hazardous professions that requires sufficient levels of physical fitness to enhance occupational preparedness, safety, and health. The output of power at any time during an operational activity is challenging. As part of a comprehensive exercise and wellness program, this course addresses the development of functional dynamic power, muscular strength/endurance, mental aspects and nutrition required in these professions. CSU
Offered on occasion

PE 250A. Lifeguard Training I (2)
Lec-17.5, Lab-35 P/NP available
Prereq: PE 255D or Demonstration of PE 255D exit skills and successful demonstration of American Red Cross' required prerequisite swimming skills evaluation.
Designed to provide students with the knowledge and skills to prevent, recognize and respond to aquatic emergencies to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until more advanced medical help arrives. This course adheres to American Red Cross standards for certification in Lifeguarding/First Aid/CPR for Professional Rescuer. UC/CSU
Formerly PE 250
Offered Spring semesters

Fitness Center

PE 200B. Fitness Center Super Circuit (1)
Lab-35 P/NP only
The super circuit located in the Fitness/Wellness Center utilizes an interactive fitness network system providing feedback to the user with

an emphasis on proper use of strength equipment, cardiovascular equipment and individualized fitness programs to promote general strength, muscle toning and cardiac fitness. UC/CSU
Formerly PE 50B. Not intended for students who have completed PE 200C
Offered only in Summer semesters

PE 200C. Fitness Center Super Circuit (2)
Lab-70 P/NP only
The super circuit located in the Fitness/Wellness Center utilizes an interactive fitness network system providing feedback to the user with an emphasis on proper use of strength equipment, cardiovascular equipment and individualized fitness programs to promote general strength, muscle toning and cardiac fitness. UC/CSU
Formerly PE 50C; Not intended for students who have completed PE 200B

PE 200D. Super Cardio Circuit (2)
Lab-70 P/NP only
Prereq: PE 200B or PE 200C
The super cardio circuit located in the Fitness/Wellness Center utilizes an interactive fitness network system providing feedback to the user with an emphasis on aerobic and anaerobic cardiovascular fitness programs to promote advanced cardiac fitness. UC/CSU

PE 200E. Super Strength Circuit (2)
Lab-70 P/NP only
Prereq: PE 200A or PE 200B or PE 200C
The super circuit located in the Fitness/Wellness Center utilizes an interactive fitness network system providing feedback to the user with an emphasis on proper use of strength equipment and the development of an advanced individualized strength training program. UC/CSU

PE 202. Interactive Fitness (2)
Lab-70
Interactive Fitness will allow students to improve fitness levels utilizing pulse/heart rate monitoring, strength training, flexibility exercises and dietary information. Students will learn to create a balanced lifelong exercise program using the outlined training techniques to develop cardiovascular fitness, muscular strength and endurance, flexibility and improvement of dietary knowledge. UC/CSU
Formerly PE 52

Physical Fitness

PE 204A. Beginning Physical Fitness (1)
Lab-35 P/NP available
Emphasis on learning the components of health-related fitness, training principles, and the benefits of being physically active. UC/CSU
Formerly PE 527A

PE 204B. Intermediate Physical Fitness (1)
Lab-35 P/NP available
Recommended Prep: PE 204A or demonstration of exit skills
Intermediate Physical Fitness is an intermediate level class that builds upon beginning components of health-related fitness, training principles, and the benefits of being physically active. Introduction to intermediate level cardiovascular, strength, and core endurance through higher intensity aerobic fitness and plyometric training. UC/CSU
Formerly PE 527B

PE 204C. Advanced Physical Fitness (1)
Lab-35 P/NP available
Recommended Prep: PE 204B or demonstration of exit skills
Advanced Physical Fitness reviews techniques learned in Intermediate Physical Fitness with an emphasis on advanced level of various activities that will increase in intensity to develop increased physical fitness levels and continue to develop health practices that value physical activity and its contribution to lifelong fitness. UC/CSU
Formerly PE 527C
Offered Fall semesters

PE 205A. Beginning Running and Conditioning (1)
Lab-35 P/NP available
An introduction to running and cardiovascular conditioning basics alternating running and fitness walking, flexibility work, strength exercises, and body alignment as vehicles for increased physical activity, cardiovascular conditioning, and range of motion. This course will serve the needs of many students who have not recently been physically active. UC/CSU

PE 205B. Intermediate Running and Conditioning (1)
Lab-35 P/NP available
Recommended Prep: PE 205A or demonstration of exit skills
A review of running form and cardiovascular basics as well as an introduction to the next level of running ability using heart rate measurement to determine high and low aerobic zones. It will also emphasize range of motion, body alignment, and intermediate strength building. The course will expand cardiovascular health parameters, running endurance, flexibility, and core strength for students. UC/CSU

PE 205C. Advanced Running and Conditioning (1)
Lab-35 P/NP available
Recommended Prep: PE 205B or demonstration of exit skills
Advanced endurance and speed techniques will be introduced to enable running greater distances training toward a 5K event. Additional flexibility work and core strengthening will be covered, as well as ways to avoid common injuries. UC/CSU

PE 211A. Beginning Boot Camp Fitness (1)
Lab-35 P/NP available
An introductory course focusing on high-energy group fitness. It will have bursts of intense activity alternated with intervals of lighter activity. The course will be a mix of strength training and aerobic exercises. It will offer a challenging and varied workout in a group setting. CSU

PE 211B. Intermediate Boot Camp Fitness (1)
Lab-35 P/NP available
Recommended Prep: PE 207A or demonstration of exit skills
An intermediate-level course focusing on high-energy group fitness. Featuring bursts of intense activity alternated with intervals of lighter activity, this course offers a mix of strength training and aerobic exercises, a challenging and varied workout in a group setting. CSU

Walking for Wellness

PE 206A. Beginning Walking for Wellness (1)
Lab-35 P/NP available
An introduction to exercise walking and cardiovascular conditioning basics. Emphasis is placed on techniques to improve physical endurance, body alignment, flexibility, and overall wellness. This course will

serve the needs of many students who do not have extensive movement experience. UC/CSU
Formerly PE 206

PE 206B. Intermediate Walking for Wellness (1)
Lab-35 P/NP available
Recommended Prep: PE 206A or demonstration of exit skills
An introduction to power walking and the next level of strength building, flexibility, and endurance to expand cardiovascular health, walking speed, and distances. It is designed to be the next wellness step for students already familiar with introductory exercise walking and physical activity benefits. UC/CSU

PE 206C. Advanced Walking for Wellness (1)
Lab-35 P/NP available
Recommended Prep: PE 206B or demonstration of exit skills
An introduction to race walking techniques for cardiovascular fitness with an emphasis on increasing flexibility, strength, and injury prevention. Walking speed and distance is increased from Intermediate Walking for Wellness. It is particularly suited for students wanting an advanced aerobic challenge without the added pressure on joints produced by running. UC/CSU

Aerobics

DANC 172A. Zumba: Latin Style Dance Forms (1)
Lab-35 P/NP available
A beginning dance aerobic fitness class based upon Latin American dance steps and music. UC/CSU

DANC 172B. Zumba: Street Style Dance Forms (1)
Lab-35 P/NP available
Recommended Prep: DANC 172A
A dance aerobic fitness class using Latin American and Hip Hop dance steps and music. It builds upon the skills learned in Zumba: Latin Style Dance Forms with an emphasis on increased technique, coordination, and increased movement vocabulary related to rhythm and musicality. UC/CSU

PE 210A. Beginning boxercise (1)
Lab-35 P/NP available
Introduction to boxercise as a conditioning fitness class utilizing aerobic/boxing techniques with an emphasis on cardiovascular and muscular endurance. UC/CSU
Formerly PE 210

PE 210B. Intermediate boxercise (1)
Lab-35 P/NP available
Recommended Prep: PE 210A or demonstration of exit skills
Intermediate boxercise builds upon the skills and technique learned in beginning level boxercise class with emphasis on intermediate level terminology and combinations that includes partner and group work and increased aerobic fitness intensity. UC/CSU

Competitive Lifting

PE 212B. Beginning - Intermediate Olympic Weightlifting (1)
Lab-35 P/NP available
Instruction in gross motor skills required to enhance the Olympic Weightlifting experience. Analysis and correction of technical errors, official judging, and application of the rules of Olympic Weightlifting are also covered. UC/CSU
Offered Fall semesters

PE 212C. Advanced Olympic Weightlifting (1)
Lab-35 P/NP available
Prereq: PE 212B
Instruction in advanced Cubanito and Hungarian technical protocols leading to the refinement of fine motor skills required of Olympic Weightlifting. Mechanics and infrastructure of an Olympic Weightlifting competition and the role of the athlete is presented. UC/CSU

PE 212D. Competitive Olympic Weightlifting (1)
Lab-35 P/NP available
Prereq: PE 212B or PE 212C
Instruction in synchronizing gross motor and fine motor skills to achieve successful Olympic Weightlifting attempts. Methodology from Eastern Bloc, Soviets, and China will be used. In addition, students will organize and manage an un-sanctioned Olympic Weightlifting Meet. UC/CSU
Offered on occasion

Strength Training

PE 214A. Beginning Weight Training (1)
Lab-35 P/NP available
Beginning Weight Training emphasizes instruction and implementation of machine weight and free weight training programs. UC/CSU

PE 214B. Intermediate Weight Training (1)
Lab-35 P/NP available
Recommended Prep: PE 214A or demonstration of exit skills
Intermediate Weight Training emphasizes instruction and implementation of intermediate level machine weight and free weight training programs. UC/CSU

PE 215A. Beginning Strength and Interval Training (1)
Lab-35 P/NP available
Beginning Strength and Interval Training emphasizes free weight and machine weight training via a set number of exercises completed with in a timed circuit. UC/CSU
Formerly PE 555A

PE 215B. Intermediate Strength and Interval Training (1)
Lab-35 P/NP available
Recommended Prep: PE 215A or demonstration of exit skills
Intermediate Strength and Interval Training emphasizes free weight and machine weight training via an intermediate level set number of exercises completed with in a timed circuit. UC/CSU
Formerly PE 555B

PE 216A. Beginning Body Sculpting (1)
Lab-35 P/NP available
An introduction to the principles and practices of body sculpting through weight training and the use of various exercise modalities; as well as cardiovascular fitness through circuits and interval training. UC/CSU

PE 216B. Intermediate Body Sculpting (1)
Lab-35 P/NP available
Recommended Prep: PE 216A
An intermediate level of the principles and practices of body sculpting utilizing utilizing specific equipment as well as cardiovascular fitness through circuits and interval training. UC/CSU

Stretching and Flexibility

PE 217A. Beginning Stretching and Flexibility Development (1)
Lab-35 P/NP available
Stretching is a fundamental component of fitness. Emphasis is on techniques to improve flexibility safely and effectively, while enhancing overall fitness and fluidity of movement. Basic muscle groups and types of stretches will be included. UC/CSU
Formerly PE 217

PE 217B. Intermediate Stretching and Flexibility Development (1)
Lab-35 P/NP available
Recommended Prep: PE 217A or demonstration of exit skills
Builds on knowledge and skills from PE 217A Beginning Stretching and Flexibility. Includes isometric and combination stretches, identification of muscle group pairs, basic anatomical terminology, and stretching sequences for specific activities or sports. UC/CSU

Yoga

PE 219A. Beginning Yoga (1)
Lab-35 P/NP available
An introduction to the principles and practice of yoga as a physical discipline. Basic yoga postures, breathing exercises, alignment principles, combination of poses, and relaxation techniques will be included. An overview of the basic philosophy of the physical practice of yoga will be presented. UC/CSU
Formerly PE 554A

PE 219B. Intermediate Yoga (1)
Lab-35 P/NP available
Recommended Prep: PE 219A or demonstration of exit skills
Intermediate yoga will build upon skills learned in beginning yoga. Emphasis will be placed on a representative sample of intermediate level postures and yoga combinations, breathing exercises, and relaxation techniques. A continuation of Hatha yoga philosophy will be presented as well as current trends. UC/CSU
Formerly PE 554B

PE 219C. Advanced Yoga (1)
Lab-35 P/NP available
Recommended Prep: PE 219B or demonstration of exit skills
Advanced yoga will build upon skills learned in intermediate yoga. Emphasis will be placed on a representative sample of advanced level postures and yoga combinations, breathing exercises, and relaxation techniques. A continuation of Hatha yoga history, philosophy, and current trends will be presented. UC/CSU

PE 220. Intensive Yoga (2)
Lab-70 P/NP available
Recommended Prep: PE 219B or demonstration of exit skills
Intensive yoga offers further practice and refinement of intermediate level yoga postures, breathing, and meditation techniques. A continuation of yoga history, philosophy, and current trends will be presented. There is an emphasis on alignment techniques and practical application of yoga principles in daily life. UC/CSU
Formerly PE 654B

Archery

PE 230A. Beginning Archery (1)
Lab-35 P/NP available
Beginning archery includes archery skills, rules, etiquette, safety, methods of shooting and scoring. Students will be instructed to analyze their form and techniques to perform and enjoy the basic sport of archery. Archery falls within the Archery Family. UC/CSU
Formerly PE 501A

PE 230B. Intermediate Archery (1)
Lab-35 P/NP available
Recommended Prep: PE 230A or demonstration of exit skills
Intermediate archery will review basic skills, rules, safety, and scoring. Additional skills and techniques will include improved consistency, an increase in shooting distances, shooting endurance, and mental concentration. UC/CSU
Formerly PE 501B

PE 230C. Advanced Archery (1)
Lab-35 P/NP available
Recommended Prep: PE 230B or demonstration of exit skills
Advanced archery skills to develop improved accuracy and an understanding of archery training for competition. UC/CSU
Offered Fall semesters

Badminton

PE 231A. Beginning Badminton (1)
Lab-35 P/NP available
An introduction to badminton basic skills and game play. Emphasis is placed on learning the ready position, grips, overhead and underhand clear, overhead drop, doubles forehand serve, and forehand and backhand drive. Basic rules and strategy for doubles game play will also be covered. UC/CSU
Formerly PE 503A

PE 231B. Intermediate Badminton (1)
Lab-35 P/NP available
Recommended Prep: PE 231A or demonstration of exit skills
A review of basic badminton stokes such as the clear, forehand doubles serve, overhead drop, and drive. Additional skills will be introduced such as the net drop, smash, block, offensive drive, singles serve, backhand clear, deep forehand clear, and backhand doubles serve. Singles and doubles footwork progressions, court coverage, and strategies will also be covered. It is the next step for students already familiar with the introductory skills of badminton. UC/CSU
Formerly PE 503B

PE 231C. Advanced Badminton (1)
Lab-35 P/NP available
Recommended Prep: PE 231B or demonstration of exit skills
A review of intermediate badminton techniques and an introduction to more advanced badminton court skills and strokes. Rotation systems for doubles and increasingly complex game strategies will also be covered. The course is designed for students who want to continue developing into more highly skilled players. UC/CSU

Baseball/Softball

PE 232A. Beginning Baseball (1)
Lab-35 P/NP available
Analysis and practice of the basic skills, techniques, and theories of baseball through active participation. Students will participate in basic lessons and fundamental drills designed to improve and increase their awareness of the skills involved in learning the fundamental skills of baseball. UC/CSU
Formerly PE 505A
Offered on occasion

PE 232B. Intermediate Baseball (1)
Lab-35 P/NP available
Recommended Prep: PE 232A or demo of exit skills
Analysis and practice of the basic skills, techniques, and theories of baseball through active participation. Students will participate in intermediate lessons and fundamental drills designed to improve and increase their awareness of the skills involved in learning an intermediate level of fundamental skills in baseball. UC/CSU
Formerly PE 505B
Offered on occasion

PE 232C. Advanced Baseball (1)
Lab-35 P/NP available
Recommended Prep: PE 232B or demo of exit skills
Analysis and practice of skills, techniques, theories and advanced training of baseball through active participation. Students will participate in advanced lessons and fundamental drills designed to improve and increase their awareness of the skills and training involved for baseball. UC/CSU
Formerly PE 505C
Offered Fall semesters

PE 239A. Beginning Softball (1)
Lab-35 P/NP available
Analysis and practice of the basic skills, techniques, and theories of softball through active participation. Students will participate in basic lessons and fundamental drills designed to improve and increase their awareness of the skills involved in beginning level softball. UC/CSU
Formerly PE 239
Offered on occasion

PE 239B. Intermediate Softball (1)
Lab-35 P/NP available
Recommended Prep: PE 239A or demonstration of exit skills
Analysis and practice of the intermediate skills, techniques, and theories of softball through active participation. Students will participate in intermediate lessons and drills designed to improve and increase their awareness of the skills involved in intermediate level softball. UC/CSU
Offered on occasion

Basketball

PE 233A. Beginning Basketball (1)
Lab-35 P/NP available
This course will emphasize skill development such as dribbling, shooting, passing, rebounding and defensive techniques necessary to play a beginning level game of basketball. UC/CSU
Formerly PE 506A

PE 233B. Intermediate Basketball (1)
Lab-35 P/NP available
Recommended Prep: PE 233A or demonstration of exit skills
This course will emphasize intermediate levels of skill, agility, body conditioning and endurance as required to play basketball at an intermediate level. UC/CSU
Formerly PE 506B

PE 233C. Advanced Basketball (1)
Lab-35 P/NP available
Recommended Prep: PE 233B or demonstration of exit skills
This course will emphasize skill, agility, body conditioning, and endurance. It will also assess and evaluate advanced theories and systems of play. UC/CSU
Formerly PE 506C

Football

PE 235A. Touch Football (1)
Lab-35 P/NP available
Introduction to the basic fundamentals of touch football that includes basic skills, schematics, rules and play. UC/CSU
Formerly PE 519A
Offered on occasion

PE 235B. Intermediate Touch Football (1)
Lab-35 P/NP available
Recommended Prep: PE 235A or demonstration of exit skills
Review of basic touch football skills such as running, throwing, and catching. Additional skills will be introduced such as intermediate skills and offensive and defensive formations and strategies as well as the kicking game. UC/CSU
Formerly PE 519B
Offered on occasion

PE 235C. Advanced Touch Football (1)
Lab-35 P/NP available
Recommended Prep: PE 235B or demonstration of exit skills
Review of beginning and intermediate football skills and offensive and defensive strategies with an emphasis on game situations. Advanced skills and strategies will be introduced and teaching will be supplemented through video analysis. UC/CSU
Formerly PE 519C
Offered only in Summer semesters

Golf

PE 236A. Beginning Golf (1)
Lab-35 P/NP available
Instruction in the basic fundamentals of the game of golf. The structure of the course emphasizes the principles of the full swing, chip shot, putting, history, basic rules of play, golf etiquette, and terminology. UC/CSU
Formerly PE 520A

PE 236B. Intermediate Golf (1)
Lab-35 P/NP available
Recommended Prep: PE 236A or demonstration of exit skills
This course demonstrates more advanced skills needed to be able to play a round of golf. The structure of the course emphasizes the principles of the full swing, the chip, putting, advanced knowledge of the rules of golf, demonstration of golf etiquette, and capability to play nine holes of golf. UC/CSU
Formerly PE 520B

Soccer

PE 238A. Beginning Soccer (1)
Lab-35 P/NP available
Emphasis on rules and laws of the game, systems of play, technical skills, and soccer-specific conditioning. UC/CSU
Formerly PE 534A

PE 238B. Intermediate Soccer (1)
Lab-35 P/NP available
Recommended Prep: PE 238A or demonstration of exit skills
Emphasis on rules and laws of the game, systems of play, technical skills, and soccer-specific conditioning at the intermediate level. UC/CSU
Formerly PE 534B

PE 238C. Advanced Soccer (1)
Lab-35 P/NP available
Recommended Prep: PE 238B or demonstration of exit skills
Emphasis on rules and laws of the game, systems of play, technical skills, and soccer-specific conditioning at the advanced level. UC/CSU
Formerly PE 534C
Offered on occasion

Tennis

PE 240A. Beginning Tennis (1)
Lab-35 P/NP available
The course will cover beginning fundamental skills of tennis. Emphasis will be on rules, terminology, court etiquette and basic strokes: forehand, backhand, volley, overhead, and serve. UC/CSU
Formerly PE 542A

PE 240B. Intermediate Tennis (1)
Lab-35 P/NP available
Recommended Prep: PE 240A or demonstration of exit skills
The intermediate course will review rules, etiquette, basic skills, strokes and footwork, scoring and strategy. Emphasis will be on shot placement and use of spins in fundamental strokes. UC/CSU
Formerly PE 542B

PE 240C. Advanced Tennis (1)
Lab-35 P/NP available
Recommended Prep: PE 240B or demonstration of exit skills
Review the basics; rules, etiquette, basic skills, strokes and footwork, scoring and strategy. Emphasis on spins and placement and advanced strategies. UC/CSU
Formerly PE 542C

PE 243A. Cardio Tennis (1)
Lab-35 P/NP available
Combines tennis skills and drills with high energy fitness activity. Emphasis of the class is to train for tennis and burn calories. Students will engage in tennis specific activities, drills, and movements designed to keep the heart rate in the training zone. UC/CSU
Offered only in Summer semesters

PE 244A. Competitive Tennis Doubles (1)
Lab-35 P/NP available
Prereq: PE 240A or demonstration of exit skills
Emphasis of this class will be on doubles strategies and tactics during competition. Ball drills will be used to enhance competitive play. Movement specific to doubles and conditioning will also be emphasized. UC/CSU
Offered only in Summer semesters

Volleyball

PE 242A. Beginning Volleyball (1)
Lab-35 P/NP available
This is an introduction to the sport of volleyball, examining and performing the skills required for game play. Analysis and correction of basic team strategies and application of volleyball rules are also covered. UC/CSU
Formerly PE 545A

PE 242B. Intermediate Volleyball (1)
Lab-35 P/NP available
Recommended Prep: PE 242A or demonstration of exit skills
This course is designed to teach the intermediate skills and techniques of the sport of volleyball. The student will review basic volleyball skills such as pass, set, serve and spike. In addition, the student will be introduced to additional intermediate skills such as 2-person block, jump service, multiple offenses and center back defense. UC/CSU
Formerly PE 545B

PE 242C. Advanced Volleyball (1)
Lab-35 P/NP available
Recommended Prep: PE 242B or demonstration of exit skills
This course is designed to teach advanced skills and techniques of the sport of volleyball as well as additional volleyball skills, strategies, officiating, and coaching information. . UC/CSU
Formerly PE 545C

Aquatics Exercise

PE 174A. Beginning Aqua Zumba (1)
Lab-35 P/NP available
A low-impact water exercise course designed to improve muscular strength, flexibility, balance, and cardiovascular fitness. Non-swimming exercises will involve Latin-based dance steps and variations using Aqua Zumba dance vocabulary and music. UC/CSU
Formerly PE 173A

PE 252A. Beginning Water Aerobics (1)
Lab-35 P/NP available
A non-swimming and low impact water exercise course designed to improve muscular strength, flexibility, balance and cardiovascular fitness. Exercises will involve variations in movement and tempo to achieve these fitness improvements. UC/CSU

PE 252B. Intermediate Water Aerobics (1)
Lab-35 P/NP available
Recommended Prep: PE 252A or demonstration of exit skills
A review of water aerobics form and cardiovascular basics as well as an introduction to moderate intensity water exercises, using heart rate measurement to determine aerobics zones. Increased range of motion, muscular strength, flexibility, agility, balance, core strength and cardiovascular fitness will be emphasized, while reducing stress on the body. UC/CSU

PE 252C. Advanced Water Aerobics (1)
Lab-35 P/NP available
Recommended Prep: PE 252B or demonstration of exit skills
Advanced Water Aerobics builds upon skills learned in intermediate water aerobics with emphasis on increasing vocabulary and physical skills by incorporating higher intensity water exercises. Students will improve range of motion, muscular strength, flexibility, agility, balance, core strength and cardiovascular fitness, while reducing stress on the body. UC/CSU

PE 252D. Intensive Water Aerobics (1)
Lab-35 P/NP available
Recommended Prep: 252C or demonstration of exit skills
Intensive Water Aerobics build upon skills learned in advanced water aerobics, and continues to expand on vocabulary and skills with high intensity interval training (HIIT) water exercises. Students will improve range of motion, muscular strength, flexibility, agility, balance, core strength and cardiovascular fitness, while reducing stress on the body. UC/CSU

Aquatics Swim Development

PE 254. Novice Swimming (1)
Lab-35 P/NP available
A course designed for the non-swimmer, introducing water safety and basic swimming skills, including physical and mental adjustments to water, floating and basic strokes. UC/CSU

PE 255A. Beginning Swimming (1)
Lab-35 P/NP available
Recommended Prep: PE 254 or demo of exit skills
A course designed for the non-swimmer, providing instruction in fundamental swimming and personal water safety skills. UC/CSU

PE 255B. Advanced Beginning Swimming (1)
Lab-35 P/NP available
Recommended Prep: PE 255A or demonstration of exit skills
A course designed to support students in improving fundamental aquatic skills and provide instruction in swimming stroke development. Deep water swimming and survival techniques will be emphasized. UC/CSU

PE 255C. Intermediate Swimming (1)
Lab-35 P/NP available
Recommended Prep: PE 255B or demonstration of exit skills
In-depth instruction in long axis competitive swimming strokes (freestyle and backstroke). Current practices and development of competitive swimming, biomechanics of long axis swimming strokes, turns, and water safety will be covered. UC/CSU

PE 255D. Advanced Swimming (1)
Lab-35 P/NP available
Recommended Prep: PE 255C or demonstration of exit skills
An advanced level stroke development course emphasizing short axis strokes (breaststroke and butterfly) leading to increased stroke proficiency. It refines aquatic posture line and balance and improves coordination of parts of a stroke into whole strokes and racing turns and finishes. UC/CSU

PE 255E. Masters Swimming (1)
Lab-35 P/NP available
Recommended Prep: PE 255D or demonstration of exit skills
Instruction, analysis and practice in mastery level of competitive swimming skills and techniques, leading to high level of stroke proficiency in four competitive swimming strokes. Competitive swimming events and racing strategies will be emphasized. UC/CSU

Aquatics Fitness

PE 256A. Beginning Fitness Swimming (1)
Lab-35 P/NP only
Recommended Prep: PE 255B or demonstration of exit skills
Designed to engage students in comprehensive cardiovascular exercise through the activity of lap swimming. Emphasizes the physiological value of swimming to obtain cardiovascular fitness, muscular strength, and overall wellness. UC/CSU

PE 256B. Advanced Beginning Fitness Swimming (1)
Lab-35 P/NP only
Recommended Prep: PE 256A or demonstration of exit skills
A review of swimming form, cardiovascular basics and general principles of exercise, as well as an introduction to the next level of fitness swimming and the use of heart rate measurement to determine high and low aerobic zones. The course will also emphasize range of motion, body alignment, and strength building. UC/CSU

PE 256C. Intermediate Fitness Swimming (1)
Lab-35 P/NP only
Recommended Prep: PE 256B or demonstration of exit skills
An introduction to more advanced endurance and speed techniques to enable swimming greater distances. Additional flexibility work and core strengthening will be introduced, as well as ways to avoid common swimming injuries. UC/CSU

PE 256D. Advanced Fitness Swimming (1)
Lab-35 P/NP only
Recommended Prep: PE 256C or demonstration of exit skills
Advanced fitness swimming builds upon skills and training learned previously, with emphasis on continued improvement of fitness swimmer's cardiovascular endurance. Students will learn how to administer swimming fitness assessments and build skills to train and participate in distance swimming events. UC/CSU

Aquatics Water Polo

PE 258A. Beginning Water Polo (1)
Lab-35 P/NP available
Recommended Prep: PE 255C or demonstration of exit skills
An introduction to water polo basic skills and game play. Emphasis is placed on learning the head-up freestyle, eggbeater, passing, receiving and shooting. Basic rules and game play positions will also be covered. UC/CSU

PE 258B. Advanced Beginning Water Polo (1)
Lab-35 P/NP available
Recommended Prep: PE 258A or demonstration of PE 258A exit skills
Advanced Beginning Water Polo builds on the skills of beginning water polo with an emphasis on familiarization with vocabulary, conditioning drills, passing, shooting, and development of individual offensive and defensive skills to better prepare the student for the intermediate level. UC/CSU

PE 258C. Intermediate Water Polo (1)
Lab-35 P/NP available
Recommended Prep: PE 258B or demonstration of PE 258B exit skills.
Intermediate drills and half court scrimmage designed to further develop skills and knowledge of techniques, rules and strategies for water polo. Class will emphasize half court offense and defense, developing players at specific positions and introduction to specific team plays and strategies. UC/CSU

PE 258D. Advanced Water Polo (1)
Lab-35 P/NP available
Prereq: PE 258C or demonstration of PE 258C exit skills
This course covers many facets of water polo at the advanced level while also reviewing individual skills such as passing, shooting, dribbling, and picking up the ball in water. Advanced offensive and defensive water polo strategies are emphasized. Advanced levels of conditioning supplement team play and scrimmages. UC/CSU

Alternative Racket Sports

PE 260A. Beginning Pickleball (1)
Lab-35 P/NP available
This course will cover the beginning skills of pickleball. Emphasis on fundamental strokes, rules, terminology, and etiquette. UC/CSU

PE 260B. Intermediate Pickleball (1)
Lab-35 P/NP available
Recommended Prep: PE 260A
This course will cover the intermediate aspects of pickleball. Emphasis on strokes, strategies, spins, and shot placement. UC/CSU

PE 260C. Advanced Pickleball (1)
Lab-35 P/NP available
Recommended Prep: PE 260B or demonstration of exit skills
Instruction in the advanced aspects of pickleball, as well as a review of the rules, etiquette, and skills. Emphasis on offensive and defensive singles and doubles strategies, as well as tournament match play. CSU

Judo

PE 271A. Beginning Judo (1)
Lab-35 P/NP available
An introduction to Kodokan judo, an Olympic sport, focusing on fundamental judo techniques, skills and physical fitness. An examination of judo's development, philosophy, etiquette and principles. UC/CSU
Formerly PE 524A

PE 271B. Intermediate Judo (1)
Lab-35 P/NP available
Recommended Prep: PE 271A or demonstration of exit skills
In addition to new skills and techniques, students will be required to demonstrate greater proficiency in basic skills and techniques covered in the introductory course. Students will be eligible to test for the next Judo belt rank during the semester. UC/CSU
Formerly PE 524B

PE 271C. Advanced Judo (1)
Lab-35 P/NP available
Recommended Prep: PE 271B or demonstration of exit skills
Intermediate to advanced skill instruction and application of Nage-waza (throwing), Osae-waza (grappling/submission), with Randori (free exercise). Principles of Sei-ryo-ku Zen you and Jita-Kyoei, the training of mind and body of a person that contributes to society will be examined. Tournament supervision of the judo tournament will be covered. UC/CSU
Formerly PE 524C
Offered Fall semesters

PE 271D. Competition Judo (1)
Lab-35 P/NP available
Recommended Prep: PE 271C or demonstration of exit skills
Instruction and participation in judo competition. Strategy and tactics will be covered in detail. Students will have the opportunity to test for their next rank during the semester. UC/CSU
Offered Spring semesters

Jujitsu

PE 274A. Beginning Jiu-jitsu (1)
Lab-35 P/NP available
Instruction in submission techniques of Brazilian Jiu-jitsu. Students will learn specific offensive/defensive techniques to be used against an attacker along with escapes and submissions from a variety of different attacks. Participation in beginning level sparring will be learned with particular attention to safety. UC/CSU

PE 274B. Intermediate Jiu-jitsu (1)
Lab-35 P/NP available
Recommended Prep: PE 274A or demonstration of exit skills
Provides students the opportunity to continue their study of Brazilian jiu-jitsu, to develop greater self confidence with social and leadership skills. In addition to intermediate skills sets, students will be required to demonstrate greater proficiency in basic skills and techniques covered in the introductory course. UC/CSU
Offered Spring semesters

PE 274C. Advanced Jiu-jitsu (1)
Lab-35 P/NP available
Recommended Prep: PE 274B or demonstration of exit skills
Brazilian Jiu-jitsu emphasizing solid defense with the ability to escape from all the major positions. Achieve movement objectives through combinations and momentum of one's own body weight. Administration of the Jiu-jitsu tournament will also be covered. UC/CSU
Offered on occasion

PE 274D. Competition Jiu-jitsu (1)
Lab-35 P/NP available
Recommended Prep: PE 274C or demonstration of exit skills
Competition jiu-jitsu will familiarize the student with the different combinations and transitions along with the review of basic, intermediate and advance skill sets. The student will be encourage to develop their own competitive style. Competition strategy and tactics will be covered in detail. UC/CSU
Offered on occasion

Taekwondo

PE 276A. Beginning Taekwondo (1)
Lab-35 P/NP available
Beginning-level Taekwondo competitive sport skills instruction and practice. The course includes beginning-level kicks, blocks and punches with an emphasis on self-defense, as well as the history, philosophy, vocabulary, and etiquette. UC/CSU
Formerly PE 580A

PE 276B. Intermediate Taekwondo (1)
Lab-35 P/NP available
Recommended Prep: PE 276A or demonstration or exit skills
Intermediate-level Taekwondo competitive sport skills instruction and practice. The course includes intermediate-level kicks, blocks and punches with an emphasis on self-defense, as well as the history, philosophy, vocabulary, and etiquette. UC/CSU
Formerly PE 580B

Physical Education Athletics

Credit, Degree Applicable Courses:

PE A 60. Women's Intercollegiate Soccer (3)
Lab-175, field trips P/NP available
Prereq: CCCAA athletic and academic eligibility standards
Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in Women's Intercollegiate Soccer representing City College of San Francisco, in the Coast Conference and the California Community Colleges Athletic Association (CCCAA). UC/CSU
Formerly PE 450
Offered Fall semesters

PE A 61. Intercollegiate Badminton (Women) (3)
Lab-175, field trips P/NP available
Prereq: California Community College Athletic Association (CCCAA) athletic and academic eligibility standards.

Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco
Repeat: Students can repeat three times (total 4 enrollments)
Advanced instruction, practice, and competition in Women's Intercollegiate Badminton representing City College of San Francisco. Student-athletes must meet eligibility requirements as designated by the California Community Colleges Athletic Association (CCCAA). UC/CSU
Formerly PE 451
Offered Spring semesters

PE A 62. Intercollegiate Women's Swim (3)
Lab-175, field trips P/NP available
Prereq: California Community College Athletic Association (CCCAA) athletic and academic eligibility standards.
Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco.
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in Intercollegiate Women's Swimming representing City College of San Francisco, in the Coast Conference and the California Community Colleges Athletic Association (CCCAA), emphasizing skills, fundamentals and strategies. UC/CSU
Formerly PE 461
Offered Spring semesters

PE A 63. Intercollegiate Women's Tennis (3)
Lab-175, field trips P/NP available
Prereq: Athletic clearance (eligible by rules of the CCCAA and medical clearance verified by a physician)
Repeat: Students can repeat three times (total 4 enrollments)
Advanced instruction, practice and team preparation for the women's intercollegiate tennis team in order to compete and participate in the Coast Athletic Conference. UC/CSU
Formerly PE 453
Offered Spring semesters

PE A 65. Intercollegiate Women's Basketball (3)
Lab-175, field trips
Prereq: CCCAA athletic and academic eligibility standards
Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco
Repeat: Students can repeat three times (total 4 enrollments)
Instruction for competition and participation in Women's Intercollegiate Basketball in the Coast Conference -North Division of the California Community College Athletic Association UC/CSU
Formerly PE 455
Offered Fall semesters

PE A 66. Intercollegiate Women's Track & Field (3)
Lab-175, field trips P/NP available
Prereq: California Community College Athletic Association (CCCAA) athletic and academic eligibility standards.
Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco.
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in intercollegiate track and field representing City College of San Francisco, in the Coast Conference and the California Community Colleges Athletic Association (CCCAA). UC/CSU
Formerly PE 456
Offered Spring semesters

PE A 67. Intercollegiate Softball for Women (3)
Lab-175, field trips P/NP available
Prereq: California Community College Athletic Association (CCCAA) athletic and academic eligibility standards.
Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco.
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in intercollegiate softball representing City College of San Francisco, in the Coast Conference of the California Community College Athletic Association. UC/CSU
Formerly PE 457
Offered on occasion

PE A 68. Intercollegiate Women's Volleyball (3)
Lab-175, field trips P/NP available
Prereq: CCCAA athletic and academic eligibility standards
Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in intercollegiate volleyball representing City College of San Francisco, in the Coast Conference of the California Community College Athletic Association. UC/CSU
Formerly PE 458
Offered Fall semesters

PE A 69. Intercollegiate Women's Cross Country (3)
Lab-175, field trips P/NP available
Prereq: California Community College Athletic Association (CCCAA) athletic and academic eligibility standards.
Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco.
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in Intercollegiate Cross Country representing City College of San Francisco, in the Coast Conference and the California Community Colleges Athletic Association (CCCAA). UC/CSU
Formerly PE 459
Offered Fall semesters

PE A 80. Intercollegiate Baseball for Men (3)
Lab-175, field trips P/NP available
Prereq: California Community College Athletic Association (CCCAA) athletic and academic eligibility standards.
Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco.
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in intercollegiate baseball representing City College of San Francisco, in the Coast Conference of the California Community College Athletic Association. UC/CSU
Formerly PE 400
Offered Spring semesters

PE A 81. Intercollegiate Men's Basketball (3)
Lab-175, field trips P/NP available
Prereq:CCCAA athletic and academic eligibility standards.
Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in intercollegiate basketball representing City College of San Francisco in the Coast

Conference of the California Community College Athletic Association (CCCAA). UC/CSU
Formerly PE 401
Offered Fall semesters

PE A 82. Intercollegiate Men's Cross Country (3)
Lab-175, field trips P/NP available
Prereq: California Community College Athletic Association (CCCAA) athletic and academic eligibility standards. Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco.
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in Intercollegiate Cross Country representing City College of San Francisco, in the Coast Conference and the California Community Colleges Athletic Association (CCCAA). UC/CSU
Formerly PE 402
Offered Fall semesters

PE A 83. Intercollegiate Athletics for Men-Football (3)
Lab-175 P/NP available
Prereq: CCCAA athletic and academic eligibility standards. Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco.
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in intercollegiate football representing City College of San Francisco, in the National Bay 6 Conference of the California Community College Athletic Association. UC/CSU
Formerly PE 403
Offered Fall semesters

PE A 85. Intercollegiate Men's Soccer (3)
Lab-175 P/NP available
Prereq: CCCAA athletic and academic eligibility standards Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco.
Repeat: Students can repeat three times (total 4 enrollments)
Instruction for competition and participation in Men's Intercollegiate Soccer in the Coast Conference of the California Association of Community Colleges. UC/CSU
Formerly PE 405
Offered Fall semesters

PE A 88. Intercollegiate Men's Track & Field (3)
Lab-175, field trips P/NP available
Prereq: California Community College Athletic Association (CCCAA) athletic and academic eligibility standards. Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco.
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in intercollegiate track and field representing City College of San Francisco in the Coast Conference and the California Community Colleges Athletic Association (CCCAA). UC/CSU
Formerly PE 408
Offered Spring semesters

PE A 89. Women's Intercollegiate Water Polo (3)
Lab-175, field trips P/NP available
Prereq: California Community College Athletic Association (CCCAA) athletic and academic eligibility standards. Satisfactory physical examination by a physician (medical doctor) approved by City College of San Francisco.
Repeat: Students can repeat three times (total 4 enrollments)
Instruction and scheduled competitions for participation in Women's Intercollegiate Water Polo representing City College of San Francisco, in the Coast Conference and the California Community Colleges Athletic Association (CCCAA). UC/CSU
Offered Fall semesters

PE A 96. Intensive Intercollegiate Physical Preparation (.5)
Lab-17.5, field trips P/NP available
Recommended Prep: PE A 97
Repeat: Students can repeat three times (total 4 enrollments)
Utilizes high intensity interval training methodology to accelerate sport-specific metabolic demands for successful individual athletic performance. UC/CSU
Offered only in Summer semesters

PE A 97. Special Physical Preparation for Intercollegiate Sport (1)
Lab-35, field trips P/NP available
Recommended Prep: PE A 98 or demonstration of exit skills
Repeat: Students can repeat three times (total 4 enrollments)
Emphasizes speed, agility, and quickness development training to reduce risk of physical injury, increase athleticism, and improve body mechanics. This class will focus on enhancing each individual's speed, quickness, agility, and body control relative to sport performance. UC/CSU
Offered only in Summer semesters

PE A 98. General Physical Preparation for Intercollegiate Sport (2)
Lab-70, field trips P/NP available
Repeat: Students can repeat three times (total 4 enrollments)
This course establishes foundation for later sport-specific physical preparation and intense training. Its primary emphasis is general preparation and some specialized skills and strength conditioning exercises to work all the major muscles and joints. Key areas of study will also include sports injuries prevention and rehabilitation, nutrition, and mental skills. UC/CSU
Offered Spring semesters

PE A 99. Intercollegiate Sport Development (3)
Lab-175 P/NP available
Repeat: Students can repeat three times (total 4 enrollments)
Sport-specific strength and conditioning protocols related to improving muscular strength, power, agility, and speed. Principles of sport-specific technical and tactical methodology will be presented. Injury prevention, restoration and recovery will also be addressed. UC/CSU
Formerly PE 584
Offered Fall semesters

Physics

Office: Science 185
Phone Number: (415) 239-3467
Web Site: *www.ccsf.edu/physics*

Announcement of Curricula

Physics Major (AS)

The Associate in Science in Physics provides a broad background in fundamental physics through introductory course work with a full complement of laboratory courses. Physics graduates are prepared to transfer to California State University, University of California, and

other universities for career paths in high tech research, engineering, and education. A physics degree is also a respected preparation for postgraduate studies in medical, business, and law school due to the prevalence of technology in our society. Physics majors develop strong mathematical, analytical, and laboratory skills, and a solid understanding of the fundamental physical laws that govern the universe.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply the principles of physics to theoretical problems and experimental applications.
- Obtain, analyze, and report on physics laboratory data.
- Solve physics problems using mathematics through multivariable calculus, differential equations, and linear algebra.

Assuming students start this AS with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Major in Physics

Course	Units
Required	
PHYC 4A Classical Mechanics for Scientists and Engineers	3.0
PHYC 4AL Mechanics Laboratory for Scientists and Engineers	1.0
PHYC 4B Electromagnetism for Scientists and Engineers	3.0
PHYC 4BL Electromagnetism Laboratory for Scientists and Engineers	1.0
PHYC 4C Waves and Thermodynamics for Scientists and Engineers	3.0
PHYC 4CL Waves and Thermodynamics Laboratory for Scientists and Engineers	1.0
PHYC 4D Modern Physics for Scientists and Engineers	3.0
PHYC 4DL Modern Physics Laboratory for Scientists and Engineers	1.0
MATH 110A Calculus I	5.0
MATH 110B Calculus II	5.0
MATH 110C Calculus III	5.0
MATH 130 Linear Algebra and Differential Equations	5.0
or MATH 120 Linear Algebra	3.0
and MATH 125 Differential Equations	3.0
Total:	**36.0 – 37.0**

Announcement of Courses

Credit, Degree Applicable Courses:

PHYC 2A. Introductory Physics I (3)
Lec-52.5, Lab-17.5
Prereq: MATH 95
Recommended Prep: Completion of or concurrent enrollment in: PHYC 2AL and PHYC 41
First course in a two-semester sequence required of most premedical, biology, veterinary, physical therapy, and architecture degrees. Core topics include kinematics, dynamics, work and energy, momentum, rotations, simple harmonic motion, fluids, heat, and thermodynamics. UC/CSU
C-ID PHYS 100S (PHYC 2A + PHYC 2AL + PHYC 2B + PHYC 2BL); C-ID PHYS 105 (PHYC 2A + PHYC 2AL)
Formerly "Introductory Physics." Required of premedical, biology, and some architecture students.
Offered Fall Semesters

PHYC 2AC. Introductory Physics I-Calculus Supplement (.5)
Lec-14
Prereq: MATH 100A or MATH 110A or placement in MATH 100B or 110B; Completion of or concurrent enrollment in: PHYC 2A
PHYC 2AC expands on topics covered in PHYC 2A, with applications of calculus to problems in physics. Together with PHYC 2A and 2AL, PHYC 2AC may meet lower division requirements for life science majors at various universities. UC/CSU
Formerly Introductory Physics-Calculus Supplement
Offered Fall Semesters

PHYC 2AL. Introductory Physics Laboratory (1)
Lab-52.5
Prereq: MATH 95; Completion of or concurrent enrollment in: PHYC 2A
Recommended Prep: PHYC 40
First laboratory course in an algebra-based two semester sequence. Core topics include experiments in kinematics, dynamics, energy, momentum, rotation, oscillations, fluids, and thermodynamics. UC/CSU
C-ID PHYS 100S (PHYC 2A + PHYC 2AL + PHYC 2B + PHYC 2BL); C-ID PHYS 105 (PHYC 2A + PHYC 2AL)
Required of premedical, biology, and some architecture students.
Offered Fall Semesters

PHYC 2B. Introductory Physics II (3)
Lec-52.5, Lab-17.5
Prereq: PHYC 2A
Recommended Prep: Completion of or concurrent enrollment in: PHYC 2BL
Second course in an algebra/trigonometry-based two semester sequence. Core topics include electricity & magnetism, light, and selected topics in modem physics. UC/CSU
C-ID PHYS 100S (PHYC 2A + PHYC 2AL + PHYC 2B + PHYC 2BL); C-ID PHYS 110 (PHYC 2B + PHYC 2BL)
Formerly "Introductory Physics." Required of premedical, biology, and some architecture students.
Offered Spring Semesters

PHYC 2BC. Introductory Physics II-Calculus Supplement (.5)
Lec-14
Prereq: PHYC 2AC and PHYC 2A; Completion of or concurrent enrollment in: PHYC 2B
PHYC 2BC expands on topics covered in PHYC 2B with applications of calculus to problems in physics. Together with PHYC 2B and 2BL, PHYC 2BC may meet lower division requirements for life science majors at various universities. UC/CSU
Formerly Intro Physics-Calculus Suppl
Offered Spring semesters

PHYC 2BL. Introductory Physics Laboratory (1)
Lab-52.5
Prereq: PHYC 2A and PHYC 2AL; Completion of or concurrent enrollment in: PHYC 2B
Second laboratory course in an algebra-based two semester sequence.

Core topics include experiments in electricity & magnetism, electric circuits, light, and radioactivity. UC/CSU
C-ID PHYS 100S (PHYC 2A + PHYC 2AL + PHYC 2B + PHYC 2BL)
C-ID PHYS 110 (PHYC 2B + PHYC 2BL)
Required of premedical, biology, and architecture students
Offered Spring Semesters

PHYC 4A. Classical Mechanics for Scientists and Engineers (3)
Lec-52.5, Lab-17.5
Prereq: MATH 110A
Recommended Prep: PHYC 41 or high school physics; Completion of or concurrent enrollment in: PHYC 4AL and MATH 110B
This is the first course in a calculus-based four-semester sequence. Core topics include kinematics, dynamics, energy, momentum, rotation, gravitation, oscillations, and fluids. UC/CSU
C-ID PHYS 200S (PHYC 4A + PHYC 4AL + PHYC 4B + PHYC 4BL + PHYC 4C + PHYC 4CL + PHYC 4D + PHYC 4DL); C-ID PHYS 205 (PHYC 4A + PHYC 4AL)
Required of physics, chemistry, and engineering majors planning to transfer to University of California, Berkeley or into other engineering or physical science transfer programs.

PHYC 4AL. Mechanics Laboratory for Scientists and Engineers (1)
Lab-52.5
Prereq: Completion of or concurrent enrollment in: PHYC 4A
First laboratory course in a calculus-based four-semester sequence. Core topics include experiments in kinematics, dynamics, energy, momentum, rotation, and oscillations. UC/CSU
C-ID PHYS 200S (PHYC 4A + PHYC 4AL + PHYC 4B + PHYC 4BL + PHYC 4C + PHYC 4CL + PHYC 4D + PHYC 4DL); C-ID PHYS 205 (PHYC 4A + PHYC 4AL)
C-ID PHYS 205 (PHYC4A + 4AL); C-ID PHYS 200S (PHYC 4A + 4AL + 4B + 4BL + 4C + 4CL + 4D + 4DL)

PHYC 4B. Electromagnetism for Scientists and Engineers (3)
Lec-52.5, Lab-17.5
Prereq: PHYC 4A and MATH 110B
Recommended Prep: Completion of or concurrent enrollment in: PHYC 4BL and MATH 110C
This is the second course in a calculus-based four-semester sequence. Core topics include electric and magnetic fields, electric potential, capacitance, resistance, inductance, DC and AC circuits, and Maxwell's Equations. UC/CSU
C-ID PHYS 200S (PHYC 4A + PHYC 4AL + PHYC 4B + PHYC 4BL + PHYC 4C + PHYC 4CL + PHYC 4D + PHYC 4DL); C-ID PHYS 210 (PHYC 4B + PHYC 4BL)
Required of physics, chemistry, and engineering majors planning to transfer to University of California, Berkeley or into other engineering or physical science transfer programs.

PHYC 4BL. Electromagnetism Laboratory for Scientists and Engineers (1)
Lab-52.5
Prereq: PHYC 4AL; Completion of or concurrent enrollment in: PHYC 4B
Second laboratory course in a calculus-based four-semester sequence covering the topics of electricity and magnetism. UC/CSU
C-ID PHYS 200S (PHYC 4A + PHYC 4AL + PHYC 4B + PHYC 4BL + PHYC 4C + PHYC 4CL + PHYC 4D + PHYC 4DL); C-ID PHYS 210 (PHYC 4B + PHYC 4BL)
C-ID PHYS 210 (PHYC4B + 4BL); C-ID PHYS 200S (PHYC 4A + 4AL+ 4B + 4BL +4C + 4CL + 4D + 4DL)

PHYC 4C. Waves and Thermodynamics for Scientists and Engineers (3)
Lec-52.5, Lab-17.5
Prereq: PHYC 4B and MATH 110C
Recommended Prep: Completion of or concurrent enrollment in: PHYC 4CL
This is the third course in a calculus-based four-semester sequence. Core topics include mechanical, sound and light waves; geometrical and physical optics; and thermodynamics. UC/CSU
C-ID PHYS 200S (PHYC 4A + PHYC 4AL + PHYC 4B + PHYC 4BL + PHYC 4C + PHYC 4CL + PHYC 4D + PHYC 4DL); C-ID PHYS 215 (PHYC 4C + PHYC 4CL)
Required of physics, chemistry, and engineering majors planning to transfer to University of California, Berkeley or into other engineering or physical science transfer programs.

PHYC 4CL. Waves and Thermodynamics Laboratory for Scientists and Engineers (1)
Lab-52.5
Prereq: PHYC 4BL; Completion of or concurrent enrollment in: PHYC 4C
Third laboratory course in a calculus-based four-semester sequence. Core topics include experiments in sound, waves, electrical oscillations, thermodynamics, geometrical optics, and physical optics. UC/CSU
C-ID PHYS 200S (PHYC 4A + PHYC 4AL + PHYC 4B + PHYC 4BL + PHYC 4C + PHYC 4CL + PHYC 4D + PHYC 4DL); C-ID PHYS 215 (PHYC 4C + PHYC 4CL)

PHYC 4D. Modern Physics for Scientists and Engineers (3)
Lec-52.5, Lab-17.5
Prereq: PHYC 4B
Coreq: (MATH 120 and MATH 125) or MATH 130
Recommended Prep: Completion of or concurrent enrollment in: PHYC 4C and PHYC 4CL
This is the fourth course in a calculus-based four semester sequence. Core topics include special relativity, quantum mechanics, atomic physics and solid state physics. UC/CSU
C-ID PHYS 200S (PHYC 4A + PHYC 4AL + PHYC 4B + PHYC 4BL + PHYC 4C + PHYC 4CL + PHYC 4D + PHYC 4DL)
Required of physics, chemistry, and engineering majors planning to transfer to the University of California, Berkeley, or into other engineering or physical science transfer programs.
Offered Spring semesters

PHYC 4DL. Modern Physics Laboratory for Scientists and Engineers (1)
Lab-52.5
Prereq: PHYC 4BL; Completion of or concurrent enrollment in: PHYC 4D
Last laboratory course in a calculus-based four-semester sequence. Core topics include experiments in modern physics, including the Michelson interferometer, photoelectric effect, longitudinal laser modes, Zeeman effect, and atomic spectra. UC/CSU
C-ID PHYS 200S (PHYC 4A + PHYC 4AL + PHYC 4B + PHYC 4BL + PHYC 4C + PHYC 4CL + PHYC 4D + PHYC 4DL)
Offered Spring semesters

PHYC 10. Conceptual Physics (3)
Lec-52.5
Recommended Prep: Elementary algebra or higher
An overview of physics. Content is taught at a conceptual level using basic math such as ratios, square roots, scientific notation, graph interpretation, slope and simple algebra. Topics include mechanics, properties of matter, heat, sound, electricity, magnetism, light, and nuclear physics. UC/CSU

PHYC 10L. Conceptual Physics Laboratory (1)
Lab-52.5
Prereq: Completion of or concurrent enrollment in: PHYC 10
Laboratory course covering basic concepts in physics. Core topics include mechanics, energy, heat, sound, electricity, magnetism, light, and nuclear physics. UC/CSU
Required for students enrolled in the curriculum in RADL

PHYC 20. Physics of Sports (3)
Lec-52.5
Recommended Prep: Elementary algebra or higher
Conceptual physics taught within the context of sports including football, baseball, soccer, cycling, and tennis. Content is taught at an introductory level using basic math such as vectors, ratios, square roots, and algebra. Topics include Newton's laws, projectile and rotational motion, momentum, energy, and aerodynamics. UC/CSU
Offered Fall Semesters

PHYC 41. Preparatory Physics (3)
Lec-52.5
Prereq: ((MATH 90 or MATH 92) and MATH 95) or placement in MATH 110A
Recommended Prep: Completion of or concurrent enrollment in: MATH 110A
A single semester course emphasizing concepts and problem solving in kinematics, dynamics, energy, momentum, rotational motion and electricity. This course is intended to prepare students to take a college level, problem solving based, physics course using calculus. UC/CSU
Offered Fall Semesters

Pilipino*

* See Philippine Studies.

Political Science

Office: Batmale 656
Phone Number: (415) 239-3330
Web Site: *www.ccsf.edu/socialsci*

Announcement of Curricula

Political Science Major (AA-T)

Political Science is the study of governments, power relations, public policies, political theories, political processes, and political behavior. The Political Science major is designed to develop knowledge, analytical skills, and critical insight into the nature of politics and political problems. Political Science subfields include American government, political theory, comparative politics, and international relations, and the major introduces each of these, as well as allowing additional coursework. The aim is to prepare students for active participation in political life, as informed citizens or residents, and to prepare students for transfer to a four-year university in the field of Political Science, and then to a range of possible careers.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and explain American political principles.
- Analyze and critique current political topics and issues.
- Assess the forms and processes of political participation at the local, state, national, and/or international levels.
- Evaluate and compare the structure and function of different political systems in the world, as well as the international system itself.
- Analyze different political theories, especially liberalism and conservatism.
- Analyze the historical and philosophical foundations of the United States and California constitutions.
- Examine complex political issues by selecting and using appropriate social science methodologies and approaches, including the analysis of primary sources and the development, evaluation and testing of hypotheses using the scientific method.

Students who wish to earn the Associate in Arts in Political Science for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

Assuming students start this AA-T with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Political Science

Course	Units
Required courses:	
POLS 1 American Government	3.0
POLS 2 Comparative Government	3.0
POLS 3 Political Theory	3.0
POLS 5 International Relations	3.0
Choose at least 6 units from the following elective courses:	
ECON 5 Introductory Statistics for Economics, Business and Social Sciences.	5.0
or PSYC 5 Statistics for Behavioral Sciences	5.0
POLS 4 The Politics of Globalization	3.0
POLS 12 Ethnic Politics in the United States	3.0
POLS 18 Government & Politics of Latin America	3.0
POLS 22 Environmental Politics and Policy	3.0
POLS 43 The Constitution and Individual Rights	3.0
POLS 45 Governments and Politics of Middle East	3.0
POLS 41 Independent Studies in Political Science	1.0
Total:	**18.0 – 20.0**

Announcement of Courses

Credit, Degree Applicable Courses:

POLS 1. American Government (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to United States and California government and politics, including constitutions, political institutions and processes, and political actors. Examination of political behavior, public policy, political ideas, and public policy. UC/CSU
C-ID POLS 110

POLS 2. Comparative Government (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A comparative study of the constitutional principles, governmental institutions, and political problems of selected governments. This course is designed to introduce students to the central themes of comparative politics. This includes discussions of methodology, the nature of the state, political culture, democracy and political and economic development. UC/CSU
C-ID POLS 130

POLS 3. Political Theory (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to political theory, ancient, modern, and contemporary. An examination of the general or abstract principles of politics. UC/CSU
C-ID POLS 120

POLS 4. The Politics of Globalization (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
This course surveys the recent phenomenon called globalization. The course analyzes competing political theories and perspectives on globalization and examines actual policies, including the possibilities and limitations that globalization offers to and imposes on everyday life. UC/CSU

POLS 5. International Relations (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to International Relations, with emphasis on International Relations theory. Issues covered include war and conflict, international order, diplomacy, human rights, terrorism, international political economy and environment. UC/CSU
C-ID POLS 140

POLS 12. Ethnic Politics in the United States (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188 English
This course surveys the role of race and ethnicity in American politics. Theories of race, identity, and ethnic political patterns are explored for African Americans, Asians Americans, Latino/a Americans, and European Americans. UC/CSU
Meets U.C Berkeley's American Cultures distribution.
Offered on occasion

POLS 15. Introduction to Public Policy (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to public policy, including key political actors and institutions involved in policy making, public policy theories, the context of the policy process, policy evaluation, and analysis of alternative policy approaches. UC/CSU
Offered on occasion

POLS 18. Government & Politics of Latin America (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The constitutional systems, political processes, and social problems of Latin American nations UC/CSU
Offered on occasion

POLS 19. Gender, Politics, and Policy (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to politics and public policy of gender in the United States, including women's and LGBTQ politics and policy. An analysis of American politics and public policy through a gendered lens. An examination of the development and current role of gender in rights, representation, and public policy. UC/CSU
Offered on occasion

POLS 22. Environmental Politics and Policy (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to the political science subfields and the environment, focusing on environmental politics and policy in the United States, comparative environmental politics and policy, environmental issues in international relations, and ecopolitical thought. UC/CSU
Offered on occasion

POLS 41. Independent Studies in Political Science (1)
Lab-52.5
An individualized reading or research program where students work one-on-one with a faculty member on topics in political science. CSU
UC upon review as variable topics course.

POLS 43. The Constitution and Individual Rights (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An individual's civil and criminal rights under the Constitution. Analysis of leading cases and legal principles which protect individual freedom with a civil liberties and civil rights perspective. UC/CSU
Offered on occasion

POLS 45. Governments and Politics of Middle East (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Comparative political science regional survey of the governments and politics of the Middle East and North Africa. UC/CSU
Offered on occasion

Psychology

Office: Batmale 354
Phone Number: (415) 239-3433
Web Site: *www.ccsf.edu/behavior*

Announcement of Curricula

Psychology Major (AA-T)

The AA-T in Psychology offers a wide range of lower division courses and is designed to prepare students who wish to transfer and pursue a baccalaureate degree in psychology. Psychology is the scientific study of behavior and mental processes. By taking courses in the various subfields of psychology, students come to see how contemporary psychology is a complex discipline offering many areas of specialization. Courses focus on the research and statistical methods used in the field, major theoretical perspectives used to explain human behavior and mental processes, and the ways in which biological, psychological, and sociocultural forces interact to impact thoughts, feelings, and behaviors. Students acquire skills in analytical and critical thinking and are introduced to using an intersectional lens to understand and explain the psychological functioning of individuals in a diverse society.

Learning Outcomes

Upon completion of this program, students will be able to:

- Contrast the major contemporary theoretical perspectives in psychology
- Identify research methods and statistical methods appropriate to psychology
- Recognize the interactions between biological and environmental forces and interpret how these relationships help explain cognition, affect, and behavior
- Analyze the major subfields of psychology and assess their contributions to the understanding of cognition, affect, and behavior
- Identify how cultural and societal forces impact thoughts, feelings, and behaviors.

Students who wish to earn the Associate in Arts in Psychology for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" or "P" or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Psychology

Course . . . . . Units

Required

PSYC 1 General Psychology 3.0
PSYC 1B Biological Psychology 3.0
PSYC 2 Research Methods 3.0

Choose one of the following courses

PSYC 5 Statistics for Behavioral Sciences 5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies 5.0
MATH 80 Probability and Statistics 5.0
ECON 5 Introductory Statistics for Economics, Business and Social Sciences 5.0

Choose one of the following courses

BIO 9 Human Biology 4.0
BIO 11 Science of Living Organisms 4.0
ENGL 1B Writing about Literature 4.0
ENGL 1C Writing about Nonfiction 4.0

Choose one of the following courses:

PSYC 4 Forensic Psychology 3.0
PSYC 9 Psychology of Stress 3.0
PSYC 10 Abnormal Psychology 3.0
PSYC 11 Theories of Personality 3.0
PSYC 21 Lifespan Development 3.0
PSYC 23 Psychology of Race and Ethnic Relations 3.0
PSYC 24 Queer Psychology 3.0
PSYC 25 Psychology of Gender 3.0
PSYC 26 Applied Psychology 3.0
PSYC 32 Social Psychology 3.0
PSYC 40 Child and Adolescent Psychology 3.0
PSYC 50 Psychology of Psychoactive Drugs 3.0
ANTH 3 Introduction to Social and Cultural Anthropology 3.0
SOC 1 Introduction to Sociology 3.0

Total: 21.0

Cannabis Studies Major (AA)

The Cannabis Studies Major is an introduction to the complex biopsychosocial relationship of humans to cannabis in multiple cultural, institutional, and interpersonal contexts. This major is grounded in Behavioral Sciences and addresses how intersecting identities, geography, and historicity frame the conversations and implications of cannabis and its use. This major provides a unique examination of the constructions of cannabis as a product, a psychoactive substance, a behavior, and a form of deviance, revolution, criminality, spirituality, and ethnomedicine; depending upon cultural standpoint, time, and global location. It also uses a social justice framework to analyze public policy, rhetoric, and the crimminal justice system.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the assumptions and diverse perspectives underlying social and behavioral science methods of investigation.
- Evaluate the impact on communities of evolving notions of deviance and resulting social policy regarding cannabis.
- Apply the biopsychosocial model to understanding the diverse impacts and experiences within different cannabis cultures.
- Explain how cannabis laws, policies, and dominant social values impact power dynamics and perpetuate social inequalities
- Evaluate representations of cannabis in popular culture.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete infor

mation. Generally, the minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Cannabis Studies

Course	Units
Required	
SOC 55 Introduction to Cannabis Studies	3.0
ANTH 50 Anthropology of Cannabis	3.0
PSYC 50 Psychology of Psychoactive Drugs	3.0
Choose 9 units from the following courses	
ADMJ 65 Criminal Justice, Drugs, Crime and the Law	3.0
ANTH 8 Magic, Witchcraft, and Religion	3.0
CINE 23C Cult Cinema	3.0
CMST 50 Rhetoric of Cannabis	3.0
LALS 11 Drug Wars in the Americas	3.0
POLS 15 Introduction to Public Policy	3.0
Total:	**18.0**

Announcement of Courses

Credit, Degree Applicable Courses:

PSYC 1. General Psychology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A scientific approach to the study of behavior and mental processes designed for both majors and non-majors. Topics include: research methods, biology of behavior, sensory systems, learning, memory, life-span development, motivation, emotion, personality theories, social psychology, abnormal psychology, and psychotherapy. UC/CSU
C-ID PSY 110

PSYC 1B. Biological Psychology (3)
Lec-52.5 P/NP available
Prereq: PSYC 1
This course examines the biological basis of behavior and mental processes. Psychopharmacology, cognitive neuroscience, research processes, and ethics will also be addressed. UC/CSU
C-ID PSY 150

PSYC 2. Research Methods (3)
Lec-52.5 P/NP available
Prereq: PSYC 1 and (PSYC 5 or LALS 5 or MATH 80)
An introduction to research methods in psychology. This course presents how researchers in psychology use critical analysis, theories, and methods to generate usable information. Emphasis on research design, experimental procedures, instrumentation, qualitative methods, and the analysis, interpretation, and reporting of findings. Attention is paid to strategies to decolonize psychological research. UC/CSU
C-ID PSY 200
Primarily for psychology majors, related majors, and students interested in the scientific method.

PSYC 4. Forensic Psychology (3)
Lec-52.5 P/NP available
Recommended Prep: PSYC 1
Explore aspects of the legal system studied by psychologists. Emphasis on research and theories in psychology to understand key participants in the legal system (e.g., criminals, police, victims, witnesses) and examine legal controversies (e.g., race and justice, death penalty, insanity defense, profiling, and eyewitness identification) that can affect legal outcomes. CSU
Offered on occasion

PSYC 5. Statistics for Behavioral Sciences (5)
Lec-87.5 P/NP available
Prereq: Intermediate algebra or higher
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to data analysis including measurement and research design. Intended for general education and prospective behavioral science majors. The course will focus on computation, interpretation, and application of both descriptive and inferential statistics. Topics include organization of data, central tendency and variability, hypothesis testing, non-parametric statistics, analysis of variance (ANOVA), and linear regression. UC/CSU

PSYC 9. Psychology of Stress (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Critical exploration of psychological research as it applies to understanding the causes, physiology, consequences, and management of stress. Emphasis is on practical applications for better managing stress. CSU

PSYC 10. Abnormal Psychology (3)
Lec-52.5 P/NP available
Recommended Prep: PSYC 1
An introduction to the symptoms, prevalence, causes and treatments of disturbances in mental, emotional, and behavioral functioning. Methods of assessment, classification, current diagnostic criteria, and theoretical models for understanding these disorders are discussed in-depth. UC/CSU
C-ID PSY 120

PSYC 11. Theories of Personality (3)
Lec-52.5 P/NP available
Recommended Prep: PSYC 1 and (readiness for college-level English or ESL 188)
An introduction to the theoretical constructs describing personality, including how personality develops and the dynamics of human behavior. Current research and intersectional approaches to understanding personality are addressed. UC/CSU

PSYC 14. Psychology of Shyness (1)
Lec-18 P/NP available
A psychological examination of shyness as a form of temperamental diversity. A comparison of shyness, social anxiety, introversion and the potential psychosocial challenges of each. Strategies for addressing challenges will be presented. CSU

PSYC 15. Assertive Behavior (1)
Lec-18 P/NP available
Examination of the development of communication patterns in a psychological and sociological context. Psychological and emotional barriers to effective communication will be explored. Application of assertiveness techniques to effect behavior change based on cognitive and behavioral theories in psychology are a major focus. Assessment and implementation of appropriate techniques in a variety of

situations, including communication with family, friends, and at the workplace are also discussed. CSU

PSYC 17. Psychology of Eating, Food, and Weight (1)
Lec-18 P/NP available
An examination of research, theory and applied psychological science related to the cognitions, behaviors, and emotions of eating, food, and weight. Includes a critical look at common myths and realities regarding weight and health, eating disorders, and the sociocultural pressures related to food choices and body size. CSU

PSYC 21. Lifespan Development (3)
Lec-52.5 P/NP available
Recommended Prep: PSYC 1 and (readiness for college-level English or ESL 188)
The multidisciplinary study of human development from conception through death. Examination of current research and theories with an emphasis on the ways that biological, psychological, sociocultural, and environmental forces and their interactions impact development throughout the lifespan. UC/CSU
C-ID PSY 180

PSYC 23. Psychology of Race and Ethnic Relations (3)
Lec-52.5 P/NP available
An exploration of the experiences, theories, and research concerning issues of race and ethnicity as they relate to individual and group behavior, emotion, and thinking, including attitudes, identity development, racism, privilege, coping strategies, and intersectional experiences. Psychohistorical analysis of the experiences of African Americans, Asian Americans, Latino(a) Americans, and Native Americans. UC/CSU

PSYC 24. Queer Psychology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Examines the psychological experiences of LGBTQ people. Intersectionality, feminist psychology, and queer theoretical perspectives are used to analyze the impact of queer identity on how individuals think, feel, and behave. Critical exploration of current research and models of sexual orientation and gender identity, and impacts of stigma and discrimination. UC/CSU

PSYC 25. Psychology of Gender (3)
Lec-52.5 P/NP available
This course is an analysis of theories and research on how behavioral, cognitive, and emotional processes are impacted by gender. It includes an intersectional critique of biological, psychological, sociocultural ideas of gender, gender continuums from cis to transgender and addresses topics such as stereotypes, relationships, violence, sexuality, work and academics from various perspectives. Included is a focus on experiences of, and responses to, oppression. UC/CSU
Offered Fall semesters

PSYC 26. Applied Psychology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Critical exploration of psychological theory, research findings, and concepts relevant to human adjustment. Emphasis on the proactive and practical application of psychology to improve self awareness, facilitate personal growth, and enhance social relationships. CSU

PSYC 32. Social Psychology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The study of human behavior and mental processes in the context of the social world. Examination of current research and theories with an emphasis on how an individual's thoughts, feelings, and behaviors influence and are influenced by other people, sociocultural factors, and the physical environment. UC/CSU
C-ID PSY 170
Formerly SOC 30

PSYC 40. Child and Adolescent Psychology (3)
Lec-52.5 P/NP available
Recommended Prep: PSYC 1 and (readiness for college-level English or ESL 188)
Introduction to the psychology of children from conception through adolescence. Examination of research and theory, emphasizing how development is enhanced or restricted. Physical, emotional, social, and cognitive development are discussed. Practical information is given for parents, teachers, counselors, and other concerned adults. UC/CSU

PSYC 50. Psychology of Psychoactive Drugs (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introduction to the biopsychological principles of psychoactive drugs. The course will explore the impact of drugs on neuronal communication and behavior. A primary focus includes critical evaluation of psychological research findings, research controversies, and popular claims. UC/CSU
Approved as PSYC 42, which had already been used; now PSYC 50.

Public Safety*

* See Administration of Justice and Fire Science.

Radiologic Sciences

Office: Cloud 239
Phone Number: (415) 239-3431
Web Site: *www.ccsf.edu/dmi*

Mission Statement

Mission Statement of the Radiologic Sciences Department. The Radiologic Sciences Department at City College of San Francisco is dedicated to the advancement of the allied health care industry by providing educational opportunities that foster ethical and compassionate behavior, professional development, and a respect for human diversity. The accomplishment of this mission is embedded in our values through the department's acronym: CCSF RADSCI

Our Values:

Compassionate patient care

Continued pursuit of learning

Sensitivity to the learning needs of our students

Fair and equitable treatment for all

Respect for all

Accountability and ethical behavior

Diversity consciousness

Service to the community and the advancement of the Radiologic Technology Profession

Commitment to excellence in the Radiologic Technology Profession

Integrity of the Education

Our Vision
To provide superior didactic and clinical educational opportunities that ensure CCSF Radiologic Sciences graduates are among the highest qualified radiologic technologists in the industry.

Announcement of Curricula

Degree Curricula

Diagnostic Medical Imaging

The curriculum in Diagnostic Medical Imaging is accredited by the Joint Review Committee on Education in Radiologic Technology, and approved by the Radiologic Health Branch of the California State Department of Public Health. For more information about these agencies, see the "Overview of the College" section of this Catalog.

The program maintains an affiliation with multiple San Francisco hospital radiology departments for the purpose of clinical education.

For more information, please visit ***www.ccsf.edu/dmi***

Consideration for Admission to the Curriculum. To be considered for admission to the curriculum, applicants must—

1. Meet the prerequisite requirements as described in the DMI program admissions requirements with a grade of "C" or higher:
2. Complete 40 hours of volunteer service in a hospital Radiology Department. Consult the Diagnostic Medical Imaging (DMI) application (available at ***www.ccsf.edu/dmi***) for more details about this requirement.
3. Have at least a 2.0 cumulative grade point average in college work previously completed.
4. Be in good physical and mental health.
5. File with the Office of Admissions and Records a completed application for admission to City College (for dates, see in this catalog the "Calendar of Instruction").
6. Submit an application to the Radiologic Sciences Office. Contact Radiologic Sciences Department for filing deadline dates. (Applications are available at ***www.ccsf.edu/dmi***).

Health Clearance Requirements. In addition to academic requirements and orientation, enrollment in the Diagnostic Medical Imaging Program is subject to evidence of immunizations per the San Francisco Health Department. In addition, upon program admission, the student must satisfactorily complete a physical examination given by an appropriately licensed health care provider.

Background Check Requirement. A background check will be required by the clinical affiliates. The cost for this will be incurred by the student. Students must complete this background check upon admission to the program.

Drug Screening. Drug screening is required by the clinical affiliate. The student is responsible for the cost.

Program Orientation. Upon admission, students are required to attend two scheduled program orientations.

Instruction in the Major. The course of study includes instruction in radiologic theory and techniques, pathology, patient care, radiation protection, anatomy, physics, and physiology. The curriculum is 30 months in length. Clinical education in diagnostic medical imaging is taught in the radiology departments of the hospitals affiliated with the College in offering the program. Members of the professional and technical staff of these departments serve as instructors.

Upon satisfactory completion of the Program and college graduation requirements, the student is awarded the Associate in Science degree. Upon satisfactory completion of the clinical internship in an affiliate hospital, the student is eligible for the ARRT national examination for certification.

Scholarship Requirements and Basis for Disqualification. A final grade lower than C (75%) in any of the required Diagnostic Medical Imaging courses, or a grade point average below 2.0 will be cause for dismissal from the Diagnostic Medical Imaging Program. Students may also be disqualified prior to the end of the semester should they receive a grade lower than C in their clinical performance. Students may be suspended or dismissed for excessive absences either on campus or at the clinical affiliate, according to the attendance policy, or for other reasons consistent with College policy, as set forth in the Catalogue under General Information.

Readmission of Students Disqualified Because of Unsatisfactory Scholarship. Students who have been disqualified from continuing in the curriculum because they received a final grade lower than C and who desire to be readmitted must submit a new application to the Radiologic Sciences Department Review Committee. As Part of the procedure, the Committee will meet with the applicant prior to making a decision. The Committee will base its recommendations on the current policy of the Diagnostic Medical Imaging Program, which is available from the department office.

Associate in Science Degree. The course of study is designed so that students may satisfy the requirements for graduation from the College. Students who these requirements, complete the required courses in the curriculum, including the clinical internship, with final grades of C or higher, will receive an A.S. degree with a Major in Diagnostic Medical Imaging.

State and National Certification. State certification is required for employment in California. Graduates are eligible for and must take the certification examination given by the American Registry of Radiologic Technologists (ARRT), a national certification board recognized by the Joint Review Committee for Education in Radiologic Technology. All employers require national certification. Upon notification of successful ARRT results, the graduate must apply for certification from the state of California.

Purchase of Uniforms and Clinical Supplies. Students are required to purchase the uniforms required in the courses in radiologic technology. The cost of uniforms and other supplies is approximately $500.

Diagnostic Medical Imaging Major (AS)

The Diagnostic Medical Imaging (DMI) Major provides didactic and clinical education in the operation of radiographic and computerized equipment, performance of radiologic procedures, creating and processing of radiographs, comprehensive coursework in radiation protection, and exposure to advanced imaging modalities. A minimum of 1,850 laboratory and clinical hours are required to complete this program. The DMI program is accredited by the Joint Review

Committee on Education in Radiologic Technology (JRCERT), and by the California State Department of Public Health-Radiologic Health Branch (CDPH-RHB). Upon successful program completion and an award of the Associate of Science degree in Diagnostic and Medical Imaging, graduates will be eligible to sit for board examinations administered by the American Registry of Radiologic Technologists (ARRT) and the CDPH-RHB.

The ARRT requires an Associate Degree as eligibility to sit for the ARRT board examination; therefore, the DMI program strongly urges all applicants who do not possess an Associate Degree or higher to complete all the general education requirements for the Associate of Science degree prior to applying for admission to the program.

The radiologic technologist provides patient services using imaging equipment, and assists radiologists or other physicians qualified to order and or perform radiologic procedures. The radiologic technologist's main duty is to provide quality patient care while applying critical thinking and knowledge of sciences, positioning, radiation protection, and radiographic technique. Effective communication with patients, other health professionals, and the public is important. Additional duties may include management of images, manipulating radiologic software and hardware infrastructure, performing quality assurance procedures, and providing patient education relevant to specific imaging procedures.

The employment outlook for radiologic technologists is very good. The growth in job opportunities is a result of the growth in healthcare industries and new uses of diagnostic imaging and therapeutic technology.

Learning Outcomes

Upon completion of this program, students will be able to:

- Practice clinical competence, including patient care skills and radiation protection measures, to ensure optimal diagnostic images during radiologic procedures.
- Employ critical thinking and problem-solving methods during diagnostic medical imaging procedures.
- Exhibit professionalism in their practice of diagnostic medical imaging.
- Communicate appropriately during diagnostic medical imaging procedures.

Admission Requirements

For a detailed breakdown of admission requirements go to ***www.ccsf.edu/dmi*** and select "DMI Program Admissions."

All prospective students must apply to and be accepted prior to starting the DMI program. The minimum time for DMI program completion is seven semesters, including two summer sessions; completion time will vary based on student preparation and the number of units completed per semester.

Prerequisite and Required Courses

For a detailed breakdown of admission requirements go to ***www.ccsf.edu/dmi*** and select "DMI Program Admissions."

These courses must be completed before applying to the program. These courses must be completed within seven years of the application date, with the exception of English. English does not have an expiration date.

- **Chemistry with Lab** (CHEM 32 or CHEM 101A)
- **English** (ENGL 1A)
- **Human Anatomy and Physiology with Lab** (BIO 108 and BIO 112)
- **Intermediate Algebra** (MATH 46 or MATH 60)
- **Physics with Lab** (PHYC 10 and PHYC 10L)

Highly Recommended Courses to Complete Before Application

For a detailed breakdown of admission requirements go to ***www.ccsf.edu/dmi*** and select "DMI Program Admissions."

These courses are not required to be completed before applying to the program; however, these courses serve as prerequisites or corequisites to DMI courses as early as the first semester of the program. These courses do not have to be completed within seven years of the application date.

- **Advanced First Aid and Basic Life Support** (EMT 14)
- **Intro to Radiologic Technology** (DMI 49)
- **Medical Terminology** (HIT 50A)
- **Psychology** (PSYC 1 or PSYC 26)
- **Public Speaking** (CMST 1A, CMST 11, or CMST 12)

Certification Note

The American Registry of Radiologic Technologists may deny certification for a felony or misdemeanor offenses. It is the responsibility of the student to present sufficient evidence of rehabilitation prior to applying to the DMI program by securing a pre-application process with the ARRT. This pre-application process is independent of the program admission application. Go to ***www.ARRT.org*** for more information.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of the DMI AS degree is 7 semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Diagnostic Medical Imaging

Course	Units
Required	
Didactic Courses	
DMI 49 Introduction to Radiologic Technology	3.0
DMI 50A Introduction to Medical Radiography	3.0
DMI 52 Patient Care in Radiologic Technology	3.0
DMI 50B Radiologic Physics and Equipment	2.5
DMI 51A Radiographic Anatomy and Positioning	7.0
DMI 51B Radiographic Exposure Factors	2.0
Clinical Externship	
DMI 62 Clinical Education in DMI I	5.0
DMI 64 Clinical Education in DMI II	5.0
DMI 66 Clinical Education in DMI III	5.0
DMI 55 Skull Radiography	2.0
DMI 56 Radiographic Pathology	3.0
DMI 57 Multiplanar Imaging in Radiologic Sciences	3.0
DMI 63 Intermediate Diagnostic Procedures	2.0
DMI 54 Vascular and Interventional Procedures	2.0
DMI 65 Advanced Imaging Procedures	2.0
DMI 70 Radiation Protection	2.0

Clinical Internship
DMI 68 Clinical Education in DMI IV 13.0
DMI 69 Clinical Education Internship Summer Bridge . . 6.0
DMI 100 Registry Examination and Career Preparation . . 1.0
Total: 71.5

Announcement of Courses

Credit, Degree Applicable Courses:

DMI 49. Introduction to Radiologic Technology (3)
Lec-52.5, field trips
History of radiologic technology, imaging equipment, procedures, patient care, radiation safety, ethics, and professional organizations. CSU
Open to all students who may be interested in a career in Radiologic Technology and required of students accepted into the Diagnostic Medical Imaging program.
Offered Fall and Spring semesters

DMI 50A. Introduction to Medical Radiography (3)
Lec-35, Lab-52.5
Prereq: Admission to the Diagnostic Medical Imaging program; Completion of or concurrent enrollment in: DMI 49
Introduction to radiation physics, x-ray equipment, and imaging factors governing image receptor exposure, processing, and quality. CSU
Offered Fall and Spring semesters

DMI 50B. Radiologic Physics and Equipment (2.5)
Lec-35, Lab-35, field trips
Prereq: DMI 50A
This course studies the physics of the field of radiologic technology, fluoroscopy, and the interaction of ionizing radiation with matter. Included is an examination and application of radiology equipment and radiation protection as well as the study of x-ray circuitry as it pertains to the equipment used in the field. CSU
Offered Fall and Spring semesters

DMI 51A. Radiographic Anatomy and Positioning (7)
Lec-105, Lab-52.5
Prereq: DMI 49 and DMI 50A and DMI 52; Completion of or concurrent enrollment in: EMT 14 and HIT 50A
Anatomy and positioning of the axial and appendicular skeleton (except skull) and internal organs. Preliminary steps in radiographic positioning and equipment, radiation protection, patient relations, first aid and standard precautions as it pertains to radiographic examinations. CSU
Intended to be taken concurrently with DMI 50B and 51B.
Offered Fall and Spring semesters

DMI 51B. Radiographic Exposure Factors (2)
Lec-35, Lab-17.5
Prereq: DMI 50A
Coreq: DMI 51A and DMI 50B
Theoretical and practical application of exposure factors. Technical requirements in order to both produce and critique radiographic images for optimum diagnostic quality. CSU
Offered Fall and Spring semesters

DMI 52. Patient Care in Radiologic Technology (3)
Lec-52.5, field trips
Prereq: ENGL 1A; Completion of or concurrent enrollment in: EMT 14 and PSYC 1
Coreq: DMI 50A
Introduction to patient care to include patient and staff communication skills, body mechanics for safe patient transfer and radiation safety as it applies to the basics of time, distance, and shielding. Emphasis on ethical decision making, confidentiality, age and cultural specific differences, as applied to the responsibilities of the Radiologic Technologist. CSU
Only open to students accepted into the DMI program.
Offered Fall and Spring semesters

DMI 54. Vascular and Interventional Procedures (2)
Lec-35, field trips
Coreq: DMI 65 and 66
Emphasis on vascular imaging trends, related equipment considerations, anatomy, patient care, and interventional radiography. CSU
Open only to students that have been accepted into the DMI program.
Offered Fall and Spring semesters

DMI 55. Skull Radiography (2)
Lec-35
Prereq: DMI 51A
Coreq: DMI 63 and (DMI 62 or DMI 64)
Anatomy of the skull and facial bones, topical landmarks, radiographic positioning and technical factors, radiographic equipment and usage. CSU

DMI 56. Radiographic Pathology (3)
Lec-52.5
Coreq: DMI 64 or DMI 66
Discussion and illustration of normal variations and abnormal changes due to disease as manifested through diagnostic imaging procedures. Description of modifications of standard and special techniques necessary to obtain adequate diagnostic imaging studies. CSU
Open to advanced radiologic technology students only who have been accepted into the DMI program.
Offered Fall semesters

DMI 57. Multiplanar Imaging in Radiologic Sciences (3)
Lec-52.5, field trips
Prereq: ANAT 25 or BIO 108
Coreq: DMI 63
Anatomy from multiplanar perspectives as visualized on Computed Tomography, Magnetic Resonance Imaging, and other imaging modalities. CSU
Offered Fall and Spring semesters

DMI 62. Clinical Education in DMI I (5)
Lab-280
Prereq: CMST 1A or ESL 79
First semester of clinical education experience in a hospital radiology department. Placement is determined by the Program Officials. Regular meetings with CCSF faculty at the hospital to ensure appropriate progress in the clinical environment. DMI faculty will oversee all student activities at the clinical site. CSU
Offered Spring and Summer semesters

DMI 63. Intermediate Diagnostic Procedures (2)
Lec-35, Lab-17.5
Prereq: DMI 51A
Basic theories underlying intermediate diagnostic imaging procedures. Relationships of clinical indications, patient demographics, special precautions, accessory equipment, and patient positioning. CSU
Offered Fall and Spring semesters

DMI 64. Clinical Education in DMI II (5)
Lab-280
Prereq: DMI 62; Completion of or concurrent enrollment in: DMI 55; DMI 63
Second semester of clinical education in a hospital radiology department. Placement is determined by the Program Officials. On-site meetings with CCSF faculty. CSU
Offered Summer and Fall semesters

DMI 65. Advanced Imaging Procedures (2)
Lec-35, field trips
Coreq: DMI 66
Fundamentals of Computed Tomography and Magnetic Resonance Imaging. Emphasis on physics, patient care and professionalism. CSU
Offered Fall and Spring semesters

DMI 66. Clinical Education in DMI III (5)
Lab-280
Prereq: DMI 64
Coreq: DMI 54 and DMI 65
Third semester of clinical education in a newly assigned hospital radiology department. Placement is determined by the Program Officials. On-site meetings with CCSF faculty. CSU
Offered Fall and Spring semesters

DMI 68. Clinical Education in DMI IV (13)
Lab-700
Prereq: DMI 66
Coreq: DMI 100
Internship semester of clinical education in a hospital radiology department. Placement is determined by the Program Officials. Performance of clinical internship competencies including those not completed in DMI 69. On-site meetings with CCSF faculty. CSU
Offered Fall and Spring semesters

DMI 69. Clinical Education Internship Summer Bridge (6)
Lab-340
Prereq: DMI 66
Summer bridge internship semester of clinical education in a hospital radiology department. Placement is determined by the Program Officials. Performance of clinical internship competencies including those not completed in DMI 68. On-site meetings with CCSF faculty. CSU
Offered Summer semesters

DMI 70. Radiation Protection (2)
Lec-35, Lab-17.5
Coreq: DMI 66
Methods of reducing radiation exposure to patients, and safe practices for protection of personnel. State and national regulations pertaining to the use of diagnostic radiography, and fluoroscopy. CSU
Offered Fall and Spring semesters

DMI 72. Mammography (3)
Lec-52.5, field trips
Focuses on patient interactions, management, image acquisition, quality assurance, positioning/procedures, and pathology specific to mammography. This course meets the 16 hours of structured education required by the ARRT and 40 hours of structured education required by the CDPH-RHB. CSU
Only open to students accepted into the DMI program.
Offered Fall and Spring semesters

DMI 100. Registry Examination and Career Preparation (1)
Lec-17.5, field trips
Coreq: DMI 68
Consolidation of Diagnostic Medical Imaging topics designed to prepare students for the certification examination in Radiography administered by the American Registry of Radiologic Technologists. CSU
Offered Fall and Spring semesters

Russian

Office: Art 202
Phone Number: (415) 239-3223
Web Site: *www.ccsf.edu/worl*

Announcement of Courses

Credit, Degree Applicable Courses:

RUSS 1A. Elementary Russian (3)
Lec-52.5 P/NP available
Recommended Prep: ENGL 88 or ESL 188 or any City College or university foreign language course
Introductory course in Russian grammar, composition and reading. Practice in speaking, writing, and understanding Russian and introduction to Russian culture. UC/CSU
Not recommended to students who are enrolled in or who have completed RUSS 21A-21B. RUSS 1A + 1B = RUSS 1
Offered Spring and Summer semesters

RUSS 1B. Elementary Russian (3)
Lec-52.5 P/NP available
Prereq: RUSS 1A or demonstration of RUSS 1A exit skills.
Grammar, composition, and reading. Practice in speaking and understanding Russian and introduction to Russian culture. UC/CSU
Not recommended to students who are enrolled in or who have completed RUSS 21B. RUSS 1A + 1B = RUSS 1
Offered Fall semesters

RUSS 21A. Elementary Russian for Bilingual Students (3)
Lec-52.5 P/NP available
Recommended Prep: Oral fluency in Russian
Beginner's course for bilingual students. Elementary grammar, compositions, and reading; special emphasis on the written aspect of the language. UC/CSU
Not recommended to students who are enrolled in or who have completed RUSS 1A+1B. Designed for bilingual students who are effective in oral communication in Russian within their communities, but who have little knowledge and/or no formal training in the written forms of the language. RUSS 21A+21B=RUSS 21
Offered on occasion

RUSS 21B. Elementary Russian for Bilingual Students (3)
Lec-52.5 P/NP available
Prereq: Oral fluency in Russian or RUSS 21A or demonstration of RUSS 21A exit skills
Beginner's course for bilingual students, continued. Elementary grammar, compositions, and reading; special emphasis on the written aspect of the language. UC/CSU
Not recommended to students who are enrolled in or who have completed RUSS 1A + 1B. Designed for bilingual students who are effective in oral communication in Russian within their communities, but who have little knowledge and/or no

formal training in the written forms of the language. RUSS 21A+21B=RUSS 21
Offered on occasion

Sociology

Office: Batmale 354
Phone Number: (415) 239-3433
Web Site: *www.ccsf.edu/behavior*

Announcement of Curricula

Sociology Major (AA-T)

The AA-T in Sociology offers students a comprehensive lower division program in Sociology. The AA-T prepares students who wish to transfer and pursue a baccalaureate degree in Sociology. Sociology is a behavioral science grounded in the study of how groups interact, with a focus on power, structure, and culture. Topics covered include the reproduction of inequalities in social systems, both institutional and individual. By applying macro and micro sociological theories to the study of social life and social problems, students engage in social critique and study how social change occurs. Students are also introduced to the power of research for understanding and changing our social world.

Learning Outcomes

Upon completion of this program, students will be able to:

- Compare the major contemporary theoretical perspectives in sociology.
- Identify and apply research methods and statistical methods appropriate to sociology.
- Apply the sociological perspective to contemporary issues to analyze social problems and public policy.
- Apply sociological principles and theories to everyday interactions with people from diverse backgrounds.

Students who wish to earn the Associate in Arts in Sociology for Transfer (AA-T) must complete 60 degree-applicable semester units (or 90 quarter units) with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units required for the major as specified below. Each course in the major must be completed with a minimum grade of "C" (or "P"). Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters; completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Sociology

Course . . . . . Units

REQUIRED core course:
SOC 1 Introduction to Sociology 3.0

Choose TWO of the following courses:
SOC 3 Social Problems 3.0
SOC 21 Introduction to Research Methods 3.0

--OR substitute ONE of the following statistics courses for SOC 3 or SOC 21:
PSYC 5 Statistics for Behavioral Sciences 5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies 5.0
MATH 80 Probability and Statistics 5.0
ECON 5 Introductory Statistics for Economics, Business and Social Sciences 5.0

Choose TWO of the following courses from Group A:
SOC 2 Sociology of Deviance and Crime 3.0
SOC 25 Sex and Gender in the U.S. 3.0
SOC 35 Sex, Marriage, and Family Relationships 3.0
SOC 52 Men, Masculinity, and Society 3.0
PSYC 32 Social Psychology 3.0
IDST 37 Introduction to Ethnic Studies 3.0

Either SOC 3 or SOC 21 may fulfill Group A requirements if not used previously.

Choose ONE of the following courses from Group B:
ANTH 3 Introduction to Social and Cultural Anthropology 3.0
ANTH 3C Introduction to Cultural Anthropology: Focus on U.S. Cultures 3.0
IDST 17 Human Sexuality 3.0
POLS 1 American Government 3.0
PSYC 1 General Psychology 3.0
PSYC 23 Psychology of Race and Ethnic Relations 3.0
SOC 11 Intro to Social Work and Human Services 3.0
SOC 55 Introduction to Cannabis Studies 3.0

Either SOC 3 or SOC 21 and any course not used in Group A may fulfill Group B requirements if not used previously.

Total: . . . . . 18.0 – 20.0

Social Work Major (AA-T)

The Social Work degree is designed to prepare students for transfer into the CSU system and employment in the human services field. Social Work is an applied behavioral science and focuses on the essential information for understanding and critically analyzing behavior, social forces and conditions in diverse environments. Students will gain essential skills and hands-on experience in providing human services. The program will enable students to develop an analysis of how social conditions contribute to inequality and the need for social services.

Learning Outcomes

Upon completion of this program, students will be able to:

- Critique major theories related to the understanding of social problems and social welfare policy.
- Apply various methods of inquiry including statistical analysis to examine social welfare issues.
- Apply the biopsychosocial model to understand real life experiences of persons from diverse backgrounds.

Students who wish to earn the Associate in Arts in Social Work for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

Assuming students start this AA-T program with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and

number of units completed per semester. Students must complete a minimum of 3 of 7 required courses at City College of San Francisco.

Courses Required for the AA-T in Social Work

Course	Units
Required Social Work Courses	
SOC 11 Intro to Social Work and Human Services	3.0
SOC 12 Fieldwork/Practicum: Social Work and Human Services	3.0
Required Behavioral Sciences Courses	
PSYC 1 General Psychology	3.0
SOC 1 Introduction to Sociology	3.0
Required Critical Analysis Courses	
PSYC 5 Statistics for Behavioral Sciences	5.0
or LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
or ECON 5 Introductory Statistics for Economics, Business and Social Sciences	5.0
or MATH 80 Probability and Statistics	5.0
ECON 3 Principles of Microeconomics	3.0
or ECON 1 Principles of Macroeconomics	3.0
Required Human Biology Course	
BIO 9 Human Biology	4.0
or BIO 11 Science of Living Organisms	4.0
Electives (select two)	
ADMJ 57 Introduction to Administration of Justice	3.0
ANTH 3 Introduction to Social and Cultural Anthropology	3.0
CDEV 53 Child Growth and Development	3.0
CDEV 67 Child, Family, and Community	3.0
CMST 5 Intercultural Communication	3.0
ENGL 1C Writing about Nonfiction	4.0
HIST 17A United States History to 1877	3.0
HIST 17B The United States	3.0
PSYC 10 Abnormal Psychology	3.0
PSYC 21 Lifespan Development	3.0
HLTH 30 Drugs, Health, and Society	3.0
SOC 3 Social Problems	3.0
Total:	**30.0 – 31.0**

Announcement of Courses

Credit, Degree Applicable Courses:

SOC 1. Introduction to Sociology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Designed for general education or those students majoring in one of the Behavioral Sciences. Introduction to human interaction from the sociological perspective and through the utilization or sociological concepts, theories and principles. Topics include culture, socialization, organizations, deviance, stratification, institutions, population, and social change. UC/CSU
C-ID SOCI 110

SOC 2. Sociology of Deviance and Crime (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The study of the nature of deviance and the sociology of crime, with special attention to the sociological theories that underlay its definition, as well as the social practices that are derived from them, including the criminal justice system. Analyses range from social psychological processes and the structure of social institutions (such as family, business, government, religion and law), to methods for measuring crime rates. UC/CSU
Formerly Social Deviance

SOC 3. Social Problems (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Critical exploration of sociological research and thinking about contemporary social problems, including the types and causes of discrimination, as well inequalities in society. Using a variety of sociological perspectives, this course explores the causes and consequences of social problems on individuals and societies, and the methods for social change and problem solutions. UC/CSU
C-ID SOCI 115

SOC 11. Intro to Social Work and Human Services (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An introductory overview of social welfare and the societal institutions in the U.S. that structure the provision of social services. The course presents a historical perspective on the development of U.S. social work and human services. Special attention is given to current service delivery systems, their policies and procedures, and the tasks of culturally responsive social workers and human service workers within those settings. UC/CSU

SOC 12. Fieldwork/Practicum: Social Work and Human Services (3)
Work-180-225, field trips P/NP available
Prereq: Approval of the Behavioral Sciences Department; SOC 11
This course offers the student supervised field experience in community organization, agency, or institution, allowing the student to apply knowledge and learn skills outside of the classroom. Weekly class meetings add academics to this experiential course and reinforces the application of concepts gained in Soc 11. This course is designed to provide opportunities to develop skills to gain employment in the field. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU

SOC 21. Introduction to Research Methods (3)
Lec-52.5 P/NP available
Prereq: SOC 1
Study of the fundamental elements of empirical research and the variety of ways in which sociology applies them. Attention to the logic between theory, concept, hypothesis, and variable and the relationship between population, sample and data. UC/CSU
C-ID SOCI 120

SOC 25. Sex and Gender in the U.S. (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course is a comprehensive introduction to the sociological study of gender and will focus on the multiple ways in which sex and gender are socially produced and sustained. Exploration of the social practices and processes that create sex and gender distinctions and contribute to inequalities. Emphasis on the social construction of sex and gender

and their intersections with other social identities such as race, sexuality, and class. UC/CSU
C-ID SOCI 140
Offered Spring semesters

SOC 35. Sex, Marriage, and Family Relationships (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Critical exploration of the social, psychological, cultural, historical, and economic factors related to gender roles, courtship, marriage, partnership, parenting, and family patterns in U.S. society. UC/CSU
C-ID SOCI 130

SOC 52. Men, Masculinity, and Society (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Through a socioanthropological lens, this course explores the complex development of masculine identities in diverse contexts. In addition, it examines the variations of masculine experiences such as boyhood, adolescence, and fatherhood through social class, race/ethnicity, age, occupation, gender identity, physical ability and sexuality, and the implications for people from such diverse groups. UC/CSU
Changed from SOC 36, which had been used before for a different course.

SOC 55. Introduction to Cannabis Studies (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to a sociological examination of cannabis. Provides a historical analysis of the sociological study of cannabis and social identity, regulation and enforcement, criminalization, and movements toward legalization. Topics approached through the lens of social power and inequity. UC/CSU

Spanish

Office: Art 202
Phone Number: (415) 239-3223
Web Site: *www.ccsf.edu/worl*

Announcement of Curricula

Spanish Major (AA-T)

The AA-T in Spanish offers students a solid foundation in the study of Spanish. It prepares students who wish to transfer and pursue a baccalaureate degree in Spanish, particularly at California State University campuses.

Degree Requirements.

Students who wish to earn the Associate in Arts in Spanish for Transfer (AA-T) must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

Learning Outcomes

Upon completion of this program, students will be able to:

- Interact fluently in Spanish in a normal and spontaneous fashion at an intermediate level.
- Analyze current affairs media as well as contemporary literary prose in Spanish.
- Distinguish geography and cultural differences in the Spanish-speaking world.
- Communicate in Spanish at a level of proficiency necessary to perform successfully in upper-division course work.

Note: Students who place into higher level Spanish courses and do not complete a minimum of 18 units in the major, should take courses from Option 2, List B below to meet the minimum 18 units in the major required by Title 5.

Assuming students start this AA-T with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Spanish

Course . . . . . Units
Choose either Option 1: Spanish Language Learners or Option 2: Spanish Heritage Speakers
OPTION 1: SPANISH LANGUAGE LEARNERS
Required courses:
SPAN 1 Elementary Spanish 5.0
or SPAN 1A Elementary Spanish 3.0
and SPAN 1B Elementary Spanish 3.0
SPAN 2 Continuation of Elementary Spanish 5.0
or SPAN 2A Continuation of Elementary Spanish 3.0
and SPAN 2B Continuation of Elementary Spanish 3.0
SPAN 3 Intermediate Spanish 5.0
or SPAN 3A Intermediate Spanish 3.0
and SPAN 3B Intermediate Spanish 3.0
SPAN 6 Continuation of Intermediate Spanish 5.0
or SPAN 6A Continuation of Intermediate Spanish 3.0
and SPAN 6B Continuation of Intermediate Spanish . . 3.0
Choose one of the following elective courses:
SPAN 10B Continuation of Beginning Conversational Spanish 3.0
SPAN 10C Intermediate Conversational Spanish 3.0
SPAN 10D Continuation of Intermediate Conversational Spanish 3.0
SPAN 7 Intro. to Literature in Spanish 3.0
SPAN 5 Advanced Spanish: Hispanic Culture and Civilization 3.0
SPAN 5S Advanced Spanish: Hispanic Culture and Civilization 3.0
SPAN 22A Grammar Review and Composition 3.0
SPAN 22B Grammar Review and Composition 3.0
SPAN 41 Culture and Civilization of Spain 3.0

OPTION 2: SPANISH HERITAGE SPEAKERS
Required courses:
SPAN 31A Spanish for Heritage Speakers 1A 3.0
and SPAN 31B Spanish for Heritage Speakers 1B 3.0

SPAN 32A Spanish for Heritage Speakers 2A 3.0
and SPAN 32B Spanish for Heritage Speakers 2B 3.0

Choose one of the following LIST A elective courses:
SPAN 5 Advanced Spanish: Hispanic Culture and Civilization. 3.0
SPAN 5S Advanced Spanish: Hispanic Culture and Civilization. 3.0
SPAN 7 Intro. to Literature in Spanish 3.0
SPAN 41 Culture and Civilization of Spain 3.0

Choose 2 of the following LIST B elective courses:
ANTH 11 Latin American Cultures and Societies. 3.0
ART 105 Ancient Art and Architecture of Latin America 3.0
ART 106 Latin American Art History 3.0
LALS 1 The Latinx Experience in the United States. 3.0
LALS 9 The Latinx LGBTQ+ Experience. 3.0
LALS 10 Latinas in the U.S./VOCES 3.0
LALS 14 Diego Rivera: Art and Social Change in Latin America. 3.0
HIST 18A The Colonial History of Latin America 3.0
HIST 18B History of Latin America Since Independence 3.0
HIST 20 History of Mexico 3.0
MUS 25 Music of Latin America and the Caribbean 3.0

Total: . . . . . 21.0 – 27.0

Spanish Major (AA)

The Spanish program provides instruction in developing a student's ability to communicate in Spanish, orally and in writing, through the intermediate level and to gain knowledge of Spanish-speaking cultures throughout the world. The program is designed to meet transfer goals as well as enhance personal development and career growth.

The Degree Curriculum in Spanish is a two-year course of study designed to build a strong language foundation as well as expose students to diverse cultural content and some literature. Students who complete the curriculum are better prepared to transfer to the CSU and UC systems as well as other universities with the intent of majoring or minoring in Spanish.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply a range of intermediate Spanish vocabulary, grammar, and syntax to communicate in oral and written Spanish.
- Interpret oral and written Spanish texts applying knowledge of intermediate vocabulary and structures.
- Analyze and synthesize aspects of Spanish-speaking cultures and society.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Spanish

Course . . . . . Units

Choose 12 units from the following
SPAN 2 Continuation of Elementary Spanish 5.0
or SPAN 2A Continuation of Elementary Spanish 3.0
and SPAN 2B Continuation of Elementary Spanish 3.0
SPAN 3 Intermediate Spanish 5.0
or SPAN 3A Intermediate Spanish 3.0
and SPAN 3B Intermediate Spanish. 3.0
SPAN 6A Continuation of Intermediate Spanish 3.0
and SPAN 6B Continuation of Intermediate Spanish 3.0
SPAN 7 Intro. to Literature in Spanish 3.0
SPAN 22A Grammar Review and Composition 3.0
SPAN 22B Grammar Review and Composition 3.0
SPAN 22C Grammar Review and Composition 3.0
SPAN 31 Spanish for Heritage Speakers 1. . . . . 5.0
or SPAN 31A Spanish for Heritage Speakers 1A 3.0
and SPAN 31B Spanish for Heritage Speakers 1B 3.0
SPAN 32 Spanish for Heritage Speakers 2 . . . . . 5.0
or SPAN 32A Spanish for Heritage Speakers 2A 3.0
and SPAN 32B Spanish for Heritage Speakers 2B 3.0

Choose 6 units from the following
SPAN 1 Elementary Spanish. 5.0
or SPAN 1A Elementary Spanish 3.0
and SPAN 1B Elementary Spanish 3.0
SPAN 10B Continuation of Beginning Conversational Spanish. 3.0
SPAN 10C Intermediate Conversational Spanish 3.0
SPAN 10D Continuation of Intermediate Conversational Spanish 3.0
SPAN 5 Advanced Spanish: Hispanic Culture and Civilization 3.0
SPAN 5S Advanced Spanish: Hispanic Culture and Civilization 3.0
SPAN 42 LGBT Voices in Hispanic society 3.0

Total: 18.0

Spanish Certificate

The Certificate of Achievement in Spanish provides students, prospective employers, and others with documented evidence of persistence and academic achievement in the Spanish language at an intermediate level.

Note that SPAN 1A + 1B = SPAN 1; SPAN 2A + 2B = SPAN 2; SPAN 3A + 3B = SPAN 3

Learning Outcomes

Upon completion of this program, students will be able to:

- Communicate in spoken Spanish using a range of vocabulary, language functions, and sentence structures at an intermediate level.
- Demonstrate analytical reading and comprehension skills at the intermediate level.
- Communicate in writing using a range of intermediate Spanish vocabulary, grammar, and sentence structures.

- Analyze elements of history and culture of various countries in the Spanish-speaking world.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Spanish

Course	Units
Required	
SPAN 3 Intermediate Spanish	5.0
or SPAN 3A Intermediate Spanish	3.0
and SPAN 3B Intermediate Spanish	3.0
Choose at least 11 units from the following	
SPAN 1 Elementary Spanish	5.0
or SPAN 1A Elementary Spanish	3.0
and SPAN 1B Elementary Spanish	3.0
SPAN 2 Continuation of Elementary Spanish	5.0
or SPAN 2A Continuation of Elementary Spanish	3.0
and SPAN 2B Continuation of Elementary Spanish	3.0
SPAN 6A Continuation of Intermediate Spanish	3.0
and SPAN 6B Continuation of Intermediate Spanish	3.0
SPAN 5 Advanced Spanish: Hispanic Culture and Civilization.	3.0
and SPAN 5S Advanced Spanish: Hispanic Culture and Civilization	3.0
SPAN 7 Intro. to Literature in Spanish	3.0
SPAN 22A Grammar Review and Composition	3.0
and SPAN 22B Grammar Review and Composition	3.0
and SPAN 22C Grammar Review and Composition	3.0
SPAN 10A Beginning Conversational Spanish	3.0
SPAN 10B Continuation of Beginning Conversational Spanish	3.0
SPAN 10C Intermediate Conversational Spanish	3.0
SPAN 10D Continuation of Intermediate Conversational Spanish	3.0
SPAN 42 LGBT Voices in Hispanic society	3.0
Total:	**16.0 – 17.0**

Spanish for Heritage Speakers Certificate

The Certificate of Achievement in Spanish for Heritage Speakers provides students, prospective employers, and others, with documented evidence of persistence and academic accomplishment in the Spanish language.

Note that SPAN 31A + 31B = SPAN 31; SPAN 32A + 32B = SPAN 32

Learning Outcomes

Upon completion of this program, students will be able to:

- Communicate in spoken Spanish using a range of vocabulary, language functions, and sentence structures using formal and academic registers.
- Apply analytical reading and comprehension skills at a competent level.
- Communicate in writing using a range of formal and academic Spanish vocabulary, grammar, and sentence structures, avoiding interference with English at a competent level.
- Analyze elements of history and culture of various countries in the Spanish-speaking world as well as Spanish-speaking communities in the US.

The minimum time for completion is 3 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Achievement in Spanish for Heritage Speakers

Course	Units
Required	
SPAN 31 Spanish for Heritage Speakers 1.	5.0
or SPAN 31A Spanish for Heritage Speakers 1A	3.0
and SPAN 31B Spanish for Heritage Speakers 1B	3.0
SPAN 32 Spanish for Heritage Speakers 2	5.0
or SPAN 32A Spanish for Heritage Speakers 2A	3.0
and SPAN 32B Spanish for Heritage Speakers 2B	3.0
SPAN 5 Advanced Spanish: Hispanic Culture and Civilization.	3.0
or SPAN 7 Intro. to Literature in Spanish	3.0
Choose 3 units from the following	
ANTH 11 Latin American Cultures and Societies.	3.0
ART 105 Ancient Art and Architecture of Latin America	3.0
ART 106 Latin American Art History	3.0
LALS 1 The Latinx Experience in the United States.	3.0
LALS 9 The Latinx LGBTQ+ Experience.	3.0
LALS 10 Latinas in the U.S./VOCES.	3.0
LALS 14 Diego Rivera: Art and Social Change in Latin America.	3.0
HIST 18A The Colonial History of Latin America	3.0
HIST 18B History of Latin America Since Independence	3.0
HIST 20 History of Mexico	3.0
MUS 25 Music of Latin America and the Caribbean	3.0
SPAN 5S Advanced Spanish: Hispanic Culture and Civilization	3.0
SPAN 42 LGBT Voices in Hispanic society	3.0
Total:	**16.0 – 18.0**

Announcement of Courses

Students of beginning Spanish are directed to consider Spanish courses numbered 1, 1A, and 10A.

A placement test in Spanish is available for guidance in selecting the appropriate course. For information, call 239-3223.

Credit, Degree Applicable Courses:

SPAN 1. Elementary Spanish (5)

Lec-87.5 P/NP available

Recommended Prep: ESL 188 or readiness for college-level English or (any City College or university foreign language course)

Beginner's course in grammar, composition, and reading. Practice in speaking and understanding Spanish. UC/CSU

C-ID SPAN 100

SPAN 1A. Elementary Spanish (3)
Lec-52.5 P/NP available
Recommended Prep: ESL 188 or readiness for college-level English or (any City College or university foreign language course)
Beginner's course in grammar, composition and reading. Practice in speaking and understanding Spanish. UC/CSU
C-ID SPAN 100 (SPAN 1A + SPAN 1B)
SPAN 1A+1B = SPAN 1

SPAN 1B. Elementary Spanish (3)
Lec-52.5 P/NP available
Prereq: SPAN 1A or demonstration of SPAN 1A exit skills
Beginner's course in grammar, composition and reading. Practice in speaking and understanding Spanish. UC/CSU
C-ID SPAN 100 (SPAN 1A + SPAN 1B)
SPAN 1A+1B=SPAN 1

SPAN 2. Continuation of Elementary Spanish (5)
Lec-87.5 P/NP available
Prereq: SPAN 1 or 1B or demonstration of SPAN 1/1B exit skills.
Second semester course with emphasis on vocabulary and grammar appropriate to the intermediate mid level. Continued practice in speaking and understanding Spanish. Continued practice in writing and reading Spanish. Further introduction to Hispanic cultures. UC/CSU
C-ID SPAN 110
SPAN 2A+2B=SPAN 2

SPAN 2A. Continuation of Elementary Spanish (3)
Lec-52.5 P/NP available
Prereq: SPAN 1 or 1B or demonstration of SPAN 1/1B exit skills.
Second semester course with emphasis on vocabulary and grammar appropriate to the intermediate low level. Continued practice in speaking and understanding Spanish. Continued practice in writing and reading Spanish. Further introduction to Hispanic cultures. UC/CSU
C-ID SPAN 110 (SPAN 2A + SPAN 2B)
SPAN 2A+2B=SPAN 2

SPAN 2B. Continuation of Elementary Spanish (3)
Lec-52.5 P/NP available
Prereq: SPAN 2A or demonstration of SPAN 2A exit skills.
Second semester course with emphasis on vocabulary and grammar appropriate to the intermediate mid level. Continued practice in speaking and understanding Spanish. Continued practice in writing and reading Spanish. Further introduction to Hispanic cultures. UC/CSU
C-ID SPAN 110 (SPAN 2A + SPAN 2B)
SPAN 2A+2B=SPAN 2

SPAN 3. Intermediate Spanish (5)
Lec-87.5 P/NP available
Prereq: SPAN 2 or 2B or demonstration of SPAN 2/2B exit skills.
Intermediate level Spanish course. Designed for students who need reinforcement and expansion of the structures of the Spanish language. Essay composition and constant practice in the use and comprehension of the spoken language. UC/CSU
C-ID SPAN 200
SPAN 3A+3B = SPAN 3

SPAN 3A. Intermediate Spanish (3)
Lec-52.5 P/NP available
Prereq: SPAN 2 or SPAN 2B or demonstration of exit skills
Intensive review of grammar, composition, and culture at the intermediate level. Designed for students who need reinforcement and expansion of the structures of the Spanish language. Introduction to authentic texts and Hispanic films to study new cultural perspectives. UC/CSU
C-ID SPAN 200 (SPAN 3A + SPAN 3B)
SPAN 3A not prerequisite to SPAN 3B. SPAN 3A+3B=SPAN 3

SPAN 3B. Intermediate Spanish (3)
Lec-52.5 P/NP available
Prereq: SPAN 2 or 2B or demonstration of SPAN 2/2B exit skills
Intensive review of grammar, composition, and culture at the intermediate level. Designed for students who need reinforcement and expansion of the structures of the Spanish language. Introduction to authentic texts and Hispanic films to study new cultural perspectives. UC/CSU
C-ID SPAN 200 (SPAN 3A + SPAN 3B)
SPAN 3A is not prerequisite to SPAN 3B. SPAN 3A+3B = SPAN 3

SPAN 5. Advanced Spanish: Hispanic Culture and Civililization (3)
Lec-52.5 P/NP available
Prereq: SPAN 2 or SPAN 2B or demonstration of SPAN 2 or 2B exit skills
Readings in and discussions of Hispanic Civilization from the High Paleolithic to the l7th Century: Spain and Latin America. Designed to improve command of the spoken language through building vocabulary, improving pronunciation and expressing ideas in a more natural manner with some written Spanish practice as well. Conducted in Spanish. UC/CSU
SPAN 5 not prerequisite to SPAN 5S.
Offered on occasion

SPAN 5S. Advanced Spanish: Hispanic Culture and Civililization (3)
Lec-52.5 P/NP available
Prereq: SPAN 2 or SPAN 2B or demonstration of SPAN 2 or 2B exit skills
Readings in and discussions of Hispanic Civilization from the Golden Age to the present: Spain and Latin America. Designed to improve command of the spoken language through building vocabulary, improving pronunciation and expressing ideas in a more natural manner with some written Spanish practice as well. Conducted in Spanish. UC/CSU
SPAN 5 not prerequisite to SPAN 5S.
Offered on occasion

SPAN 6A. Continuation of Intermediate Spanish (3)
Lec-52.5 P/NP available
Prereq: SPAN 3 or SPAN 3B or demonstration of SPAN 3 or 3B exit skills
Intensive review of grammar, culture and composition. Designed for students who need reinforcement and expansion of the structures of the Spanish language. Conducted in Spanish. UC/CSU
C-ID SPAN 210 (SPAN 6A + SPAN 6B)
SPAN 6 = SPAN 6A+6B
Offered Fall semesters

SPAN 6B. Continuation of Intermediate Spanish (3)
Lec-52.5 P/NP available
Prereq: SPAN 3 or SPAN 3B or demonstration of SPAN 3 or 3B exit skills
Intensive review of grammar, culture and composition. Designed for students who need reinforcement and expansion of the structures of

the Spanish language. Conducted in Spanish. UC/CSU
C-ID SPAN 210 (SPAN 6A + SPAN 6B)
SPAN 6 = SPAN 6A + SPAN 6B. SPAN 6A and 6B do not need to be taken consecutively.
Offered Spring semesters

SPAN 7. Introduction to Literature in Spanish (3)
Lec-52.5 P/NP available
Prereq: SPAN 6 or SPAN 6B or demonstration of exit skills
Readings of literary and cultural selections; compositions; review of selected grammar. UC/CSU
Offered on occasion

SPAN 10A. Beginning Conversational Spanish (3)
Lec-52.5 P/NP available
Recommended Prep: Completion of or concurrent enrollment in: SPAN 1 or SPAN 1A or SPAN 1B
Beginner's course: Intensive oral practice of basic structures and vocabulary most often used in conversation. Designed for students who wish to acquire basic skills of spoken Spanish. CSU
Not recommended for native speakers of Spanish
Offered Fall semesters

SPAN 10B. Continuation of Beginning Conversational Spanish (3)
Lec-52.5 P/NP available
Recommended Prep: SPAN 10A
Second semester course: Extensive oral practice of basic structures, cultural aspects, and vocabulary most often used in conversation. Designed for students who wish to acquire basic skills of spoken Spanish. CSU
Not recommended to native speakers of Spanish.
Offered Spring semesters

SPAN 10C. Intermediate Conversational Spanish (3)
Lec-52.5 P/NP available
Recommended Prep: SPAN 10B or demonstration of SPAN 10B exit skills;
Third Semester Course: Extensive oral practice of structures and vocabulary most often used in conversation at the intermediate level and study of aspects of the Spanish-speaking world. CSU
Offered Fall semesters

SPAN 10D. Continuation of Intermediate Conversational Spanish (3)
Lec-52.5 P/NP available
Recommended Prep: SPAN 10C or demonstration of exit skills
Extensive oral practice of structures and vocabulary most often used in conversation at the intermediate high level. Study of life and culture through contemporary films in Spanish. Designed for students who wish to acquire more advanced skills of spoken Spanish. CSU
Not recommended to native speakers of Spanish
Offered Spring semesters

SPAN 22A. Grammar Review and Composition (3)
Lec-52.5 P/NP available
Prereq: SPAN 3 or SPAN 3B or equivalent
Advanced review of grammar and composition with attention to style, vocabulary development, and grammatical structure. Course taught in Spanish. UC/CSU
Offered on occasion

SPAN 22B. Grammar Review and Composition (3)
Lec-52.5 P/NP available
Prereq: SPAN 3 or SPAN 3B or equivalent
Advanced review of grammar and composition with attention to style, vocabulary development, and grammatical structure. Course taught in Spanish. UC/CSU
Offered on occasion

SPAN 22C. Grammar Review and Composition (3)
Lec-52.5 P/NP available
Prereq: SPAN 3 or SPAN 3B or equivalent
Advanced review of grammar and composition with attention to style, vocabulary development, and grammatical structure. Course taught in Spanish. UC/CSU
Offered on occasion

SPAN 31. Spanish for Heritage Speakers 1 (5)
Lec-87.5 P/NP available
Recommended Prep: Oral fluency in Spanish
Designed for bilingual/heritage students who are effective in oral communication in Spanish within their communities, but have little formal training in written forms of the language. Intensive review of grammar, composition, and translation. Emphasis on increasing vocabulary avoiding English interference, reading and writing skills through short essays and guided compositions. UC/CSU
C-ID SPAN 220
Offered Fall semesters

SPAN 31A. Spanish for Heritage Speakers 1A (3)
Lec-52.5 P/NP available
Recommended Prep: Must communicate fluently with ease in Spanish
Designed for bilingual/heritage students who are effective in oral communication in Spanish within their communities, but have little formal training in written forms of the language. Intensive review of grammar, composition and translation. Emphasis on increasing vocabulary, avoiding English interference, and improving reading and writing skills through short essays and guided compositions. UC/CSU
C-ID SPAN 220 (SPAN 31A + SPAN 31B)
SPAN 31A+31B= SPAN 31
Offered Fall semesters

SPAN 31B. Spanish for Heritage Speakers 1B (3)
Lec-52.5 P/NP available
Recommended Prep: Oral fluency in Spanish
Designed for bilingual/heritage students who are effective in oral communication in Spanish within their communities, but have little formal training in written forms of the language. Intensive review of grammar, composition, and translation. Emphasis on increasing vocabulary avoiding English interference, reading and writing skills through short essays and guided compositions. UC/CSU
C-ID SPAN 220 (SPAN 31A + SPAN 31B)
SPAN 31A+31B = SPAN 31
Offered Spring semesters

SPAN 32. Spanish for Heritage Speakers 2 (5)
Lec-87.5 P/NP available
Prereq: SPAN 31 or SPAN 31B or demonstration of exit skills
Intensive review of grammar. Composition and translation. Designed for bilingual/heritage students who are effective in oral communication in Spanish within their communities, but have insufficient formal training in written forms of the Spanish language. Emphasis on increasing vocabulary, reading and writing skills through essays and guided compositions. UC/CSU
C-ID SPAN 230
Spanish 31 is not a prerequisite of Spanish 32.
Offered Spring semesters

SPAN 32A. Spanish for Heritage Speakers 2A (3)
Lec-52.5 P/NP available
Prereq: SPAN 31 or SPAN 31B or demonstration of exit
Continued intensive review of grammar, vocabulary, composition, reading, and translation for heritage speakers. Emphasis on developing advanced academic sentence structure in Spanish, and study of culture of the Spanish-speaking world. Designed for bilingual/heritage students possessing effective oral communication in Spanish, but with little knowledge or formal training in written forms of Spanish. UC/CSU
C-ID SPAN 230 (SPAN 32A + SPAN 32B)
Formerly Intermediate Spanish for Bilingual Students SPAN 32A+SPAN 32B= SPAN 32 Students may take SPAN 32A and SPAN 32B in either order
Offered on occasion

SPAN 32B. Spanish for Heritage Speakers 2B (3)
Lec-52.5 P/NP available
Prereq: SPAN 31 or SPAN 31B or demonstration of exit
Further continued intensive review of grammar, vocabulary, composition, reading, and translation for heritage speakers. Emphasis on developing advanced academic sentence structure in Spanish, and study of culture of the Spanish-speaking world. Designed for bilingual/heritage students possessing effective oral communication in Spanish, but with little knowledge or formal training in written forms of Spanish. UC/CSU
C-ID SPAN 230 (SPAN 32A + SPAN 32B)
Formerly Intermediate Spanish for Bilingual Students SPAN 32A+SPAN 32B= SPAN 32 Students may take SPAN 32A and SPAN 32B in either order
Offered on occasion

SPAN 42. LGBT Voices in Hispanic society (3)
Lec-52.5 P/NP available
Prereq: SPAN 3 or SPAN 3B or demonstration of exit skills
This course, conducted in Spanish, examines literary texts and other media to explore the culture, lives, and social aspects of Lesbian, Gay, Bisexual, and Transgender people in the context of Latin America and Spain, including Latinx population in the United States. UC/CSU
Offered on occasion

Sustainability*

* See Sustainability Certificate in Engineering

Theatre Arts

Office: Art 149
Phone Number: (415) 239-3132
Web Site: *www.ccsf.edu/theatre*

Announcement of Curricula

The Theatre Arts Department provides both academic and production experience in all aspects of theatre. A comprehensive set of courses fulfills general education and transfer requirements.

Purpose. Students participating in the theatre arts program learn to express themselves creatively through application of the theatrical skills of acting, directing, design, technical production, and stagecraft. They develop critical thinking and analytical abilities related to interpreting and criticizing dramatic literature. Students collaborate as effective team members in performing established material or in creating original work.

Among the skills developed:

- Apply learned knowledge and skills to new and varied situations.
- Use feedback to improve performance.
- Implement time management skills to complete a task.
- Identify an objective and devise and implement a plan of action.

Theatre Arts Major (AA-T)

The AA-T in Theatre Arts offers students a comprehensive lower division program in Theatre revolving around a basic core program. The AA-T prepares students for transfer to upper division theatre programs at four-year colleges and universities, particularly to California State University (CSU) campuses.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and apply acting skills, including physical, vocal, imaginative, analytic, and emotional levels.
- Differentiate and analyze theatrical periods and styles of acting, directing, playwriting, and technical elements.
- Analyze theatre as a dynamic art form influencing society.
- Apply technical processes, including lighting, set, costume, and make-up design and production, as they pertain to a given dramatic script.

Degree Requirements. Students who wish to earn the AA-T in Theatre Arts must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Theatre Arts

Course	Units
Required core courses:	
TH A 30 Introduction to Theatre	3.0
or TH A 31 Survey of Classical Drama	3.0
or TH A 32 Survey of Modern Drama	3.0
or TH A 33 Survey of the Art of Comedy	3.0
TH A 150A Beginning Acting Fundamentals	3.0
Choose 3 units from the following	
TH A 61 Technical Theatre Production	1.0 – 3.0
TH A 201A Ensemble Role Comedy Play Rehearsal and Presentation	1.0
TH A 201B Supporting Role Comedy Play Rehearsal Presentation	2.0
TH A 201C Principal Role Comedy Play Rehearsal and Presentation	3.0
TH A 202A Ensemble Role Drama Play Rehearsal and Presentation	1.0

TH A 202B Supporting Role Drama Play Rehearsal Presentation. 2.0
TH A 202C Principal Role Drama Play Rehearsal and Presentation. 3.0
TH A 203A Ensemble Role Classical Play Rehearsal Presentation. 1.0
TH A 203B Supporting Role Classic Play Rehearsal Presentation. 2.0
TH A 203C Principal Role Classic Play Rehearsal and Presentation. 3.0
TH A 204A Ensemble Role Tragedy Play Rehearsal Presentation. 1.0
TH A 204B Supporting Role Tragedy Play Rehearsal Presentation. 2.0
TH A 204C Principal Role Tragedy Play Rehearsal and Presentation. 3.0

Choose 9-10 units from the following
TH A 60 Stagecraft 3.0
TH A 63 Introduction to Lighting Design. 4.0
TH A 80 Introduction to Costume Design 3.0
TH A 81 Introduction to Stage Makeup and Wig Design 3.0
TH A 150B Intermediate Acting Fundamentals 3.0

Total: . . . . . 18.0 – 19.0

Acting Certificate

The Certificate of Achievement in Acting provides students the basic skills and techniques necessary to successfully start a career path, as well as fundamental acting skills for self marketing, filling a need within the community for trained performers. However, most certificate students wishing to pursue professional acting careers must continue to build their resumes through substantial performance experience and will likely pursue additional training through private studios, training programs, or four-year university programs.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply practical aspects of acting, including imaginative, analytic, and emotional levels.
- Compare theatrical periods and styles of acting.
- Perform special acting styles.
- Apply fundamental techniques of voice and actor's craft to an audition for a production.

Students must complete each course with a grade of C or higher. Students must compete the 16 units at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Acting

Course . . . . . Units

Required courses:
TH A 150A Beginning Acting Fundamentals 3.0
TH A 153A Beginning Improvisation. 3.0
TH A 154A Beginning Acting For The Camera 4.0
TH A 160A Beginning Vocal Production and Audition . . 3.0

Choose any combination of three (3) elective units from the following, be it a single 3-unit course, any 1+2-unit combination, or any three 1-unit courses.
TH A 170A Beginning Shakespeare for Actors 3.0
TH A 171A Beginning Storytelling and Performance. . . . 3.0
TH A 201A Ensemble Role Comedy Play Rehearsal and Presentation. 1.0
TH A 201B Supporting Role Comedy Play Rehearsal Presentation. 2.0
TH A 201C Principal Role Comedy Play Rehearsal and Presentation. 3.0
TH A 202A Ensemble Role Drama Play Rehearsal and Presentation. 1.0
TH A 202B Supporting Role Drama Play Rehearsal Presentation. 2.0
TH A 202C Principal Role Drama Play Rehearsal and Presentation. 3.0
TH A 203A Ensemble Role Classical Play Rehearsal Presentation. 1.0
TH A 203B Supporting Role Classic Play Rehearsal Presentation. 2.0
TH A 203C Principal Role Classic Play Rehearsal and Presentation. 3.0
TH A 204A Ensemble Role Tragedy Play Rehearsal Presentation. 1.0
TH A 204B Supporting Role Tragedy Play Rehearsal Presentation. 2.0
TH A 204C Principal Role Tragedy Play Rehearsal and Presentation. 3.0

Total: 16.0

Announcement of Courses

Credit, Degree Applicable Courses:

TH A 30. Introduction to Theatre (3)
Lec-52.5
This course focuses on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design and criticism. Different periods, styles, and genres will be surveyed. UC/CSU
C-ID THTR 111

TH A 31. Survey of Classical Drama (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Readings and analysis of the plays that form the historical foundation of modem European and American drama. Lectures, reading and discussion of plays from ancient Greece through Shakespeare to the 19th century. UC/CSU

TH A 32. Survey of Modern Drama (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Readings and analysis of plays that illustrate the major types of drama written for the modern stage. Lectures, reading and discussion of play scripts dating from the advent of 19th Century realism, through the writing of contemporary authors. UC/CSU

TH A 33. Survey of the Art of Comedy (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Historical analysis of Comedy in its many forms, its performances, and

literature presented on stage resulting in laughter. Lectures, readings, viewings and discussions of comedic performances and literature tracing its development from the mimes of ancient Greece through Shakespeare, and commedia dell'arte, to stage comedy of present day. UC/CSU

TH A 61. Technical Theatre Production (1-3)
Work-60-225 P/NP available
Prereq: Approval of the Theatre Arts Department
Repeat: Repeated up to 12.00 Units
On campus College work experience in technical theatre production, house management and stage management subject to approval and under supervision of a Theatre Arts Department Instructor. One unit of credit is earned for 60 hours of unpaid, or 75 hours of paid work. UC/CSU
C-ID THTR 192

TH A 80. Introduction to Costume Design (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to the process and materials for designing and fabricating costumes for theatrical productions. UC/CSU
Formerly TH A 70

TH A 81. Introduction to Stage Makeup and Wig Design (3)
Lec-35, Lab-70 P/NP available
Introduction to the materials and techniques of wig and makeup design for stage, film, TV, and photography. Traditional and contemporary techniques of makeup application in both classroom and production environments. CSU
C-ID THTR 175

Enrollment Limitations on Physical Education and Visual or Performing Arts Courses
Per title 5 Section 55041, effective Fall 2013, students may not enroll more than four times in "active participatory courses that are related incontent" in the areas of physical education or visual and performing arts,which includes art, dance, music, and theatre. This limitation applies even if a student receives a substandard grade or "W" during one or more of the enrollments in such a course or if the students petition for repetition due to extenuating circumstances. Theatre Arts courses that are related in content are grouped together in"families" of courses below. The families are indicated by their headings,e.g., Play Rehearsal and Performance, Stagecraft, etc. For the most up-to date listing of courses and families, refer to the online catalog, ***www.ccsf.edu/catalog****.*

Stagecraft

TH A 60. Stagecraft (3)
Lec-35, Lab-70 P/NP available
Introduction and practical experience in stage scenery construction, stage properties selection, lighting execution, sound design, scenic painting techniques, and stage management through class lab work and participation in departmental productions UC/CSU
C-ID THTR 171

Set Design

TH A 62. Introduction to Stage Design (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to the basic techniques used in stage design for live performance with emphasis on the art of scenic design through drafting techniques, model making, ground plans, as well as script analysis for the practical application of these skills. UC/CSU
Offered Fall semesters

Lighting Design

TH A 63. Introduction to Lighting Design (4)
Lec-52.5, Lab-52.5 P/NP available
Introduction to the basic techniques used in lighting design for live performance with emphasis on the art of lighting design, script analysis, lighting equipment needs, safety and uses, drafting techniques as well as color theory for the practical application of these concepts. UC/CSU
C-ID THTR 173
Offered Spring semesters

Directing for the Theatre

TH A 107A. Introduction to Directing for the Theatre (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Introductory-level examination of the function of a stage director and the techniques of stage direction with application through practical experiences focusing on scene work. UC/CSU
Formerly TH A 107
Offered on occasion

TH A 107B. Intermediate Directing for the Theatre (3)
Lec-52.5
Prereq: TH A 107A
Intermediate-level examination of the function of a stage director and the techniques of stage direction with application through practical experiences focusing on one-act plays. UC/CSU
Offered on occasion

TH A 107C. Advanced Directing for the Theatre (3)
Lec-52.5
Prereq: TH A 107B
Advanced-level examination of the function of a stage director and the techniques of stage direction with application through practical experiences focusing on a full-length play. UC/CSU
Offered on occasion

Acting Fundamentals

TH A 150A. Beginning Acting Fundamentals (3)
Lec-52.5
Beginning level examination, practice and execution of the fundamentals of acting. Staging techniques, improvisation, theatre games, stage movement, and acting terminology. Classroom preparation and presentation of monologues and ensemble work. UC/CSU
C-ID THTR 151
Formerly TH A 150

TH A 150B. Intermediate Acting Fundamentals (3)
Lec-52.5
Prereq: TH A 150A
Intermediate level examination, practice and execution of the fundamentals of acting. The focus on using staging techniques, improvisation, theatre games, stage movement, and applying acting terminology. Classroom preparation and presentation of monologues and ensemble work. UC/CSU
C-ID THTR 152

TH A 150C. Advanced Acting Fundamentals (3)
Lec-52.5, field trips
Prereq: TH A 150B
Advanced level examination, practice and execution of the fundamentals of acting. The focus on mastering staging techniques, improvisation, theatre games, stage movement, and acting terminology. Classroom preparation and presentation of monologues and ensemble work at an advanced level. UC/CSU

Scene Study

TH A 151A. Beginning Character Development and Scene Study (3)
Lec-52.5 P/NP available
Recommended Prep: TH A 150A
Beginning level analysis, development and creation of believable characters, and in-class performance. Concentration on studying scene evolution in an ensemble setting of plays selected from diverse dramatic literature. UC/CSU
Formerly TH A 151
Offered on occasion

TH A 151B. Intermediate Character Development and Scene Study (3)
Lec-52.5 P/NP available
Prereq: TH A 151A
Intermediate level analysis, development and creation of believable characters, and in-class performance. Special emphasis on the playwright's "given circumstances" and character development. Communication onstage demonstrated through scene presentation. UC/CSU
Offered on occasion

TH A 151C. Advanced Character Development and Scene Study (3)
Lec-52.5 P/NP available
Prereq: TH A 151B
Advanced level analysis, development and creation of believable characters, in relation to text analysis of characters from diverse material. Special emphasis on social-cultural influences on both character and text through in class scene presentation. UC/CSU
Offered on occasion

Performance Project

TH A 152C. Performance Projects: Contemporary Plays (3)
Lec-52.5, field trips
Recommended Prep: TH A 30
Development of contemporary plays that will be performed in a studio setting. Investigation of the development of performance skills as they relate to the audience and to the specific studio space. UC/CSU
Offered on occasion

Physical Theatre

TH A 153A. Beginning Improvisation (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Beginning-level instruction in the acting skill of creating original material by performers for presentation through techniques of improvisation and scenario. Beginning-level actor-generated narrative and play script development in an ensemble setting. UC/CSU
Formerly TH A 153

TH A 153B. Intermediate Improvisation (3)
Lec-52.5
Prereq: TH A 153A
Intermediate-level instruction in the acting skill of creating characters through original and spontaneous material developed by performers for presentation through techniques of improvisation and scenario. Focus on actor's improvised communication and character relationships. UC/CSU

TH A 153C. Advanced Improvisation (3)
Lec-52.5
Prereq: TH A 153B
Advanced-level instruction in the acting skill of creating characters through original and spontaneous material developed by performers for presentation through techniques of improvisation and scenario. Focus on spontaneous group presentations with character interaction and given circumstances, in the long-form improvisation structure. UC/CSU

Acting in Media

TH A 154A. Beginning Acting For The Camera (4)
Lec-52.5, Lab-60
Recommended Prep: Readiness for college-level English or ESL 188
Beginning level development of performance skills for video, film and electronic media applications with emphasis on identifying and defining an on-camera persona in a production context. UC/CSU
Formerly TH A 154

TH A 154B. Intermediate Acting For The Camera (4)
Lec-52.5, Lab-60
Prereq: TH A 154A
Intermediate-level development of performance skills for video, film and electronic media applications with emphasis on dramatic characterization in a production context utilizing text to performance techniques. UC/CSU

TH A 154C. Advanced Acting For The Camera (4)
Lec-52.5, Lab-60
Prereq: TH A 154B
Advanced-level development of performing skills for video, film and electronic media applications with emphasis on application of practical skills to transition to a professional environment. UC/CSU

Vocal Production and Audition

TH A 160A. Beginning Vocal Production and Audition (3)
Lec-52.5
Recommended Prep: Readiness for college-level English or ESL 188
Beginning instruction in the study of the anatomy of the vocal mechanism. Practice of voice and articulation with an emphasis on Standard American English for the stage to develop the actor's process in preparation for performance and audition, selection of materials, and presentation of self in various audition settings. UC/CSU
Formerly TH A 160
Offered Spring semesters

TH A 160B. Intermediate Vocal Production and Audition (3)
Lec-52.5
Prereq: TH A 160A
Intermediate instruction in the study of the anatomy of the vocal mechanism. Practice transcription of sounds into International Phonetics for voice and articulation with an emphasis on Standard American English for the stage, and to develop the actor's process in preparation for performance and selection of materials for various audition settings. UC/CSU
Offered Spring semesters

TH A 160C. Advanced-Intermediate Vocal Production and Audition (3)
Lec-52.5
Prereq: TH A 160B
Advance-Intermediate instruction in the study of the anatomy of the vocal mechanism. Practice of voice and articulation in preparation of classical and contemporary auditions. Focused auditioning exercises for the stage to develop the actor's process in preparation for performance and audition and selection of materials in various audition settings. UC/CSU
Offered Spring semesters

TH A 160D. Advanced Vocal Production and Audition (3)
Lec-52.5
Prereq: TH A 160C
Advanced instruction in the study of the anatomy of the vocal mechanism. Practice of voice and articulation with an emphasis on dialects for the stage to develop the actor's process in preparation for performance and audition, selection of materials, and presentation of self in various audition settings. UC/CSU
Offered Spring semesters

Shakespeare for Actors

TH A 170A. Beginning Shakespeare for Actors (3)
Lec-52.5
Recommended Prep: TH A 150A and (ESL 188 or readiness for college- level English
Beginning instruction in the use of text techniques interpreting poetic imagery and vocal exercises for the actor used in the performance of Shakespearean verse and prose. The class will develop the student's approach to address analytic skills, historical research, vocal skills and interpretive skills to perform William Shakespeare's canon. UC/CSU
Offered Fall semesters

TH A 170B. Intermediate Shakespeare for Actors (3)
Lec-52.5
Prereq: TH A 170A
Intermediate instruction in the use of text techniques interpreting poetic imagery and exercises for the actor to use in the performance of Shakespearean verse and prose. Focusing the actor's voice and developing the use of Standard American Speech in order to perform William Shakespeare's canon for an American audience. UC/CSU
Offered Fall semesters

TH A 170C. Advanced Intermediate Shakespeare for Actors (3)
Lec-52.5
Prereq: TH A 170B
Advanced intermediate instruction of text techniques of interpreting poetic imagery, vocal exercises for the actor to use in the performance of Shakespearean verse and prose applied to scene work. The class will develop the student's approach to address character development from William Shakespeare's "Comic" or "Romance" plays. UC/CSU
Offered Fall semesters

TH A 170D. Advanced Shakespeare for Actors (3)
Lec-52.5
Prereq: TH A 170C
Advanced instruction of text techniques of interpreting poetic imagery, vocal exercises for the actor to use in the performance of Shakespearean verse and prose applied to scene work. The class will develop the student's approach to address character development from William Shakespeare's "Tragic" or "Historic" plays. UC/CSU
Offered on occasion

Performing Storytelling

TH A 171A. Beginning Storytelling and Performance (3)
Lec-52.5, field trips
Recommended Prep: Readiness for college-level English or ESL 188
Beginning instruction in the acting skill of storytelling through performance exercises, improvisations, writing of original work, and the use of the literature of folklore, myth, and monologue focusing on narrative, creation of character and the telling of stories in an ensemble setting. UC/CSU
Offered Fall semesters

TH A 171B. Intermediate Storytelling and Performance (3)
Lec-52.5, field trips
Prereq: TH A 171A
Intermediate level instruction in the acting skill of editing for the presentation of stories through performance exercises, improvisations, writing of original work, and the use of the literature of folklore, myth, and monologue focusing on narrative, creation of character and the telling of stories in an ensemble setting. UC/CSU
Offered Fall semesters

TH A 171C. Advanced Intermediate Storytelling and Performance (3)
Lec-52.5, field trips
Prereq: TH A 171B
Advanced intermediate level instruction in the acting skill of editing for the presentation of stories through performance exercises, improvisations, and the use of material from holiday tales and creation mythology, focusing on production of a public performance. UC/CSU
Offered Fall semesters

TH A 171D. Advanced Storytelling and Performance (3)
Lec-52.5, field trips
Prereq: TH A 171C
Advanced level instruction in the acting skill of storytelling. Focus on individual skill through performance exercises, improvisations, writing of original work. Uses the literature of folklore, myth, and monologue, focusing on narrative, creation of character and characters' narrative monologues. UC/CSU
Offered on occasion

Comedy-Play Rehearsal and Performance

TH A 201A. Ensemble Role Comedy - Play Rehearsal and Presentation (1)
Lab-35 P/NP available
Prereq: Approval of the Theater Arts Department
Ensemble-level performance preparation and training through participation in a comedic play presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform an ensemble role in a production in the comedy genre in order to receive credit. UC/CSU
C-ID THTR 191
Enrollment by audition and interview by the Theater Arts Department.
Offered on occasion

TH A 201B. Supporting Role Comedy - Play Rehearsal Presentation (2)
Lab-70 P/NP available
Prereq: Approval of the Theater Arts Department
Supporting-level performance preparation and training through participation in a comedy presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform a supporting role in a production in the comedy genre in order to receive credit. UC/CSU
C-ID THTR 191
Enrollment by audition and interview with the Theater Arts Department
Offered on occasion

TH A 201C. Principal Role Comedy - Play Rehearsal and Presentation (3)
Lab-105 P/NP available
Prereq: Approval of the Theater Arts Department
Principal performance preparation and training through participation in a comedy presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform a principal role in a production in the comedy genre in order to receive credit. UC/CSU
C-ID THTR 191
Enrollment by audition and interview by the Theater Arts Department.
Offered on occasion

Drama-Play Rehearsal and Performance

TH A 202A. Ensemble Role Drama - Play Rehearsal and Presentation (1)
Lab-35 P/NP available
Prereq: Approval of the Theater Arts Department
Ensemble-level performance preparation and training through participation in a drama presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform an ensemble role in a production in the drama genre in order to receive credit. UC/CSU
C-ID THTR 191
Enrollment by audition and interview by the Theater Arts Department.
Offered Fall semesters

TH A 202B. Supporting Role Drama - Play Rehearsal Presentation (2)
Lab-70 P/NP available
Prereq: Approval of Theater Arts Department
Supporting-level performance preparation and training through participation in a drama presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform a supporting role in a production in the drama genre in order to receive credit. UC/CSU
C-ID THTR 191
Enrollment by audition and interview with the Theater Arts Department
Offered Fall semesters

TH A 202C. Principal Role Drama - Play Rehearsal and Presentation (3)
Lab-105 P/NP available
Prereq: Approval of Theater Arts Department
Principal performance preparation and training through participation in a drama presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform a principal role in a production in the drama genre in order to receive credit. UC/CSU
C-ID THTR 191
Enrollment by audition and interview by the Theater Arts Department.
Offered Fall semesters

Classical-Play Rehearsal and Performance

TH A 203A. Ensemble Role Classical - Play Rehearsal Presentation (1)
Lab-35 P/NP available
Prereq: Approval of the Theater Arts Department
Ensemble-level performance preparation and training through participation in a classical play presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform an ensemble role in a production in the classical genre in order to receive credit. UC/CSU
C-ID THTR 191
Enrollment by audition and interview by the Theater Arts Department.
Offered on occasion

TH A 203B. Supporting Role Classic - Play Rehearsal Presentation (2)
Lab-70 P/NP available
Prereq: Approval of the Theater Arts Department
Supporting-level performance preparation and training through participation in a classical play presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform a supporting role in a production in the classical genre in order to receive credit. UC/CSU
C-ID THTR 191
Enrollment by audition and interview with the Theater Arts Department
Offered on occasion

TH A 203C. Principal Role Classic - Play Rehearsal and Presentation (3)
Lab-105 P/NP available
Prereq: Limitation on enrollment — by audition/interview
Principal performance preparation and training through participation in a classical presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform a principal role in a production in the classical genre in order to receive credit. UC/CSU
C-ID THTR 191
Enrollment by audition and interview by the Theater Arts Department.
Offered on occasion

Tragedy-Play Rehearsal and Performance

TH A 204A. Ensemble Role Tragedy - Play Rehearsal Presentation (1)
Lab-35 P/NP available
Prereq: Approval of the Theater Arts Department
Ensemble-level performance preparation and training through participation in a tragic play presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform an ensemble role in a production in the drama genre in order to receive credit. UC/CSU
C-ID THTR 191
Enrollment by audition and interview by the Theater Arts Department.
Offered Spring semesters

TH A 204B. Supporting Role Tragedy - Play Rehearsal Presentation (2)
Lab-70 P/NP available
Prereq: Approval of the Theater Arts Department
Supporting-level performance preparation and training through participation in a tragedy presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform a supporting role in a production in the tragedy genre in order to receive credit.
UC/CSU
C-ID THTR 191
Enrollment by audition and interview with the Theater Arts Department
Offered Spring semesters

TH A 204C. Principal Role Tragedy - Play Rehearsal and Presentation (3)
Lab-105 P/NP available
Prereq: Approval of the Theater Arts Department
Principal performance preparation and training through participation in a tragedy presented by the Theatre Arts Department. Students must audition, be cast, rehearse, and perform a principal role in a production in the tragedy genre in order to receive credit.
UC/CSU
C-ID THTR 191
Enrollment by audition and interview by the Theater Arts Department.
Offered Spring semesters

Related Courses:

BCST 115. Announcing and Performance (3)
Lec-52.5, field trips
Recommended Prep: BCST 120 and (readiness for college-level English or ESL 188)
Introduction to basic theory and practice in interpretation of copy, pronunciation, and announcer's duties for radio, television, podcast and web video. Study and practice of oral skills for effective communication of meaning in scripts, newscasts, voiceovers and commercial messages with emphasis on development of voice, articulation and pronunciation. CSU
Offered Spring semesters

CMST 38. Forensics Competition (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Repeat: Students can repeat three times (total 4 enrollments)
Development of speaking and argumentation skills through participation in intercollegiate speech and debate tournaments. Course repetition allows mastery of communication skills through the recursive process of researching, writing, practicing, and delivering speeches. CSU
C-ID COMM 160B
Formerly SPCH 38.

Trade Skills*

* See Automotive/Motorcycle, Construction, and Building Maintenance.

Transitional Studies

Office: Mission Center
Phone Number: (415) 920-6131
Web Site: *https://www.ccsf.edu/academics/schools/esl-international-ed-and-transitional-studies/transitional-studies-department*

Announcement of Curricula

General Information

The Transitional Studies Department offers ongoing instruction in CCSF High School Diploma Program, General Educational Development (GED), Adult Basic Education (ABE), and Vocational Foundation Skills. The curriculum consists of noncredit courses in reading, writing, mathematics and specific subjects at (as) elementary, intermediate and advanced levels. Instructional methodology includes both individualized and traditional classroom instruction. Online instruction is available

All courses are free of charge and are without college credit.

Program Goals. Provide a comprehensive program leading to the CCSF High School Diploma; prepare students to pass the GED examination and/or HiSET(High School Equivalency Test); help students to achieve competency in Adult Basic Education; provide students with basic skills for living, employment; develop student readiness to succeed in college credit classes and Career/Technical Certificate programs.

Admission Requirements. All skill levels are accepted. After testing in reading, writing and mathematics, students are enrolled at a level matching their skills and geared toward their educational objectives. Students studying for the high school equivalency tests in Spanish are required to be fluent and literate in Spanish. **Offered at the following center:**

Mission Center Maria Rosales-Uribe, Chair
at ***marosale@ccsf.edu***

CCSF High School Diploma Program HS Diploma

The City College of San Francisco High School Diploma Program is open to adult students who meet placement requirements. The program is also open to concurrently enrolled high school students who are in the 11th or 12th grades and who require high school credits to transfer to their home high schools.

Concurrently enrolled high school students may earn high school credits that transfer to their home high school by enrolling in Transitional Studies courses by arrangement with the student's high school counselor.

Credits may be earned in three ways: by completing course work, or by earning 12.5 points for each GED subtest and 10 points for each HiSET subtest that the student successfully passes.

For more information on both these tests go to ***https://www.ccsf.edu/en/student-services/matriculation_services/ged_center/ged_definition.html***

Equivalent high school courses taken at other schools, or comparable college credit classes, may satisfy coursework requirements. Credits may be fulfilled by successful completion of courses in Transitional Studies, CCSF Vocational programs, English as a Second Language (ESL), CCSF credit classes or, with the TRST Department Chair's permission, any CCSF course. Additionally, courses earned at other

high school or college institutions may be transferred to the CCSF HS Diploma Program.

The CCSF High School Diploma's Program Learning Outcomes are derived from the Common Core State Standard and CASAS competencies.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply quantitative concepts and critical reasoning to address complex problems
- Locate, evaluate, and synthesize multiple forms of information from diverse disciplines and use proper attribution
- Apply effective and respectful communication skills.
- Integrate diverse perspectives using critical and creative reasoning
- Articulate an understanding of the history and values of diverse cultures including one's own.
- Assess one's own achievements and cultivate resources for educational and /or career growth
- Recognize and interpret creative expression

Residency requirement. At least 20 credits must be earned in the Transitional Studies Department or, with the Department Chair's permission, in other CCSF departments.

English requirement. to qualify for the CCSF HS Diploma, a student must have completed with a grade of "C" or better, at least one of the Transitional Studies core required English classes, or a CCSF degree-applicable class in the English Department.

Mathematics requirement. to qualify for the CCSF HS diploma, a student must have completed with a grade of "C" or better, at least one of the Transitional Studies core required mathematics classes, or a CCSF degree-applicable class in the Mathematics Department.

Completion time will vary based on student preparation and number of high school credits completed at other institutions. The minimum time for completion of this program is 1 semester because of the residency requirement.

Courses Required for the HS Diploma in CCSF High School Diploma Program

Course . . . . . Hours

High School Science Choose 360 hours (20 high school credits) from the following

TRST 3631 High School Physical Science 90.0
TRST 3642 Biology 90.0
TRST 3643 High School Ecology 90.0
TRST 3644 Physics 90.0

High School Social Science Choose 540 hours (30 high school credits) from the following

TRST 3531 High School United States History 1 . . . . . 90.0
TRST 3532 United States History 2 . . . . . 90.0
TRST 3533 Civics 90.0
TRST 3534 Economics 90.0
TRST 3535 Modern World History 90.0
TRST 3536 Ethno-Social Justice 90.0
TRST 3537 H.S. United States History 3 . . . . . 90.0
TRST 3538 Contemporary World History 90.0

High School Humanities Choose 180 hours (10 high school credits) from the following

TRST 3721 Visual Arts 90.0
TRST 3732 Expressions of the Seven Dimensions in World Religions 90.0
TRST 3733 Art and Literature 90.0

High School English Choose 540 hours (30 high school credits) from the following

TRST 1322 Academic Reading/Writing 1.5 . . . . . 90.0
TRST 2322 Academic Reading/Writing 2.5 . . . . . 90.0
TRST 2323 Media Literacy 90.0
TRST 2731 The Americas in Film 90.0
TRST 3331 Academic Reading and Writing 3 . . . . . 90.0
TRST 3332 Grammar and Writing 90.0
TRST 3333 Introduction to Public Speaking 90.0
TRST 3334 Discovering Literature 90.0
TRST 3335 Exploring Literature 90.0
TRST 3346 H.S. Literature and Composition 90.0
TRST 3347 Contemporary American Writers 90.0
TRST 3348 Academic Writing 2 . . . . . 90.0
TRST 3733 Art and Literature 90.0
TRST 3734 High School Humanities 90.0

High School Mathematics Choose 360 hours (20 high school credits) from the following:

TRST 3421 High School Algebra 1A 90.0
TRST 3422 Algebra 1B 90.0
TRST 3423 High School Geometry 1A 90.0
TRST 3424 High School Geometry 1B 90.0
TRST 5042 High School Equivalency Prep: Mathematics . 90.0
TRST 5055 Mathematical Concepts in Algebra and Geometry 90.0

High School Electives Choose 900 hours (50 high school credits) from the courses not selected previously or from the following

TRST 2421 Math Skills Development 2 . . . . . 90.0
TRST 2422 Math Skills Lab 90.0
TRST 2533 Health Education 90.0
TRST 5036 English 1 . . . . . 90.0
TRST 5038 Introduction to Academic Success 90.0

Total: 2880.0

Announcement of Courses

Noncredit Courses:

TRST 5036. English 1 (90-90 hrs)
Recommended Prep: TRST 2322
An advanced course designed to develop reading, writing, and critical thinking skills. Credits earned can be used towards the City College of San Francisco High School Diploma.
Offered Fall and Spring semesters

TRST 5038. Introduction to Academic Success (90 hrs)
Recommended Prep: TRST 2322
This is a high school level preparatory course with an emphasis on reading and writing expository texts with the goal of establishing academic skills necessary for career and college success.
Offered Fall and Spring semesters

TRST 5042. High School Equivalency Prep: Mathematics (90 hrs)
Recommended Prep:TRST 2421
Prepares students for the GED Mathematical Reasoning test, TASC or HiSET Math test, and/or credit math courses. Topics include quantita

tive reasoning with whole numbers, fractions, decimals, percents, and related word problems; data measurement and analysis; an introduction to algebraic reasoning; and geometric measurement.
Offered Fall and Spring semesters

TRST 5055. Mathematical Concepts in Algebra and Geometry (90 hrs)
Recommended Prep: TRST 2421 or TRST 2422
Mathematical concepts and theories in algebra and geometry. Credits earned may be applied toward meeting the CCSF High School Diploma requirements in Area E: Mathematics.
Offered Fall and Spring semesters

Level I

Beginning and Basic Instruction in Reading, Writing, Communicating and Mathematics

TRST 1322. Academic Reading/Writing 1.5 (90 hrs)
Recommended Prep: ESLN 3500
A beginning course designed to develop reading and writing skills. Credits earned can be used towards CCSF High School Diploma.
Offered Fall and Spring semesters

TRST 1324. Academic Writing 1 (90 hrs)
Beginning course in writing with emphasis on sentence mechanics and paragraph development. Credits earned can be used towards CCSF High School Diploma.
Offered Fall and Spring semesters

Level II

Intermediate Instruction in Reading, Writing, Communicating and Mathematics

TRST 2322. Academic Reading/Writing 2.5 (90 hrs)
Recommended Prep: ESLN 3780 or TRST 1322
An intermediate course designed to develop reading, writing, and critical thinking skills. Credits earned can be used towards City College of San Francisco English requirements towards the CCSF High School Diploma.
Offered Fall and Spring semesters

TRST 2323. Media Literacy (90 hrs)
Recommended Prep: ESLN 3700 or TRST 1322
Students will learn the basic skills needed to decipher media messages and understand the impact such messages have on personal and societal decision making.
Offered on occasion

TRST 2421. Math Skills Development 2 (90 hrs)
A fundamental math course focusing on decimals, fractions, ratios, proportions, percentages, and number line theory.
Offered Fall and Spring semesters

TRST 2422. Math Skills Lab (90 hrs)
This is a self-paced lab in basic mathematics, which includes whole numbers, fractions, decimals,and percentages. It is an open entry, open exit course.
Offered Fall and Spring semesters

TRST 2533. Health Education (90 hrs)
Recommended Prep: ESLN 3580
Introduction to basic health information that addresses the promotion of physical, mental, emotional, and social dimensions of health
Offered on occasion

TRST 2731. The Americas in Film (90 hrs)
Recommended Prep: TRST 1322
The study of the societies of Latin America, the United States, and Canada using film. Themes such as injustice, rebellion, and identity will be explored.
Offered on occasion

Level III

Advanced classes in reading, writing, communicating, mathematics and critical thinking in specific High School subjects. Required coursework for the City College of San Francisco High School Diploma Program. Courses also prepare students for subject matter examinations on the GED and for transfer to credit.

TRST 3331. Academic Reading and Writing 3 (90 hrs)
Recommended Prep: TRST 2322
A high school level academic reading and writing course with an emphasis on reading expository text and writing essays.
Offered Fall and Spring semesters

TRST 3332. Grammar and Writing (90 hrs)
Prereq: TRST 1324 or CASAS score of 225 or higher
Intermediate course in the writing process with emphasis on sentence mechanics and coherent paragraph development. Credits earned can be used towards CCSF High School Diploma.
Offered Fall and Spring semesters

TRST 3333. Introduction to Public Speaking (90 hrs)
Recommended Prep: ESLN 3700
This course is designed to give students basic skills to deliver speeches that convey clear perspectives and solid reasoning.
Offered Fall semesters

TRST 3334. Discovering Literature (90 hrs)
Recommended Prep: ESLN 3700; TRST 2322
A beginning course designed to develop critical reading and writing skills, and to introduce significant works of literature, studying recurrent patterns and themes.
Offered Fall and Spring semesters

TRST 3335. Exploring Literature (90 hrs)
Recommended Prep: TRST 3334
An intermediate course designed to continue development of critical reading and writing skills using significant works of literature to study recurrent patterns and themes.
Offered Fall and Spring semesters

TRST 3346. H.S. Literature and Composition (90 hrs)
Recommended Prep: TRST 3335
Advanced course designed to develop student awareness of their own ideological framework and writing style, and strengthen their writing, editing, and critical thinking skills in response to multicultural literature in preparation for college English courses.
Offered Fall and Spring semesters

TRST 3347. Contemporary American Writers (90 hrs)
Recommended Prep: TRST 3335
A high school English course in which students interpret, analyze, and

respond to contemporary American fiction and nonfiction texts.
Offered Fall and Spring semesters

TRST 3348. Academic Writing 2 (90 hrs)
Recommended Prep: TRST 3332
Advanced writing course with emphasis on essay writing
Offered Fall and Spring semesters

TRST 3421. High School Algebra 1A (90 hrs)
Recommended Prep: TRST 2421
A first course in High School Algebra. Operations on integers and rational numbers; properties of rational numbers; exponents; expressions, inequalities, polynomials, factoring, and word problems.
Offered Fall and Spring semesters

TRST 3422. Algebra 1B (90 hrs)
Recommended Prep: TRST 3421
A second course in high school algebra: radical expressions and rational exponents; introduction to graphing; solving linear equations, linear inequalities, systems of two linear equations, and quadratic equations; and related applications.
Offered Fall and Spring semesters

TRST 3423. High School Geometry 1A (90 hrs)
Recommended Prep: TRST 3421
A first course in high school geometry. Topics include point, lines, and planes; classification of angles; triangles and the Pythagorean theorem; classifications of polygons; perimeters and areas of polygons; circumference and area of circles; surface areas and volumes of three-dimensional shapes.
Offered Fall and Spring semesters

TRST 3424. High School Geometry 1B (90 hrs)
Recommended Prep: TRST 3423
A second course in Geometry: Aside from learning the skills and concepts of angles, triangles, polygons, polyhedra, and spheres, students will develop their ability to construct formal, logical arguments and proofs in geometric settings and problems.
Offered Fall and Spring semesters

TRST 3531. High School United States History 1 (90 hrs)
Recommended Prep: TRST 2322
A high school history survey course of the eras between the discovery and exploration of the Americas to the Antebellum Era of the United States. Fulfills Social Science Core high school credits.
Fulfills Social Science Core high school credits.
Offered Fall and Spring semesters

TRST 3532. United States History 2 (90 hrs)
Recommended Prep: TRST 2322
A high school history survey of the eras between the Civil War and the Eve of the Great Depression. Fulfills Social Science core high school credits.
Offered Fall and Spring semesters

TRST 3533. Civics (90 hrs)
Recommended Prep: Placement into TRST 3533
This course examines the value of the U.S. Constitution as a means to provide laws, rights, and protections for citizens of the United States. Evaluation and review of the key elements of representative form of democracy, including the idea that authority to govern resides with the people.
Offered on occasion

TRST 3534. Economics (90 hrs)
Recommended Prep: Placement into TRST 3534
This course examines the ways economics affects individuals and groups in the private and public sector, and basic economic principles and their applications in the free enterprise system.
Offered on occasion

TRST 3535. Modern World History (90 hrs)
Recommended Prep: Placement in TRST 3535
This course considers the most fundamental cultural, social, political, and economic trends of the Modern World History Era (MWH 1750-1920), including the Global Market Expansion, the Industrial Revolution, Imperialism, and WWI.
Offered Fall and Spring semesters

TRST 3536. Ethno-Social Justice (90 hrs)
Recommended Prep: TRST 2322
Using the lens of social justice, this class will explore basic concepts and theories for analyzing dynamics of ethnic group experiences, particularly those represented in California, and their relation to colonization, immigration, gender, problems of identity, racism, and social class.
Formerly Social Justice
Offered on occasion

TRST 3537. H.S. United States History 3 (90 hrs)
Recommended Prep: TRST 2322
A high school history survey of the eras between the Great Depression and the present. Fulfills Social Science Core high school credits. Complies with Historical Thinking Standards from National Center for History and Common Core State Standards.
Offered on occasion

TRST 3538. Contemporary World History (90 hrs)
Recommended Prep: TRST 2322
Focus on the major turning points that shaped the contemporary world from Post World War One to the global interdependence of today. Topics include the rise of totalitarian governments, the search for stability and peace, and 20th-century cultural trends.
Formerly TRST 5052
Offered on occasion

TRST 3631. High School Physical Science (90 hrs)
Recommended Prep: TRST 2422
This high school course is a general introduction to physical science and scientific methodology. It covers the basics of physics, chemistry, and astronomy to prepare students for future science classes. Basic math will be used to illustrate some of the basic scientific principles.
Fulfills CCSF high school diploma science requirements
Offered on occasion

TRST 3642. Biology (90 hrs)
Recommended Prep: TRST 2322
A general introduction to cell structure and functions, the cell cycle, and principles of molecular and organism genetics
Offered Fall and Spring semesters

TRST 3643. High School Ecology (90 hrs)
An introductory course in ecological concepts, including structure and function of the biosphere, biomes, biotic and abiotic factors in an

ecosystem, biochemical and nutrient cycles, interaction among species, changes in populations, and current conservation in society.
Offered Fall and Spring semesters

TRST 3644. Physics (90 hrs)
Recommended Prep: TRST 3422
An introductory course in physics. Content is taught at a conceptual level using basic math such as ratios, square roots, scientific notation, graph interpretation, slope, and simple scalar and vector algebra. Topics include forces, motion, energy, momentum, work, power, simple machines, waves, electricity, and magnetism.
Offered Fall and Spring semesters

TRST 3721. Visual Arts (90 hrs)
Students learn techniques, elements of art, principles of design and the historical and cultural contexts of visual art by viewing reproductions of works and producing original works of their own.
Offered on occasion

TRST 3732. Expressions of the Seven Dimensions in World Religions (90 hrs)
Recommended Prep: TRST 2322
This course focuses on the common elements among all faith and the historical development and core beliefs of major religions of the world: Hinduism, Buddhism, Judaism, Christianity, Islam, Shintoism, Daoism, and Sikism.
Offered on occasion

TRST 3733. Art and Literature (90 hrs)
Recommended Prep: TRST 1322
A course designed to develop student awareness of the ways in which literature and visual art address similar themes, and to strengthen writing and editing skills, as well as visual art techniques.
Offered Fall and Spring semesters

TRST 3734. High School Humanities (90 hrs)
A course designed for students to develop reading and critical thinking skills. Credits earned may be applied toward meeting the CCSF High School Diploma requirements in Area C: Humanities or English.
Formerly TRST 5053
Offered on occasion

Vocationally Related Courses

Prepare for Employment, Entry Into Job Training Programs, or Further College Study

TRST 4600. Vocational Foundation Skills--Reading and Writing (30-90 hrs)
Competency-based course designed to support student academic success in career, technical and vocational programs. Students learn and use workplace essential skills in reading and writing.
Offered on occasion

TRST 4606. Vocational Foundation Skills - Mathematics I (36 hrs)
Preliminary short-term competency-based course designed to support student academic success in career, technical and vocational programs. Students learn and use vocational foundation skills in mathematics.
Offered on occasion

Visual Media Design

Office: Visual Arts 103
Phone Number: (415) 239-3481
Web Site: *www.ccsf.edu/vmd*

Announcement of Curricula

General Information

The Visual Media Design Department provides educational programs for a broad range of design activities and media platforms. Enrollment is open to all interested students.

Our curriculum includes courses in graphic/visual design and production for interactive and print media, typography, digital illustration, digital imaging, animation, book arts and letterpress. Our degree and certificate programs prepare students for entry-level employment or transfer to university programs for further study. Curriculum specifics given on the following pages.

Graphic Design Major (AA)

We live in a time of information overload—subjected to a nonstop stream of words, images, and sounds. The role of the designer is to shape content in a meaningful way—using text, imagery, color and motion to convey ideas to users in the most effective and engaging manner possible.

The Graphic Design major was created to provide students with a strong foundation in the fundamental aspects of the designer's art. Students develop creativity and ideation skills, learn the theories of communication design and apply this to a broad range of static and interactive projects. Communication in all forms—visual, verbal and written—is stressed. The program is hands-on, integrating conceptual design studies with current digital tools and production methods. Advanced students have the opportunity to further develop their skills in Emerge Studio, a design studio practicum that provides quality communications pieces to the campus community.

The Graphic Design major is designed for students with no previous college degree, and prepares students to continue their studies in a 4-year institution or enter the design profession. Students are encouraged to meet with a program advisor to discuss their goals.

Learning Outcomes

Upon completion of this program, students will be able to:

- Employ and document a structured design process to develop design solutions, working both individually and collaboratively.
- Employ appropriate aesthetic form and content to create effective communication design.
- Select appropriate tools, materials and processes for a range of design contexts and media platforms.
- Analyze and discuss the merits of design work, using relevant concepts and terminology
- Develop and maintain a professional portfolio of work.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete infor

mation. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Graphic Design

Course	Units
First Semester:	
VMD 100 Orientation to Visual Media Design	1.0
VMD 105 Visual Media Digital Skills	3.0
First Semester—choose one of the following courses:	
VMD 101 Design Fundamentals	3.0
or DSGN 101 Design Fundamentals	3.0
or PHOT 100 Design Fundamentals	3.0
Second Semester:	
VMD 120 Graphic Design I	3.0
VMD 130 Typography I	3.0
VMD 140 Web Production I	3.0
VMD 152 InDesign I	3.0
VMD 154 Photoshop I	3.0
Third Semester:	
VMD 122 Graphic Design II	3.0
VMD 127 User Experience	3.0
VMD 131 Typography II	3.0
VMD 150 Illustrator I	3.0
Fourth Semester:	
VMD 190 Portfolio Preparation	3.0
VMD 200A Design Studio Practicum I	3.0
Fourth Semester—choose one of the following design courses:	
VMD 124A Information Design	2.0
or VMD 124B Package Design	2.0
or VMD 124C User Interface Design	2.0
Total:	**42.0**

Certificate Curricula

We offer stackable certificate programs to meet the needs of a diverse student population. Start your studies with foundational certificate programs in Digital Art or Visual Design. These provide a short-term focused study in essential areas of visual design practice.

Foundational certificates can stand-alone or be combined with more advanced coursework to prepare students to enter the workforce in the emphasis areas of Digital Animation, Digital Illustration, Visual & Interactive Design, or Visual Media Production.

We partner with other design disciplines to offer the Collaborative Design Certificate.

Prospective students are encouraged to meet with a faculty advisor to discuss their goals and plan a program of study.

Visual Design Foundation Certificate

The Visual Design Foundation certificate provides essential knowledge, processes, principles and skills for visual design and production for print and interactive communications. It can serve as a stand-alone certificate, or as the basis for advanced study in graphic design, visual media production or other areas.

Learning Outcomes

Upon completion of this program, students will be able to:

- Employ an iterative process to develop design solutions.
- Apply the elements and principles of visual design.
- Select and use type effectively in design work.
- Select and use computer tools and processes.
- Evaluate design work in verbal and written critiques.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Visual Design Foundation

Course	Units
Required	
VMD 100 Orientation to Visual Media Design	1.0
VMD 101 Design Fundamentals	3.0
VMD 105 Visual Media Digital Skills	3.0
VMD 120 Graphic Design I	3.0
VMD 130 Typography I	3.0
VMD 140 Web Production I	3.0
VMD 150 Illustrator I	3.0
VMD 152 InDesign I	3.0
VMD 154 Photoshop I	3.0
Total:	**25.0**

Visual Media Production Certificate

The Visual Media Production certificate builds on the Visual Design Foundation Certificate for students interested in visual media production for screen and print communications. Production designers are proficient with industry-standard software tools and techniques, and have a working understanding of design processes, layout, type, and color. The program prepares students to enter the workforce in a range of production jobs for interactive and print work. Students will refine their skills in Emerge Studio, our on-campus design studio practicum that provides quality communications pieces to the campus community. They also have the option of supervised work-experience in a local firm. The certificate requires key courses, but allows the student to customize the program to meet their unique goals through electives.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply appropriate design and typographic principles to create, edit, and troubleshoot files for a variety of media.
- Demonstrate proficiency with current tools, materials and processes for a range of screen and print projects.
- Analyze and discuss the merits of visual communication work, using relevant concepts and terminology.
- Produce visual communication work independently and as a member of a collaborative team
- Employ professional design/production studio management practices.
- Develop and maintain a professional portfolio of digital media work.

The certificate requires successful completion of the Visual Design Foundation Certificate or demonstration of equivalent knowledge and skills.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Visual Media Production

Course	Units
Required	
VMD 131 Typography II	3.0
VMD 141 Web Production II	3.0
VMD 151 Illustrator II	3.0
VMD 153 InDesign II	3.0
VMD 155 Photoshop II	3.0
VMD 190 Portfolio Preparation	3.0
VMD 200A Design Studio Practicum I	3.0
Select 12 units from the following	
VMD 111 Print Processes for Designers	3.0
VMD 127 User Experience	3.0
VMD 194A Internship/Work Experience 1	1.0 3.0
VMD 200B Design Studio Practicum II	3.0
BCST 146A Video Motion Graphics	4.0
CNIT 133 JavaScript, jQuery, AJAX	3.0
CNIT 133M Mobile Web w/HTML, CSS & JS	3.0
CS 230W WordPress and Drupal CMS Development	3.0
Total:	**33.0**

Collaborative Design Certificate*

The certificate program in Collaborative Design provides students with a strong foundation in multidisciplinary approaches to design and collaboration.

*See Maker Studies section of the catalog.

Digital Animation Certificate

The Digital Animation certificate builds on the Digital Art Foundation Certificate for students interested in Digital Animation. It combines the study of animation, art, graphics and problem solving using the tools and techniques for digital animation. This course of study prepares students for entry-level positions in digital animation. This certificate requires successful completion of the Digital Art Foundation Certificate or demonstration of equivalent knowledge and skills.

Learning Outcomes

Upon completion of this program, students will be able to:

- Define and apply principles of animation in creative work.
- Create, edit, and troubleshoot animated project files using industry-standard tools and software.
- Analyze and critique creative work in verbal and written form.
- Employ professional design and production studio practices.
- Manage a portfolio of animation work.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Digital Animation

Course	Units
Required	
VMD 162A 2D Animation I	3.0
VMD 162B 2D Animation II	3.0
VMD 166 Storytelling and Storyboarding	3.0
VMD 190 Portfolio Preparation	3.0
VMD 194A Internship/Work Experience 1	1.0 3.0
Choose one of the following	
ART 132A Beginning Figure Drawing	3.0
ART 130B Intermediate Drawing	3.0
Choose one of the following	
ART 136A Introduction to Illustration	3.0
VMD 168 Visual Development for Animation	3.0
VMD 170 Digital Illustration I	3.0
Total:	**19.0 – 21.0**

Digital Art Foundation Certificate

The Digital Art Foundation certificate provides essential knowledge and skills for digital artists. It can serve as a stand-alone certificate, or as the basis for continued study in digital illustration, animation, gaming or other areas.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply an iterative design process to creative projects.
- Employ the elements and principles of visual design in creative work.
- Employ drawing techniques in various areas of design practice.
- Analyze and apply color in creative work.
- Use industry-standard digital media software to create and edit files.
- Critique, verbally and in writing, visual media design work.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Digital Art Foundation

Course	Units
Required	
VMD 100 Orientation to Visual Media Design	1.0
VMD 105 Visual Media Digital Skills	3.0
VMD 150 Illustrator I	3.0
VMD 154 Photoshop I	3.0
VMD 112 Design Drawing Techniques	1.5
ART 130A Basic Drawing	3.0
Choose one of the following	
VMD 101 Design Fundamentals	3.0
ART 125A Basic Design: 2-D Foundations	3.0
Choose one of the following	
VMD 118/DSGN 150 Color in Design	3.0
ART 126 Color	3.0
Total:	**20.5**

Digital Illustration Certificate

The Digital Illustration certificate builds on the Digital Art Foundation Certificate for students interested in digital illustration for a variety of applications. The Digital Illustration Certificate Program combines the study of illustration, art and design with digital tools and techniques to create communicative imagery that is disseminated through all forms of visual media. This certificate prepares students for freelance illustration positions in print and

interactive media publishing, web and mobile design, advertising, animation, and gaming.

Learning Outcomes

Upon completion of this program, students will be able to:

- Use an iterative process including research, sketching, development and refinement to create original illustrations
- Produce original illustrative work using appropriate software
- Critique illustration work in verbal and written form
- Prepare a portfolio of illustration work

This certificate requires successful completion of the Digital Art Foundation Certificate or demonstration of equivalent knowledge and skills.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Digital Illustration

Course	Units
Required	
VMD 120 Graphic Design I	3.0
VMD 151 Illustrator II	3.0
VMD 155 Photoshop II	3.0
VMD 170 Digital Illustration I	3.0
VMD 172 Digital Illustration II	3.0
ART 132A Beginning Figure Drawing	3.0
VMD 190 Portfolio Preparation	3.0
Choose one of the following	
VMD 168 Visual Development for Animation	3.0
ART 136A Introduction to Illustration	3.0
Choose one of the following	
VMD 200A Design Studio Practicum I	3.0
VMD 112 Design Drawing Techniques	1.5
ART 130B Intermediate Drawing	3.0
ART 132B Intermediate Figure Drawing	3.0
Total:	**25.5 – 27.0**

Entrepreneurship in Visual Media Design Certificate

This certificate program is designed to prepare Visual Media Design students to engage in the world of entrepreneurship. The program's interdisciplinary approach to entrepreneurship equips students with relevant tools in exploring various pathways to entrepreneurship such as full-time business ownership, sub-contracting (freelancing), consulting, corporate intrapreneurship or mission-driven social entrepreneurship.

This interdisciplinary certificate provides basic knowledge, processes, principles and skills for visual design and production for print and interactive communications.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply an entrepreneurial mindset that breeds creativity and innovation in the field of visual media design.
- Use terms and concepts related to functional areas of entrepreneurship necessary for startups.
- Analyze the marketing environment to identify entrepreneurial opportunities and areas for growth and development.
- Develop an agile and lean business plan for startup project/enterprise that is ready for pitching.
- Compare different entrepreneurship pathways in relation to a project or business idea.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Entrepreneurship in Visual Media Design

Course	Units
Required	
DSGN 105 Design Thinking	1.5
ENTR 101 Introduction to Entrepreneurship	3.0
ENTR 102 Applied Design Thinking for Entrepreneurship	1.5
MRKT 140 Introduction to Marketing	3.0
VMD 105 Visual Media Digital Skills	3.0
and DSGN 101 Design Fundamentals	3.0
or PHOT 100 Design Fundamentals	3.0
or VMD 101 Design Fundamentals	3.0
Choose at least 6 units from the following	
VMD 120 Graphic Design I	3.0
VMD 140 Web Production I	3.0
VMD 150 Illustrator I	3.0
VMD 154 Photoshop I	3.0
VMD 192 Professional Practice	1.0
Total:	**21.0**

Visual & Interactive Design Certificate

The Visual & Interactive Design certificate builds on the Visual Design Foundation Certificate for students interested in working as visual/interactive designers for communications. It provides advanced study and application of design thinking to a broad range of communications projects (web, mobile and print). Students will refine their skills in Emerge Studio, our on-campus design studio practicum. The CCSF AIGA Student Group provides additional educational, networking and outreach opportunities within the professional design community. The certificate requires key courses, but allows the student to customize the program to meet their personal goals through electives.

Learning Outcomes

Upon completion of this program, students will be able to:

- Employ and document a structured design process to develop design solutions, working both individually and collaboratively.
- Combine appropriate aesthetic form and content to create effective design solutions.
- Select appropriate tools, materials and processes for a range of interactive and print projects.
- Critically analyze and discuss the merits of design work, using relevant concepts and terminology.
- Employ professional design/production studio practices, such as project management, record keeping, asset management, file naming and archiving.
- Develop and maintain a professional portfolio of work.

This certificate requires successful completion of the Visual Design Foundation Certificate or demonstration of equivalent knowledge and skills. All courses must be completed with a grade of "C" or higher.

The minimum time for completion of this certificate is 3 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Courses Required for the Certificate of Achievement in Visual & Interactive Design

Course	Units
Required	
VMD 110 History of Graphic Design	3.0
VMD 118/DSGN 150 Color in Design	3.0
VMD 122 Graphic Design II	3.0
VMD 127 User Experience	3.0
VMD 131 Typography II	3.0
VMD 190 Portfolio Preparation	3.0
Capstone Course	
VMD 200A Design Studio Practicum I	3.0
Select 2 courses from the following	
VMD 124A Information Design	2.0
VMD 124B Package Design	2.0
VMD 124C User Interface Design	2.0
Choose 6 units from the following	
VMD 111 Print Processes for Designers	3.0
VMD 112 Design Drawing Techniques	1.5
VMD 114A Letterpress Printing I	2.0
VMD 116A Bookbinding & Book Arts I	2.0
VMD 134 Calligraphy	1.0
VMD 135 Hand Lettering	1.0
VMD 141 Web Production II	3.0
VMD 151 Illustrator II	3.0
VMD 153 InDesign II	3.0
VMD 155 Photoshop II	3.0
VMD 192 Professional Practice	1.0
VMD 194A Internship/Work Experience 1	1.0 – 3.0
VMD 200B Design Studio Practicum II	3.0
Total:	**31.0**

Announcement of Courses

Visual Media Design

Credit, Degree Applicable Courses:

VMD 100. Orientation to Visual Media Design (1)
Lec-18 P/NP available
This course offers an overview of visual communication fields and the programs of study in the Visual Media Design Department. The class introduces students to professional practice in fields such as graphic design, illustration, imaging, publication design and web front end development. Students will identify potential career options, explore the necessary skills to succeed in these fields, and outline a future program of study. CSU

VMD 101. Design Fundamentals (3)
Lec-35, Lab-70, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Foundational design course, covering the theories, processes, vocabulary, and techniques common to visual design disciplines. Students will develop and apply their knowledge through analysis, critique and individual and collaborative exercises and projects. UC/CSU
VMD 101 = DSGN 101 = PHOT 100

VMD 105. Visual Media Digital Skills (3)
Lec-35, Lab-70 P/NP available
A foundational hands-on Mac computer class for all Visual Media Design students. Topics of instruction will include computer hardware and OS software, networks, type and text formatting, raster and vector graphics, time-based media, layout for print and web, and best practices. Topics will be covered through lecture and practical exercises. CSU
Formerly GRPH 25

VMD 110. History of Graphic Design (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A study of the development of visual communication in art, graphic design, illustration and popular culture from the prehistory to the present. The influence of political, social technological and commercial forces will be discussed and analyzed, with an emphasis on the use and interpretation of imagery, symbols, and type in design. UC/CSU
Formerly GRPH 110
Offered Fall semesters

VMD 111. Print Processes for Designers (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
A practical course to familiarize design students with processes and workflows involved in producing digital and offset printed materials. Students complete in-class exercises for the stages of print production - prepress, press, and finishing - using digital and traditional equipment. CSU
Formerly GRPH 27
Offered on Occasion

VMD 112. Design Drawing Techniques (1.5)
Lec-17.5, Lab-35 P/NP available
Recommended Prep: (DSGN 101 or VMD 101 or PHOT 100) and (Readiness for college-level English or ESL 188)
Quick sketching methods for ideation and visual problem solving for designers, animators, illustrators and makers. Terminology, techniques and conventions of rapid visualization are covered, with hands-on practice with line, shape, form, perspective, lighting, shade and shadow. UC/CSU
VMD 112=DSGN 110
Offered Spring semesters

VMD 114A. Letterpress Printing I (2)
Lec-35, Lab-17.5, field trips P/NP available
The art and craft of letterpress printing, hand set type and use of proofing presses. Emphasis is placed on skills development in hand set type, layout, proofreading, makeup, shop safety and press operations. CSU
Formerly GRPH 92A
Offered on Occasion

VMD 114B. Letterpress Printing II (2)
Lec-35, Lab-17.5, field trips P/NP available
Prereq: 114A
Continued study of the art and craft of letterpress printing using the platen jobbing press. Further development of skills in the letterpress

printing processes, polymer plate production and usage, stock selection and calculation, and presswork. CSU
Offered on Occasion

VMD 116A. Bookbinding & Book Arts I (2)
Lec-35, Lab-17.5, field trips P/NP available
An introduction to the various practical methods of contemporary book design and production within the historical development of book structures. CSU
Formerly GRPH 153
Offered on Occasion

VMD 116B. Bookbinding & Book Arts II (2)
Lec-35, Lab-17.5, field trips P/NP available
Prereq: VMD 116A
Intermediate study of the various practical methods of contemporary book design and production, including codex structures, tunnel, and accordion books, using both adhesive and sewn binding techniques. CSU
Offered on Occasion

VMD 116C. Bookbinding & Book Arts III (2)
Lec-35, Lab-17.5, field trips P/NP available
Prereq: VMD 116B
Advanced study of contemporary book design and production including pop-ups and box structures using both traditional and non-traditional materials. CSU
Offered on Occasion

VMD 118. Color in D esign (3)
Lec-35, Lab-70 P/NP available
Recommended Prep: completion of or concurrent enrollment in: (DSGN 101 or VMD 101 or PHOT 100) and VMD 105
An exploration and application of the historical, cultural symbolic personal and professional uses of color through individual and collaborative projects. Topics include the properties and theory of color; creating color relationships and harmonies; and optical, psychological and spatial uses of color in various media and design disciplines. UC/CSU
VMD 118 = DSGN 150

VMD 120. Graphic Design I (3)
Lec-35, Lab-70 P/NP available
Prereq: (VMD 101 or DSGN 101 or ART 125A or PHOT 100) and VMD 105
Recommended Prep: Readiness for college-level English or ESL 188
A beginning graphic design course focusing on fundamental visual problem-solving skills for print and screen. Principles of visual communication, iterative design process, introduction to typography, page layout, grids, identity, and branding. UC/CSU
Formerly GRPH 35

VMD 122. Graphic Design II (3)
Lec-35, Lab-70 P/NP available
Prereq: VMD 120 and VMD 140 and VMD 152
Continued study of visual communication design, covering both interactive (web/mobile) and print projects. Topics of study include research, design processes and deliverables for a range of interactive and print projects. UC/CSU
Offered Fall semesters

VMD 124A. Information Design (2)
Lec-26.5, Lab-26.5 P/NP available
Prereq: VMD 122
An exploration of the visual design and presentation of numeric or objective data through exercises and a design project. The pace and scope of the class is intended for advanced design students looking to expand their skills and design portfolio. CSU
VMD 124A, VMD 124B, and VMD 124C are not sequential and may be taken in any order.
Offered on Occasion

VMD 124B. Package Design (2)
Lec-26.5, Lab-26.5 P/NP available
Prereq: VMD 122
An exploration of package design through practical exercises and a design project. The pace and scope of the class is intended for advanced design students looking to expand their skills and design portfolio. CSU
VMD 124A, VMD 124B, and VMD 124C are not sequential and may be taken in any order.
Offered Spring semesters

VMD 124C. User Interface Design (2)
Lec-26.5, Lab-26.5 P/NP available
Prereq: VMD 122 and VMD 127
The exploration of user interface design through exercises and projects. The pace and scope of the class is intended for advanced students looking to expand their skills and portfolio. CSU
VMD 124A, VMD 124B, and VMD 124C are not sequential and may be taken in any order.
Offered Spring semesters

VMD 127. User Experience (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: VMD 140
This course focuses on industry-standard User Experience (UX) concepts and processes including user-centered design, information architecture, interaction design and prototyping used in digital product design and development. Students explore key topics through a series of hands-on exercises and projects. CSU
Formerly MMSP 136
Offered Fall semesters

VMD 130. Typography I (3)
Lec-52.5, Lab-17.5, field trips P/NP available
Prereq: (VMD 101 or ART 125A) and VMD 105
Coreq: VMD 152
Introduction to typography as key element of visual communication. Exploration of the fundamental aspects of typographic form and use. Students will develop the ability to see, select and use type in meaningful ways through exercises and assignments. CSU
Formerly GRPH 53A

VMD 131. Typography II (3)
Lec-35, Lab-70 P/NP available
Prereq: VMD 130 and VMD 152
Continued study of typography with emphasis on the development of an awareness of typographic form and structure. The role of typography in communication will be explored through practical exercises in typesetting and typographic design. CSU
Formerly GRPH 53B
Offered Fall semesters

VMD 134. Calligraphy (1)
Lec-16, Lab-8 P/NP available
Recommended Prep: VMD 130
Instruction in calligraphic tools, materials, and techniques. Study and practice of various historical and contemporary calligraphic styles and techniques, creative exercises in calligraphic layout, and discussion of contemporary lettering art and artists. CSU
Formerly GRPH 151
Offered on Occasion

VMD 135. Hand Lettering (1)
Lec-16, Lab-8 P/NP available
Recommended Prep: VMD 130
Instruction in hand lettering tools, materials, and techniques. Practice with various lettering styles, creative exercises in lettering design, and examination of contemporary lettering art and artists. CSU
Offered on Occasion

VMD 136. Digital Font Creation (2)
Lec-35, Lab-17.5, field trips P/NP available
Prereq: VMD 105
Recommended Prep: VMD 130
Hands-on experience in creating digital fonts. Practice in all aspects of the process, from concept to execution. Discussion of the standards and techniques of type design, and of the current state of the type design profession. CSU
Formerly GRPH 152
Offered on occasion

VMD 140. Web Production I (3)
Lec-35, Lab-70 P/NP available
Prereq: VMD 105
This course will provide students with an overview of web site planning, development and production through a hands-on approach. Topics include web pre-production, design and production techniques. Assignments will focus on pre-production planning and production of web sites. CSU

VMD 141. Web Production II (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: VMD 140; Completion of or concurrent enrollment in: VMD 120
This is a hands-on intermediate course covering responsive web design processes and production. Students will learn the requirements of responsive design and how to plan and create responsive assets and pages. CSU
Formerly MMSP 135A
Offered Fall semesters

VMD 150. Illustrator I (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: VMD 105
An introductory course in Adobe Illustrator, covering concepts of vector-based image creation. Students will reproduce existing images to learn the various tools available within the application. Document construction and accuracy with vector tools are emphasized. CSU

VMD 151. Illustrator II (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: VMD 150
Recommended Prep: VMD 120
Continued study and use of Adobe Illustrator for print and screen with emphasis on advanced features and creative projects. CSU
Offered Spring semesters

VMD 152. InDesign I (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: VMD 105
An introduction to Adobe InDesign for page layout and design. Topics include the interface, typesetting, styles, master pages, creating objects, importing graphics, layers, transparency, preflight and packaging. Emphasis on best practices. CSU
Formerly GRPH 101A

VMD 153. InDesign II (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: VMD 152
Recommended Prep: VMD 120; VMD 130
Continued study and use of Adobe InDesign for print and screen with emphasis on advanced features and design projects. Introduction to tables, books, and interactive documents. CSU
Formerly GRPH 101B
Offered Fall semesters

VMD 154. Photoshop I (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: VMD 105
An introduction to Adobe Photoshop for digital image editing. Topics include interface, layers, painting, compositing, color correction, retouching, asset optimization and prototyping. Emphasis on best practices. CSU
Formerly GRPH 98A

VMD 155. Photoshop II (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: VMD 154
Recommended Prep: VMD 120, 130 and 140
Continued study and use of Adobe Photoshop with an emphasis on advanced features. This course focuses on complex document construction, smart objects, masking, compositing, color correction, retouching, and screen workflows. CSU
Formerly GRPH 98B
Offered Spring semesters

VMD 162A. 2D Animation I (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: VMD 105 and (VMD 101 or DSGN 101 or PHOT 100 or ART 125A)
Recommended Prep: ART 130A
An overview of the techniques and principles of 2D animation as well as the specific tools used and roles found in the animation industry. CSU
Formerly VMD 162.
Offered Fall semesters

VMD 162B. 2D Animation II (3)
Lec-35, Lab-70, field trips P/NP available
Prereq: VMD 162A
An advanced course in the techniques and principles of 2D animation using digital tools, including emphasis on advanced visual effects and developing original visual narratives. CSU
Offered Fall semesters

VMD 166. Storytelling and Storyboarding (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: VMD 101 or DSGN 101 or PHOT 100
Recommended Prep: ART 130A
Referencing and using traditional storytelling methods, the student will explore multiple ways to generate and script content for digital

animation projects. Emphasis on development of skills and techniques of storyboarding. CSU
Offered on occasion

VMD 168. Visual Development for Animation (3)
Lec-52.5, Lab-17.5 P/NP available
Prereq: ART 130A; VMD 105
Recommended Prep: ART 132A or ART 139; VMD 112 or ARCH 20
An overview of techniques of visual development for animation. Students will be exposed to developmental stages including character development, layout design, props, concept art, and story boarding. CSU
Offered on Occasion

VMD 170. Digital Illustration I (3)
Lec-35, Lab-70 P/NP available
Prereq: VMD 105 and ART 130A
This course covers techniques in Adobe Photoshop and Adobe Illustrator for illustrators. While gaining technical knowledge, students will also begin to explore stylistic options and build a body of work. Sketching and other techniques for developing concepts are also covered. UC/CSU
Offered Spring semesters

VMD 172. Digital Illustration II (3)
Lec-35, Lab-70 P/NP available
Prereq: VMD 170
An advanced course in digital illustration focusing on the development of conceptual and narrative skills as they apply to a range of illustration projects. CSU
Formerly GRPH 110B
Offered Spring semesters

VMD 190. Portfolio Preparation (3)
Lec-52.5, field trips P/NP available
Prereq: VMD 105 and (VMD 101 or ART 125A or DSGN 101 or PHOT 100)
Recommended Prep: VMD 122; VMD 152
Portfolio development for visual media design students. The course will cover design strategies, content editing and sequencing, format options for print and interactive media, and portfolio presentation. Students will design and produce an online portfolio, sequenced portfolio, marketing materials and résume. A group of at least 10 high-quality pieces as determined by the instructor for portfolio development are strongly recommended for success in this course. CSU
Formerly GRPH 149. VMD 190 is intended for advanced design students preparing to enter the field or transfer to a four-year program. Third semester standing recommended.
Offered Spring semesters

VMD 191. Social Media for Professionals (1)
Lec-17.5, Lab-17.5 P/NP available
Prereq: VMD 105 or BCST 119
Recommended Prep: VMD 140, CNIT 129, BCST 135 and BCST 136
This course teaches students how to use social media tools such as Facebook, Twitter, Pinterest, LinkedIn and YouTube to develop, integrate and leverage social networks. Students will learn how to create personal and professional brands and critique current social media practices. CSU
Offered on Occasion

VMD 192. Professional Practice (1)
Lec-17.5 P/NP available
Prereq: Approval of the Visual Media Design Department
This is an advanced course focusing on visual media design professional practices such as pricing methods, taxes, copyright, contracts, freelancing, running a small design business, and working with subcontractors. CSU
Offered on Occasion

VMD 194A. Internship/Work Experience 1 (1-3)
Work-60-225 P/NP available
Prereq: Approval of Visual Media Design Department
Application of visual media design skills and development of proficiency in a supervised work environment. One unit of credit is earned for 60 hours of unpaid or 75 hours of paid work. CSU

VMD 200A. Design Studio Practicum I (3)
Lec-17.5, Lab-122.5 P/NP available
Prereq: VMD 120 and VMD 130 and VMD 140 and VMD 150 and VMD 152 and VMD 154
Emerge Studio, an in-house visual media design studio, provides an environment for students to gain real-world skills creating and producing projects for actual clients. Students will gain practice with client communications, iterative design process, technical problem-solving, and project management for individual and collaborative design projects including websites, posters, marks, brochures, and other communications projects. CSU

VMD 200B. Design Studio Practicum II (3)
Lec-17.5, Lab-122.5 P/NP available
Prereq: VMD 200A
Continued experience in Emerge Studio, the VMD Department's in-house visual media design studio. Students take on greater responsibilities in project management, client relations, critiques, and overall project planning and implementation. Students will also encounter larger and more complex communications projects and work with greater autonomy and independence. CSU

Women's and Gender Studies

Office: Cloud 402C
Phone Number: (415) 452-5825
Web Site: *www.ccsf.edu/women*
*Formerly: Women's Studies

Announcement of Curricula

Social Justice Studies: Gender Studies Major (AA-T)

Associate in Arts in Social Justice Studies: Gender Studies for Transfer offers students breadth of knowledge through a set of introductory courses addressing gender, sexuality, race, ethnicity, and class, and depth of knowledge through courses that focus on women's experiences from an intersectional feminist perspective. We aim to understand and dismantle not only sexism, but also racism, homophobia/heterosexism, classism, ableism, ageism, transphobia, and other forms of institutionalized oppression. The AA-T prepares students who wish to transfer and pursue a baccalaureate degree in a field related to Social Justice, particularly at the California State University campuses. Related fields include Women and Gender Studies, Feminist Studies, Sexuality Studies, Ethnic Studies, Critical Race Studies, or any of a

number of other CSU Majors included in this "area of emphasis." It is advised that potential majors meet with an affiliated counselor or department chair to discuss educational goals, course options, and transfer issues.

Learning Outcomes

Upon completion of this program, students will be able to:

- Examine the process of gender socialization.
- Analyze gender-based institutionalized oppressions in an intersectional framework.
- Analyze women's experiences, gender politics, and/or feminism across cultures.
- Examine, evaluate, and contextualize political, historical, and artistic achievements through the lens of gender.

Students who wish to earn the Associate in Arts in Social Justice Studies: Gender Studies for Transfer (AA-T) degree must complete 60 CSU-transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE Curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of "C" (or "P") or better. Courses that meet the major requirements may also used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AA-T in Social Justice Studies: Gender Studies

Course . . . . . Units

Required

WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified 3.0
IDST 37 Introduction to Ethnic Studies 3.0
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3.0
or LBCS 70A Who Built America? 1492-1877 . . . . . 3.0

Choose 3 courses from at least 2 areas

Area 1: History or Government

HIST 12A United States Women's History: Pre-colonial Through 1880s 3.0
HIST 12B United States Women's History: 1890-Present 3.0

Area 2: Arts & Humanities

WGST 10 Women and Film 3.0
AFAM 60 African American Women in the U.S. 3.0
ART 108 Women Through Art History 3.0
ASAM 35 Asian American Women 3.0
ENGL 57 Survey of Women's Literature 3.0
ENGL 58 Contemporary Women's Writing 3.0
HIST 12A United States Women's History: Pre-colonial Through 1880s 3.0
HIST 12B United States Women's History: 1890-Present 3.0
HUM 25 Women in the Arts 3.0
IDST 31 Women and Gender in the Middle East 3.0

Area 3: Social Science

WGST 35 Introduction to Masculinity Studies 3.0
WGST 54 The Politics of Sexual Violence 3.0
AFAM 60 African American Women in the U.S. 3.0
ANTH 20 Queer Anthropology 3.0
ANTH 25 Culture, Gender and Sexuality 3.0
ASAM 35 Asian American Women 3.0
ECON 25 Women in the Economy 3.0
HIST 12A United States Women's History: Pre-colonial Through 1880s 3.0
HIST 12B United States Women's History: 1890-Present 3.0
HLTH 221 Health and Social Justice 3.0
IDST 31 Women and Gender in the Middle East 3.0
LALS 10 Latinas in the U.S./VOCES 3.0
LGBT 21 Intimacy and Relationships between Women and Nonbinary People 3.0
POLS 19 Gender, Politics, and Policy 3.0
PSYC 25 Psychology of Gender 3.0
SOC 25 Sex and Gender in the U.S. 3.0

Any course not selected in the Required block.

Recommended

Students are encouraged to fulfill their general education requirements for written composition and oral communication with ENGL 1A and CMST 1A with a Women's and Gender Studies focus.

Total: 18.0

Women's and Gender Studies Major (AA)

The Associate of Arts in Women's and Gender Studies includes courses that fulfill graduation requirements for CCSF and transferable requirements to many CSU, UC, and private universities. Through departmental core courses and interdepartmental courses, students focus on women's experiences and gender politics taught from an intersectional feminist perspective.

Learning Outcomes

Upon completion of this program, students will be able to:

- Examine the process of gender socialization.
- Analyze gender-based institutionalized oppressions in an intersectional framework.
- Analyze women's experiences, gender politics, and/or feminism across cultures.
- Evaluate and contextualize political, historical, and artistic achievements through the lens of gender.
- Evaluate and apply strategies for improving communication and healthy behaviors in their own lives.

Note that the program description below outlines only how students fulfill the major requirement for an associate degree. The CCSF associate degree has several other components, including general education requirements. Please meet with a counselor and read the Associate Degree Requirements chapter of the CCSF Catalog for complete information. Generally, minimum time for completion of an AA or AS degree is four semesters, depending on student preparation and the number of units completed per semester.

Courses Required for the Major in Women's and Gender Studies

Course . . . . . Units

Required

WGST 25 Introduction to Women's and Gender Studies: Feminism Demystified 3.0

Choose three units from the following

ANTH 20 Queer Anthropology 3.0
ANTH 25 Culture, Gender and Sexuality 3.0
PSYC 25 Psychology of Gender 3.0
SOC 25 Sex and Gender in the U.S. 3.0

Choose three units from the following

ECON 25 Women in the Economy 3.0
HIST 12A United States Women's History: Pre-colonial Through 1880s. 3.0
HIST 12B United States Women's History: 1890-Present 3.0
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3.0
PE 28 Women in Sports 3.0
POLS 19 Gender, Politics, and Policy 3.0

Choose six units from the following

WGST 10 Women and Film 3.0
WGST 20 Her/His/Ourstories 3.0
ART 108 Women Through Art History 3.0
ENGL 57 Survey of Women's Literature 3.0
ENGL 58 Contemporary Women's Writing 3.0
HUM 25 Women in the Arts 3.0

Choose three units from the following

WGST 35 Introduction to Masculinity Studies 3.0
AFAM 60 African American Women in the U.S. 3.0
ASAM 35 Asian American Women 3.0
IDST 31 Women and Gender in the Middle East 3.0
IDST 80A Diversity and Social Justice: Racism 0.5
IDST 80C Diversity and Social Justice: Sexism 0.5
IDST 80D Diversity and Social Justice: Heterosexism. 0.5
IDST 80E Diversity and Social Justice: Ableism 0.5
IDST 80F Diversity and Social Justice: Class and Classism 0.5
IDST 80G Diversity and Social Justice: Transphobia. 0.5
IDST 81A Diversity: Ageism and Adultism (Age-based Oppression) 1.0
IDST 81B Diversity and Social Justice: Anti-Semitism/Anti-Arabism. 1.0
LALS 10 Latinas in the U.S./VOCES 3.0
LGBT 5 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3.0
LGBT 21 Intimacy and Relationships between Women and Nonbinary People 3.0

Choose three units from the following

WGST 54 The Politics of Sexual Violence 3.0
WGST 55 Ending Sexual Violence: Peer Education. 3.0
HLTH 25 Women's Health 3.0
PE 28 Women in Sports 3.0
PSYC 14 Psychology of Shyness 1.0
PSYC 15 Assertive Behavior 1.0
PSYC 17 Psychology of Eating, Food, and Weight 1.0

Recommended

Students are encouraged to fulfill their general education requirements for Area A and Area B with CMST 1A and ENGL 1A with a Women's and Gender Studies focus.

Total: 21.0

Sexual Health Educator Certificate

The curriculum for the Sexual Health Educator Certificate will train students as paraprofessionals in safe and healthy sexuality including violence prevention and intervention, HIV/STI prevention, and the promotion of mature intimate relationships.

The integrated program offers students an opportunity to identify various markers of sexual health, which will enable them to promote healthy and safer sexual relationships in their client populations. They will be able to teach others to negotiate sexual situations with more confidence, knowing their limits, recognizing danger zones, assessing risk factors, and respecting their own and their partners' needs.

Learning Outcomes

Upon completion of this program, students will be able to:

- Identify the biological, psychological, and social aspects of human sexuality, including issues pertaining to reproductive rights and health.
- Apply client-centered approaches to providing sexual wellness information, systems navigation and relevant referrals to diverse communities.
- Utilize an intersectional feminist lens to analyze how systems of oppression perpetuate abuses of power in interpersonal relationships and identify strategies for prevention and healing from sexual violence.
- Use peer education techniques to teach about healthy, non-violent relationships and to raise awareness of how personal experiences are impacted by social and political realities.

Credit toward Graduation. Credit earned to obtain the Certificate of Achievement satisfies the G1 and H2 graduation requirements, and course work is transferable to the California State University.

Credit toward other CCSF Certificates. Several of the required and elective courses of the Certificate satisfy required or elective courses of the Community Health Worker, Infectious Disease Prevention in Priority Populations, and Trauma Prevention and Recovery Certificates.

The minimum time for completion of this certificate is 1 semester. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Sexual Health Educator

Course . . . . . Units

Required

WGST 54 The Politics of Sexual Violence 3.0
WGST 55 Ending Sexual Violence: Peer Education 3.0
IDST 17 Human Sexuality 3.0
HLTH 67 HIV and Hepatitis Navigation Skills. 3.0
or HLTH 54 Introduction to Public Health 3.0

Choose 4 units from the following, unless already taken above

ANTH 20 Queer Anthropology 3.0
ANTH 25 Culture, Gender and Sexuality 3.0
HLTH 38 Trauma, Resilience and Recovery 3.0
HLTH 48 Violence as a Public Health Issue 3.0
HLTH 54 Introduction to Public Health 3.0
HLTH 64 Health Education Training: Skills and Practice. 3.0

HLTH 67 HIV and Hepatitis Navigation Skills 3.0
HLTH 95 Transgender Health: Working with Clients and Communities. 1.0
IDST 80A Diversity and Social Justice: Racism 0.5
IDST 81B Diversity and Social Justice: Anti-Semitism/Anti-Arabism. 1.0
IDST 80C Diversity and Social Justice: Sexism. 0.5
IDST 80D Diversity and Social Justice: Heterosexism. 0.5
IDST 80E Diversity and Social Justice: Ableism 0.5
IDST 80F Diversity and Social Justice: Class and Classism 0.5
IDST 80G Diversity and Social Justice: Transphobia. 0.5
LGBT 21 Intimacy and Relationships between Women and Nonbinary People. 3.0
LGBT 24 Male Intimacy and Relationships. 3.0
PSYC 9 Psychology of Stress 3.0
PSYC 14 Psychology of Shyness. 1.0
PSYC 15 Assertive Behavior 1.0
PSYC 17 Psychology of Eating, Food, and Weight 1.0
PSYC 25 Psychology of Gender. 3.0
SOC 25 Sex and Gender in the U.S. 3.0
SOC 35 Sex, Marriage, and Family Relationships. 3.0
WGST 35 Introduction to Masculinity Studies. 3.0
Total: 16.0

Announcement of Courses

General Information

Women's and Gender Studies courses offer students an understanding of gender socialization and women's experiences across cultures; knowledge of women's political, historical, and artistic achievements; and strategies for improving communication and promoting healthy behaviors in our personal, social, and work lives.

Credit, Degree Applicable Courses:

WGST 10. Women and Film (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Feminist film studies. Uses an intersectional lens to analyze women's roles in cinema as filmmakers and actors from its origins to the present. UC/CSU
Formerly WOMN 10
Offered Summer and Fall semesters

WGST 20. Her/His/Ourstories (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
The course offers strategies for researching individual and community stories to enhance life and career/job choices while emphasizing female oral storytelling traditions. Documentation skills and processes such as formatting, copyediting, layout, and working with multimedia design consultants are also covered. CSU
Formerly WOMN 20
Elective offered at the department's discretion

WGST 25. Introduction to Women's and Gender Studies: Feminism Demystified (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to the origins, purpose, subject matter, and methods of Women's and Gender Studies and to feminist perspectives on a range of social issues affecting women of diverse backgrounds. Study of the formation of gender and its intersections with race, class, sexuality, dis/ability, age, religion, and other systems of difference. UC/CSU
C-ID SJS 120
Formerly WOMN 25
Offered every semester

WGST 35. Introduction to Masculinity Studies (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary and intersectional study of masculinities within US culture and society. Special attention will be given to how masculinity is represented and constructed along axes of race, ethnicity, sexuality, gender, class, and ability, as well as possibilities for challenging hegemonic masculinity and building new masculinities. UC/CSU
Offered Fall and Spring semesters

WGST 54. The Politics of Sexual Violence (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An examination of the political, social, and psychological causes of sexual violence, its connections to other forms of violence, and strategies for addressing the social problem of sexual violence and transforming a rape culture, including prevention education and the healing function of writing. Field project required. UC/CSU
Formerly WOMN 54. Can be taken in any order with WGST 55.
Offered Fall and Spring semesters

WGST 55. Ending Sexual Violence: Peer Education (3)
Lec-52.5 P/NP available
Education and skills training in peer education to promote healthy relationships and reduce sexual violence, specifically intimate partner violence and acquaintance rape. Peer education activities include preparation of a facilitation plan, campus-wide visibility projects, presentations to CCSF classes and volunteer work in community-based organizations. Field project required. CSU
Students can take WGST 55 and WGST 54 in any order. Course was formerly WOMN 55.
Offered Fall and Spring semesters

AFAM 60. African American Women in the U.S. (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Examines and analyzes African American women in the U.S. with particular emphasis on the struggle for rights as people of African descent. Frameworks of race and ethnicity are used to gain a critical understanding of the contributions, strategies for success, and political activism of African American women from 1619 to the present. UC/CSU
Offered Fall semesters

ANTH 20. Queer Anthropology (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A sub-discipline of socio-cultural anthropology that focuses on contexts of difference in sexuality from the (presumed) norms of sexual and gender variation within social systems, practices, and ideologies. Queer anthropology utilizes intersectional studies of sex, race, ethnicity, gender, gender expression, religion, colonialism, and globalization. UC/CSU

ANTH 25. Culture, Gender and Sexuality (3)
Lec-52.5 P/NP available
This course explores how gender and sexuality are expressed in various cultures around the world. Focuses on gender in non-Western cultures such as Native American, African and Asian societies. Discusses relationship of gender to aspects of culture such as kinship, economics, politics, and religion. UC/CSU
Offered Spring semesters

ART 108. Women Through Art History (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Investigation of women's roles in European and non-European society as artists, patrons and subjects in art from pre-history to the present. Artworks are examined through formal and thematic characteristics and from a historical, social and gender-based perspective. UC/CSU
Offered Fall and Spring semesters

ASAM 35. Asian American Women (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to experiences, struggles, & contributions of Asian American women, with multi-disciplinary Ethnic Studies approach including history, humanities, sociology, political science, Women's and Gender Studies, Asian American Studies, and arts. Exploring theory, knowledge, creative expression by Asian American women, emphasizing agency. Intersectional analysis of race & racism, sexism, classism, homophobia, immigration, labor, sexualities & culture in the lives of Asian American women. UC/CSU
Elective offered at the department's discretion

ECON 25. Women in the Economy (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Women's roles in the U.S. economy, including varying experiences related to race, ethnicity, sexuality, and class. Women's occupations and earnings; unpaid household activities; experiences of women from three American cultures; related public policy. Applies and contrasts mainstream economic and political economy theories of gender inequality. UC/CSU
Offered on occasion

ENGL 57. Survey of Women's Literature (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A survey of literature written in English by women over the last four hundred years, emphasizing nineteenth and early twentieth century novels, poetry, and drama by major as well as rediscovered authors prior to 1970. UC/CSU
Offered on occasion

ENGL 58. Contemporary Women's Writing (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An exploration of contemporary women's writing: fiction, poetry, drama, creative nonfiction, and hybrid forms written in English by contemporary women from diverse social, cultural and ethnic backgrounds. UC/CSU
Formerly ENGL 58A
Offered on occasion

HIST 12A. United States Women's History: Pre-colonial Through 1880s (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An in-depth study of the experiences, roles and contributions of women in political, economic, social, and cultural development from the pre-colonial period through the 1880s. UC/CSU
HIST 12A is not preprequisite to HIST 12B.
Offered Fall semesters

HIST 12B. United States Women's History: 1890-Present (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college level English or ESL 188
An in-depth study of the experiences, roles and contributions of women in political, economic, social and cultural development from 1890 to the present. UC/CSU
HIST 12A is not a preprequisite to HIST 12B.
Offered Spring semesters

HLTH 25. Women's Health (3)
Lec-52.5, field trips P/NP available
Recommended Prep: ESL 186 or placement in ESL 188 or readiness for college-level English
Explores the social determinants and issues related to women's health on an individual and community level. Emphasis on evaluation of health resources, behavior change process, and role of risk factors and prevention. UC/CSU

HUM 25. Women in the Arts (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A cross-cultural survey of women's achievements in the visual, literary, and performing arts made through examination of current and historical examples. Student understanding is informed by original, biographical, and critical texts and enhanced by cultural theories of aesthetics, sex, gender, and race. UC/CSU
Offered Fall semesters

IDST 17. Human Sexuality (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
A human sexuality course that integrates content and methodology from the disciplines of biology, ethics, health education, history, jurisprudence, LGBTQI+. women and gender studies, psychology,

and social justice. Covers the anatomical, physiological and psychological stages of development across the life span, including the role of gender, patterns of sexual arousal and response, and the paraphilias. UC/CSU
C-ID PSY 130
Offered Spring and Fall semesters

IDST 31. Women and Gender in the Middle East (3)
Lec-52.5, field trips P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
An interdisciplinary examination of differences/similarities in women's lives in the Muslim/Arab world, including the diaspora, and among minorities in the Middle East/Southwest Asia and North Africa (SWANA). Analysis includes diversity, colonization, nationalism, religion, gender, sexuality, family, law, literature, music, art and film. UC/CSU
Offered on occasion

IDST 80A. Diversity and Social Justice: Racism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of race-based oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about racism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80C. Diversity and Social Justice: Sexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness raising analysis and evaluation of sexism on individual, institutional, and cultural levels in the United States. Expanding one's knowledge about sexism, increasing personal awareness of one's own sexism and assumptions, and the application of this knowledge and awareness for individual and social change are emphasized. CSU
Offered Fall semesters

IDST 80D. Diversity and Social Justice: Heterosexism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of homophobia and heterosexism (discrimination based on perceived or real sexual orientation and identity) oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about heterosexism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80E. Diversity and Social Justice: Ableism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of ableism (disability-based oppression) on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about ableism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 80F. Diversity and Social Justice: Class and Classism (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of class oppression and classism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about class, class oppression and classism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

IDST 80G. Diversity and Social Justice: Transphobia (.5)
Lec-9 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of transphobia and gender oppression on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about transphobia and gender diversity, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Fall semesters

IDST 81A. Diversity: Ageism and Adultism (Age-based Oppression) (1)
Lec-18 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of age-based bias, discrimination and oppression (adultism and ageism) on individual, institutional, and cultural levels in the U.S. Expanding knowledge about adultism and ageism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change are emphasized. CSU
Offered Spring semesters

IDST 81B. Diversity and Social Justice: Anti-Semitism/Anti-Arabism (1)
Lec-18 P/NP available
Recommended Prep: Readiness for college-level English or ESL 186
A consciousness-raising analysis and evaluation of anti-Semitism and anti-Arabism on individual, institutional, and cultural levels in the U.S. Emphasis on expanding knowledge about anti-Semitism and anti-Arabism, increasing awareness of one's own socialization and assumptions, and the application of this knowledge and awareness for individual and social change. CSU
Offered Spring semesters

IDST 300. Social Justice Work Experience (1-6)
Work-60-450 P/NP only
Prereq: Approval of the Interdisciplinary Studies Department
Repeat: Repeated up to 16.00 Units
General work experience course designed for students considering careers in social justice, public service and the nonprofit sector.

Through supervised internships at justice-oriented and community-based organizations, students can increase their skills working with the public sector and their knowledge of career options and pathways, including the skills necessary for work in this sector. One unit of credit is earned for each 60 hours of unpaid work or 75 hours of paid work. CSU
Offered Fall and Spring semesters

LALS 10. Latinas in the U.S./VOCES (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The course will examine the lives and experience of Latinas living in the U.S. using Ethnic Studies methodologies. It will explore how their experiences affect self-esteem. Major social and cultural issues and themes will be discussed and analyzed using a multidisciplinary approach. UC/CSU
Offered Spring and Summer semesters

LGBT 21. Intimacy and Relationships between Women and Nonbinary People (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Utilizing a feminist lens, this course studies people who identify as women and nonbinary in intimate relationships from a variety of perspectives. Integrating the personal experiences of class members, the course examines biological, psychological, social, and cultural influences upon women's and nonbinary people's ability to develop and sustain intimate and healthy relationships. CSU
Offered Fall and Spring semesters

PE 28. Women in Sports (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
The history, social movements, physiology, psychology, and sociology of women in sports. Emphasis will be placed on exploring the changing roles in sports for women. UC/CSU

PSYC 14. Psychology of Shyness (1)
Lec-18 P/NP available
A psychological examination of shyness as a form of temperamental diversity. A comparison of shyness, social anxiety, introversion and the potential psychosocial challenges of each. Strategies for addressing challenges will be presented. CSU

PSYC 15. Assertive Behavior (1)
Lec-18 P/NP available
Examination of the development of communication patterns in a psychological and sociological context. Psychological and emotional barriers to effective communication will be explored. Application of assertiveness techniques to effect behavior change based on cognitive and behavioral theories in psychology are a major focus. Assessment and implementation of appropriate techniques in a variety of situations, including communication with family, friends, and at the workplace are also discussed. CSU

PSYC 25. Psychology of Gender (3)
Lec-52.5 P/NP available
This course is an analysis of theories and research on how behavioral, cognitive, and emotional processes are impacted by gender. It includes an intersectional critique of biological, psychological, sociocultural ideas of gender, gender continuums from cis to transgender and addresses topics such as stereotypes, relationships, violence, sexuality, work and academics from various perspectives. Included is a focus on experiences of, and responses to, oppression. UC/CSU
Offered Fall semesters

SOC 25. Sex and Gender in the U.S. (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
This course is a comprehensive introduction to the sociological study of gender and will focus on the multiple ways in which sex and gender are socially produced and sustained. Exploration of the social practices and processes that create sex and gender distinctions and contribute to inequalities. Emphasis on the social construction of sex and gender and their intersections with other social identities such as race, sexuality, and class. UC/CSU
C-ID SOCI 140
Offered Spring semesters

Noncredit Course:

WGST 2501. Self-Defense (16 hrs)
Instruction and practice in physical and psychological aspects of self-defense. Emphasis on developing strategies to emerge from threatening situations without sustaining serious physical or psychological trauma. The attainment of these skills can boost self-esteem, facilitating the pursuit of life and career goals.
Formerly WOMN 2501
Offered Fall and Spring semesters

Word Processing

For credit and noncredit courses in word processing see the Computer Applications for Business course listings of the Business Department in this section of the Catalog.

Work Experience

Office: MUB 130B
Phone Number: (415) 452-7013
Web Site: *www.ccsf.edu/workexperience*

Announcement of Courses

General Information:

City College provides a variety of structured work-based and school-based learning experiences through cooperative agreements between the student, the employer, and the instructor in several academic and career education courses. Students who fulfill the work experience agreement achieve several job objectives and earn transferable college units.

Credit, Degree Applicable Courses:

WKEX 333. General Work Experience (1-6)
Work-60-450 P/NP only
Prereq: Approval of Business Department Work Experience Coordinator required
Repeat: Repeated up to 6.00 Units
General work experience course designed for students who may not yet have selected a specific occupational goal but who are presently employed off campus. Through supervised employment, students can increase their workplace success by undertaking new or expanded responsibilities at their jobs and acquiring improved work habits and career-related skills. One unit of credit is earned for each 60 hours of unpaid work or 75 hours of paid work. CSU

WKEX 777. On-Campus Work Experience (1-6)
Work-60-450 P/NP only
Prereq: Approval of Business Department Work Experience Coordinator required
Repeat: Repeated up to 6.00 Units
General work experience course with supervised employment that involves classroom-based learning at an on-campus learning station related to the student's educational or occupational goal. The focus of the course varies according to the CCSF department in which the student works. One unit of credit is earned for each 60 hours of unpaid work or 75 hours of paid work. CSU

World Languages and Cultures

Office: Art 202
Phone Number: (415) 239-3223
Web Site: *www.ccsf.edu/worl*

Announcement of Curricula

(See specific course entries for American Sign Language, Chinese, French, German, Italian, Japanese, Russian and Spanish.)

General Information

City College offers language and culture courses in eight languages: American Sign Language, Chinese (both Cantonese and Mandarin), French, German, Italian, Japanese, Russian and Spanish. Besides being excellent intellectual training and meeting transfer requirements, language courses allow you to add an international dimension to your abilities including international business and international relations, help you communicate with the peoples of the world and understand their cultures. Students often major or minor in languages in conjunction with majors in other areas.

In world languages courses, the course numbers and letters follow in sequence. A student who has completed a course with a grade of A, B, C, or P may not re-register for the same course (unless repetition is specifically permitted), nor may he/she register for a course with a lower number or letter unless otherwise indicated.

Chinese, French, German, Japanese, and Spanish offer an advisory placement test to help students determine their level of language ability. For further information contact the World Languages and Cultures Department.

For foreign language studies abroad, contact the International Education Coordinator, 239-3778.

For short term noncredit World Languages and Cultures language classes, contact the Continuing Education Coordinator, 561-1860.

Announcement of Course

Credit, Degree Applicable Course:

WORL 100. Introduction to Intercultural Communication and Language Learning (3)
Lec-52.5 P/NP available
Recommended Prep: Readiness for college-level English or ESL 188
Introduction to language learning at CCSF. Investigation of intercultural communication and cultural competence in the context of learning languages. Acquisition of simple conversational skills in each language taught, basic cultural competency to communicate more effectively in a multicultural world. Exploration of strategies for efficient language learning. Knowledge of how the acquisition of other languages can enrich careers and lives. UC/CSU
Formerly FORL 100