OVERVIEW OF THE COLLEGE
OVERVIEW OF THE COLLEGE

Associate in Arts or Associate in Science Degree
City College of San Francisco, a two-year college, confers the degrees of Associate in Arts, Associate in Science, Associate in Arts for Transfer, and Associate in Science for Transfer on students who satisfy the course and grade requirements for graduation.

Extensive Choice of Disciplines and Courses
The College offers you an extensive choice of disciplines and courses. Additionally, students may complete the first two years of training for a profession, satisfy freshman and sophomore requirements for transfer to baccalaureate degree-granting institutions; prepare for employment at the end of two years or a shorter period of training; take evening, Saturday, and summer courses; remove educational deficiencies; or get other special preparation.

Instructional Areas Include the Following:
Program in General Education. An extensive selection of courses in the humanities, the arts, the natural and social sciences, and other fields.

Transfer Program. Courses offered to satisfy lower-division requirements to enable students to transfer to baccalaureate degree-granting institutions as juniors.

Occupational Program. Training for employment in occupations normally requiring two years or less of specialized career preparation.

Diversity Studies. Courses directed specifically to the interest and educational objectives of major segments of the San Francisco community including courses in African American, Asian American, Latin American, Lesbian, Gay, Bisexual and Transgender, and Philippine Studies.

International Education. Courses taught in other countries through Study Abroad and courses taught locally for international students, including an Intensive English Institute.

Distance Education Courses. Courses that are offered via online and hybrid instruction.

Foundation Courses. Basic courses in business, English, guidance, and mathematics.

Noncredit Courses. Mostly open-entry/open-exit courses, many emphasizing vocational education, leading to employment or job upgrading but also including courses in English as a second language, elementary-level and secondary-level skills, workforce preparation, parent education, health and safety, home economics, citizenship for immigrants, and special courses for disabled persons and older adults.

Community Service Offerings. Workshops and other short-term offerings that serve community interests and for which fees are charged because no tax support is available.

College Accreditation
City College of San Francisco is accredited by the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges, 10 Commercial Blvd., Suite 204, Novato, CA 94949, (415) 306-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. Additional information about accreditation, including the filing of complaints against member institutions, can be found at: www.accjc.org. Information related to the College’s accreditation is available at www.ccsf.edu/accreditation.

The following programs are subject to additional accreditation and certification standards:

Administration of Justice Department
ADM| 85. PC 832 Arrest & Control
Presenter number 4540
Accredited by:
California Commission on Peace Officer Standards and Training
860 Stillwater Road, Suite 100
West Sacramento, CA 95605
916-227-3909

Aircraft Maintenance Technology Program
Certified by:
The Federal Aviation Administration
US Department of Transportation
Federal Aviation Administration
800 Independence Avenue, SW
Washington, DC 20591
1-866-TELL-FAA (1-866-835-5322)

Culinary Arts and Food Service Management Programs
Accredited by:
The American Culinary Federation
Send comments in writing to:
American Culinary Federation Education Foundation
Attn: Accreditation
180 Center Place Way
St. Augustine, FL 32095
Fax: 904-940-0741

Dental Assisting Program
Accredited by:
The Commission on Dental Accreditation (CODA)
American Dental Association
211 East Chicago Avenue
Chicago, IL 60611-2678
312-440-2500
Submit comments: www.ada.org/314.aspx
Approved by:
Dental Board of California
2005 Evergreen Street, Suite 1550
Sacramento, CA 95815
877-729-7789 (Toll Free)
916-263-2300 (Direct)

Diagnostic Medical Imaging (DMI) Program
Accredited by:
The Joint Review Committee on Education in Radiologic Technology
20 N. Wacker Drive, Suite 2850
Chicago, IL 60606-3182
Phone: 312-704-5300
Fax: 312-704-5304

Drug and Alcohol Studies Certificate
Accredited by:
California Association of Alcohol and Drug Educators (CAADE)
5230 Clark Ave., Suite 3
Lakewood, CA 90712
707-722-2331
Comments or Questions: office@caade.org
EMT & Paramedic Programs
The EMT Program is approved by the State of California EMS Authority and local approving EMS agency.
The Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) under the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Profession (CoAEMSP). Program #600218
Commission on Accreditation of Allied Health Education Programs (CAAHEP)
25400 U.S. Highway 19 North Suite 158
Clearwater, FL 33763
Phone: 727-210-2350
www.caahep.org
Committee on Accreditation of Educational Programs for the Emergency Medical Services Profession (CoAEMSP)
8301 Lakeview Parkway, Suite 111-312
Rowlett TX 75088
Phone: 214-703-8445
Fax: 214-703-8992
www.coaemsp.org
Fire Science Technology Program
Accredited by:
The California State Fire Marshal’s Office of State Fire Training
PO Box 944246
Sacramento, CA 94244-2460
http://osfm.fire.ca.gov/training/accreditedacademies.php
Health Information Management Program (Associate in Science)
Accredited by:
The Commission on Accreditation for Health Informatics and Information Management (CAHIIM)
233 N. Michigan Ave, 21st Floor
Chicago, IL 60601-5800
Phone: 312-233-1100
http://www.cahiim.org
Licensed Vocational Nursing Program
Approved by:
The Board of Vocational Nursing and Psychiatric Technicians
2535 Capitol Oaks Drive, Suite 205
Sacramento, CA 95833
916-263-7800
bvnpt@dca.ca.gov
Medical Assisting Program
Accredited by:
The Commission on Accreditation of Allied Health Education Programs (CAAHEP)
25400 U.S. Highway 19 North Suite 158
Clearwater, FL 33763
Phone: 727-210-2350
Fax: 727-210-2354
Submit complaints: http://www.caahep.org/File-Complaints/
Registered Nursing Program
Approved by:
The California State Board of Registered Nursing
P.O. Box 944210
Sacramento, CA 94244-2100
http://www.rn.ca.gov/about_us/whatisbrn.shtml
Submit complaints:
Board of Registered Nursing, Attn: Complaint Intake
P.O. Box 944210
Sacramento, CA 94244-2100
Fax: 916-574-7693
Student Development
City College offers a wide variety of services which are designed to help make your educational experience successful and rewarding. The Scholarship and the Financial Aid Programs, Student Health Services, Veterans Services, Disabled Students Programs and Services, the Extended Opportunity Program and Services, the Childcare Service, the Peer Adviser Program, the Information Center, and other services are available to assist you as you work toward attaining your educational goals.
Counseling Services
As a student at City College, students receive individual counseling from a professional counselor. Instructors also advise and help students. Through its counseling programs, the College helps students choose an occupation; plan a program of study based on individual interests, abilities, and needs; develop educational plans; provide various types of educational counseling, including academic, career, transfer, and personal, and assist students with personal problems or other matters affecting their studies or college career.
Career Center
CCSF students and alumni are entitled to all the career services provided by the Career Center. Counselors will assist in making career/job choices, setting educational career goals, selecting a major, becoming job ready and seeking employment.
Career services include individual career counseling, online advising, workshops, career success courses, and job resource information. The schedule of classes and workshops, as well as other events can also be found on our website www.ccsf.edu/CareerCenters. For more questions call 239-3117.
Learning Assistance Center
The Learning Assistance Center offers a variety of programs and services designed to help you become a more efficient, independent learner and to make your educational experience at City College more successful. The Tutorial Center provides free tutoring in mathematics, sciences, business, social sciences, foreign languages, and other subjects. English instructors and tutors are available to help students in the Writing Success Project. The LAC Computer Lab offers access to the Internet and e-mail, and to educational CD, DVD, and software programs. College Success Courses are offered through the Learning Assistance Department. The Learning Assistance Center at the Mission Center offers many of these services. Online tutoring is available for some subjects.
Associated Students
Any student currently enrolled in a class at City College of San Francisco is a member of the Associated Students (AS). The AS Constitution sets up an Executive Board as a representative body for all CCSF campus and centers to facilitate communication, leadership, and advocacy. Further, the AS Executive Council appoints all student members to serve on participatory governance committees. There are active Associated Student Councils at various CCSF locations including: Chinatown/North Beach, Civic Center, Downtown, Evans, John Adams, Mission, Ocean and Southeast. Each Associated Student Council may adopt its own set of by-laws to guide local governance.
4  Overview of the College

Each spring, the Associated Students elects a student trustee to represent its interests on the San Francisco Community College Board of Trustees.

The AS Ocean Campus funds diverse resource centers and programs including: the Bookloan Program, the Multi Cultural Resource Center; Dr. Betty Shabazz Family Resource Center, Guardian Scholars, HARTS, Queer Resource Center, Women’s Resource Center, Student Health, Students Supporting Students (S3), and more than 60 clubs and campus organizations. There is a $5 optional Student Activity Fee, payable at registration, to help support these centers and programs.

For information regarding the Associated Students, please contact the Student Activities Office in the Student Union Building, Room 205, Ocean Campus.

Inter-Club Council (ICC)
Recognized and funded by the Associated Student Council - Ocean Campus, the ICC consists of elected representatives from over 60 clubs. For more information about an existing club or about starting a new club, please stop by the Student Union Room 209 and pick up a club packet.

Student Activities Office - Student Union
City College of San Francisco provides a program of student activities that encourages student leadership, participation in participatory governance, and involvement in campus life. Information is available in the Student Union Building, Room 205, Ocean Campus. The Student Union at the Ocean Campus is a place where recognized student clubs and organizations can meet, socialize, and sponsor events. It is also a place where individual students and small groups can study and relax. There are AS Councils that sponsor student activities at the following locations: Chinatown/North Beach, Civic Center, Downtown, Evans, John Adams, Mission, Ocean, and Southeast.

Transfer to Universities and Colleges
To earn the Bachelor’s or a higher degree, or to complete training for a profession, you may transfer from City College to a university or a college as follows:

If, when you enter City College, you have already satisfied the requirements for admission to a university or a college, you may transfer with full credit whenever you have completed the proper university courses satisfactorily. Because the College is accredited nationally and offers preparation for so many fields, you have a wide choice of schools at which to take advanced courses. Generally, to be eligible for transfer, you will need an average final grade not lower than C in all courses that you attempt.

If you need to make up high school courses or grades, you may remove your deficiencies while you take the university courses for which you are qualified. The courses and grades necessary for transfer and the number of semesters you will need to complete depend upon the requirements of the university or college at which you plan to continue your studies.

The section in this catalog entitled “Transfer Information” lists general transfer requirements for the University of California (all campuses) and California State University (all campuses).

Articulation agreements which list detailed information concerning specific majors and which describe course transferability and applicability between City College of San Francisco and public baccalaureate degree-granting institutions in California are available online, www.assist.org. Other articulation information for City College can be found at www.ccsf.edu/artic.
Overview of the College

Associate Degrees and Certificate Programs

Administration of Justice and Fire Science
ASSOCIATE DEGREE
Administration of Justice Major (AS-T) .................................. 70
Administration of Justice Major (AS) .................................. 70
Fire Science Technology Major (AS) .................................. 72
CREDIT CERTIFICATE
Administration of Justice Certificate .................................. 71
Company Officer Certificate .................................. 72
Criminal and Constitutional Law Certificate .................................. 71
Fire Protection Certificate .................................. 73
Firefighter 1 Academy Certificate .................................. 73

Aircraft Maintenance Technology
ASSOCIATE DEGREE
Aircraft Powerplant Maintenance Technology Major (AS) ............. 82
Airframe-Maintenance Technology Major (AS) ............. 82
Avionics-Maintenance Technology Major (AS) ............. 83
CREDIT CERTIFICATE
Aircraft Powerplant Maintenance Technology Certificate ............. 83
Airframe-Maintenance Technology Certificate ............. 83

Anthropology
ASSOCIATE DEGREE
Anthropology AA-T .................................. 85

Architecture
ASSOCIATE DEGREE
Architecture Major (AS) .................................. 87
Construction Management Major (AS) .................................. 88
Interior Design Major (AS) .................................. 88
CREDIT CERTIFICATE
Collaborative Design Certificate* .................................. 90
Construction Management: Advanced Skills Certificate ............. 89
Interior Design: Assistant Interior Designer Core Skills Certificate .................................. 90

Art
ASSOCIATE DEGREE
Studio Arts Major (AA-T) .................................. 92
Art History Major (AA-T) .................................. 93

Asian American Studies
CREDIT CERTIFICATE
Asian American Studies Certificate .................................. 99

Asian Studies
CREDIT CERTIFICATE
Asian Studies Certificate .................................. 101

Automotive/Motorcycle, Construction, and Building Maintenance
ASSOCIATE DEGREE
Automotive Mechanics Major (AS) .................................. 105
Motorcycle Technician Major (AS) .................................. 109
CREDIT CERTIFICATE
Auto Body Damage Analysis and Estimating Certificate ............. 108
Auto Body Non-Structural Analysis and Damage Repair Certificate .................................. 109
Auto Body Painting and Refinishing Certificate ............. 108
Auto Body Structural Analysis and Damage Repair Certificate .................................. 108
Automotive Engine Performance and Drivability Certificate ............. 106
Automotive Hybrid and EV Technology Certificate ............. 106
Brake and Suspension Specialist Certificate .................................. 106
Carpentry Certificate .................................. 111
Engine Repair Specialist Certificate .................................. 107
General Automotive Technician Certificate .................................. 107
Motorcycle Engine and Power Train Repair Certificate ............. 110
Motorcycle General Service Certificate .................................. 110
Motorcycle Tune-up, Electrical, and Performance Certificate ............. 110
Residential Plumbing Certificate .................................. 111
Residential Wiring Certificate .................................. 111
Solar Hot Water Systems Certificate .................................. 112
Transmission Specialist Certificate .................................. 107
Utility Technician/Helper Certificate .................................. 107
NONCREDIT CERTIFICATE
Custodial Training Noncredit Certificate .................................. 112

Biological Sciences
ASSOCIATE DEGREE
Biology Major (AS-T) .................................. 118
Biological Sciences Major (AS) .................................. 118
Environmental Science Major (AS) .................................. 119
CREDIT CERTIFICATE
Biological Sciences Certificate .................................. 119

Broadcast Electronic Media Arts
ASSOCIATE DEGREE
Film, Television & Electronic Media Major (AS-T) ............. 125
CREDIT CERTIFICATE
Audio and Video for the Web Certificate .................................. 125
Broadcast Motion Graphics Certificate .................................. 125
Convergent Media Production Certificate .................................. 126
Foundations in Broadcast Electronic Media Arts Certificate ............. 126
Live Sound Certificate .................................. 127
Multimedia Journalism Certificate .................................. 127
Sound Design Certificate .................................. 128
Sound Recording Arts Certificate .................................. 128
Television Production Certificate ......................................... 128
Video Editing and Post Certificate ......................................... 129

**Business**

**ASSOCIATE DEGREE**
- Business Administration Major (AS-T) ........................................ 142
- Accounting Major (AS) .......................................................... 133
- Administrative Support Major (AS) ........................................... 136
- California Real Estate Major (AS) ........................................... 146
- Finance Major (AS) .............................................................. 141
- General Business Major (AS) .................................................. 142
- Marketing Major (AS) ........................................................... 144
- Paralegal/Legal Studies Major (AS) ........................................ 145
- Travel and Tourism Major (AS) ............................................... 148

**CREDIT CERTIFICATE**
- California Real Estate Certificate ........................................ 147
- Computer Accounting Certificate ......................................... 134
- Construction Office Administration Certificate .................... 136
- Finance Certificate ............................................................ 142
- General Business Certificate ............................................... 143
- Green and Sustainable Travel Certificate .............................. 149
- International Business Certificate ....................................... 143
- Marketing Certificate .......................................................... 144
- Office Administration Specialist Certificate ......................... 137
- Office Technology Certificate .............................................. 136
- Paralegal/Legal Studies Certificate ...................................... 146
- Retail Management Certificate ............................................ 147
- Supervision and Management Certificate ............................ 148
- Travel and Tourism Certificate ............................................ 149
- Travel and Tourism Management Certificate ....................... 149
- Travel and Tourism: Destination Specialist Certificate .......... 150

**NONCREDIT CERTIFICATE**
- Accounting Assistant Noncredit Certificate .......................... 134
- Basic Business Skills in the Medical Office Noncredit Certificate ........................................ 138
- Basic Computer Concepts Noncredit Certificate ....................... 138
- Business Website Builders Noncredit Certificate .................... 139
- Computer Applications for Business Noncredit Certificate .... 139
- Computerized Accounting Specialist Noncredit Certificate ...... 135
- Cloud-Based Electronic Communication Noncredit Certificate ........................................ 139
- Customer Service Noncredit Certificate ................................ 137
- Electronic Publishing Noncredit Certificate ............................ 140
- Excel Specialist Noncredit Certificate .................................... 140
- Microsoft Office Specialist Noncredit Certificate .................... 141
- QuickBooks & Spreadsheets for Accounting Noncredit Certificate ........................................ 135
- Small Business Noncredit Certificate .................................... 147

**Child Development and Family Studies**

**ASSOCIATE DEGREE**
- Child and Adolescent Development Major (AA-T) .................... 164
- Early Childhood Education Major (AS-T) ............................... 165
- Child Development & Family Studies Major (AS) .................... 165

**CREDIT CERTIFICATE**
- Child Development: Administration Certificate ..................... 166
- Child Development: Family Childcare Certificate ................... 166
- Child Development: Infant/Toddler Care Certificate ............... 167
- Child Development: Pre-Teacher Certificate ........................... 167
- Child Development: Professional Development and Advocacy Certificate ........................................ 167
- Child Development: School-Age Care Certificate .................... 168
- Child Development: Violence Intervention in Early Childhood Certificate ........................................ 168
- Child Development: Youth Worker Certificate ....................... 169
- ECE Associate Teacher Certificate ....................................... 169
- ECE Practitioner Certificate .................................................. 169
- Introduction to Special Education Certificate ......................... 170
- Special Education: ECE Intervention Certificate ..................... 170

**NONCREDIT CERTIFICATE**
- Introduction to Child Development Careers Noncredit Certificate ........................................ 171

**Chinese**

**ASSOCIATE DEGREE**
- Chinese (Mandarin) Major (AA) ........................................... 177

**CREDIT CERTIFICATE**
- Chinese (Mandarin) Certificate ............................................ 178

**Cinema**

**ASSOCIATE DEGREE**
- Film, Television & Electronic Media Major (AS-T)* ............... 182
- Cinema Production Major (AS) ............................................. 182

**Communication Studies**

**ASSOCIATE DEGREE**
- Communication Studies Major (AA-T) .................................. 184

**Computer Networking and Information Technology**

**ASSOCIATE DEGREE**
- Computer Networking and Information Technology Major (AS) ........................................ 186

**CREDIT CERTIFICATE**
- Advanced Cybersecurity Certificate ..................................... 188
- Advanced Web Development Techniques Certificate ................ 187
- Computer Technical Support Certificate ............................... 187
- Computer Technician Certificate ......................................... 188
- Cybersecurity Certificate .................................................... 188
- Fundamentals of Networking Certificate ............................... 188
- Fundamentals of Technical Support Certificate ...................... 189
<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JavaScript Specialist Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td><strong>Microsoft Windows Networking Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td><strong>Mobile Web App Development Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td><strong>Network Security Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td><strong>Routing and Switching (Cisco) Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td><strong>Security for Web App Development Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td><strong>Web Site Development Techniques Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td><strong>Wireless Networking Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td><strong>Computer Science</strong></td>
<td>ASSOCIATE</td>
<td>Degree</td>
</tr>
<tr>
<td>Computer Science Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Credit Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td>Android Automation for DevOps &amp; QA Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Build Automation for DevOps &amp; QA Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Programming: C++ Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Programming: Java Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computing Skills for Scientists Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database Programming: Microsoft SQL Server with C# Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database Programming: MySQL/Open Source Technologies Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database Programming: Oracle Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iPhone Application Programming Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linux Administration I Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linux Administration II Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Application Programming Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CSU GE-Breadth</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td>CSU GE-Breadth Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Culinary Arts and Hospitality Studies</strong></td>
<td>ASSOCIATE</td>
<td>Degree</td>
</tr>
<tr>
<td>Culinary Arts Management Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food Service Management Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hotel Management Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Noncredit Certificate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baking and Pastry Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Culinary Arts Basic Training Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Culinary and Service Skills Training Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dental Assisting</strong></td>
<td>ASSOCIATE</td>
<td>Degree</td>
</tr>
<tr>
<td>Dental Assisting Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Credit Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td>Dental Assisting Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Earth Sciences</strong></td>
<td>ASSOCIATE</td>
<td>Degree</td>
</tr>
<tr>
<td>Geography Major (AA-T)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geology Major (AS-T)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Studies Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceanography Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Credit Certificate</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td>Geographic Information Systems (GIS) Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Economics</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td>Economics Major (AA-T)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Engineering and Technology</strong></td>
<td>CREDIT</td>
<td>Certificate</td>
</tr>
<tr>
<td>Biotechnology Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic Engineering Technology Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering Technology Major (AS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Noncredit Certificate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beginning VESL Communication Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beginning VESL for Janitorial Workers Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beginning VESL for the Hospitality Industry Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESL Advanced Low Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESL Computer Assisted Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESL Beginning High Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESL Beginning High Focus Skills Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESL Beginning Intensive Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESL Beginning Low Noncredit Certificate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Environmental Horticulture and Floristry

**ASSOCIATE DEGREE**
- Commercial Cut-Flower and Greenhouse Production Major (AS) ........................................ 265
- Landscape Gardening and Landscape Contracting Major (AS) ......................................... 265
- Nursery and Garden-Center Operation Major (AS) .......................................................... 266
- Floristry Major (AS) ............................................................................................................. 268

**CREDIT CERTIFICATE**
- Commercial Cut-Flower Greenhouse Production Certificate ........................................... 267
- Landscape Construction Certificate ..................................................................................... 267
- Landscape Design Certificate ............................................................................................. 267
- Landscape Maintenance Certificate ..................................................................................... 268
- Nursery and Garden-Center Operation Certificate ......................................................... 268

### Fashion

**ASSOCIATE DEGREE**
- Fashion Design Major (AS) .................................................................................................. 273
- Fashion Merchandising Major (AS) ...................................................................................... 272

**CREDIT CERTIFICATE**
- Advanced Apparel Techniques Certificate ......................................................................... 274
- Apparel Construction Certificate ........................................................................................ 274
- Fashion Design Certificate .................................................................................................. 274
- Fashion Illustration Certificate ............................................................................................ 275
- Fashion Merchandising Certificate ...................................................................................... 275
- Fashion Portfolio Certificate ................................................................................................. 275
- Fashion Styling Certificate .................................................................................................. 276
- Image Consulting Certificate ............................................................................................... 276
- Patternmaking Certificate .................................................................................................. 276
- Textiles Certificate .............................................................................................................. 277

**NONCREDIT CERTIFICATE**
- Textile, Weaving and Sewing Noncredit Certificate ......................................................... 277

### French

**ASSOCIATE DEGREE**
- French Major (AA) .............................................................................................................. 281

**CREDIT CERTIFICATE**
- French Certificate ............................................................................................................... 282

### German

**CREDIT CERTIFICATE**
- German Certificate ............................................................................................................. 285

### Health Care Technology

**ASSOCIATE DEGREE**
- Cardiovascular Technician/Echocardiography Major (AS) ................................................. 287
- Health Information Technology Major (AS) ........................................................................ 290
- Medical Administrative Assisting Major (AS) .................................................................. 294
- Medical Assisting Major (AS) ............................................................................................ 293
- Paramedic Major (AS) ........................................................................................................... 287

**CREDIT CERTIFICATE**
- CVT/Echocardiography Technician Certificate .................................................................... 288
- EKG Technician Certificate ................................................................................................. 288
- Emergency Medical Technician Certificate ......................................................................... 289
- Health Information Clerk I Certificate ................................................................................ 291
- Health Information Clerk II Certificate ............................................................................... 291
- Health Information Coding Specialist Certificate .............................................................. 292
- Health Information Technology Certificate .......................................................................... 292
- Medical Assisting Certificate .............................................................................................. 295
- Medical Biller Certificate .................................................................................................... 295
- Medical Clinic Assisting Certificate .................................................................................... 296
- Medical Evaluation Assistant Certificate ............................................................................. 296
- Medical Receptionist Certificate ........................................................................................ 297
- Paramedic Certificate .......................................................................................................... 289
- Pharmacy Technician Certificate ......................................................................................... 297

**NONCREDIT CERTIFICATE**
- Unit Coordinator (Hospital)/Ward Clerk Noncredit Certificate ............................................. 298

### Health Education

**ASSOCIATE DEGREE**
- Health Education Major (AS) ............................................................................................... 305

**CREDIT CERTIFICATE**
- Child Development: Youth Worker Certificate* .................................................................. 310
- Community Health Worker Certificate .................................................................................. 306
- Community Health Worker, Re-Entry Specialist Certificate ............................................. 307
- Community Health Worker, Youth Advocate Specialist Certificate ...................................... 307
- Community Mental Health Worker Certificate ..................................................................... 308
- Drug and Alcohol Studies Certificate .................................................................................... 308
Overview of the College

Health Care Interpreter Certificate .................................................. 309
Nutrition Assistant Certificate ....................................................... 310
Sexual Health Educator Certificate* ................................................. 310
Trauma Prevention and Recovery Certificate* .................................. 310

History
ASSOCIATE DEGREE
History Major (AA-T) ................................................................. 316

IGETC
CREDIT CERTIFICATE
IGETC Certificate ................................................................. 319

Interdisciplinary Studies
ASSOCIATE DEGREE
Social Justice Studies: Ethnic Studies Major (AA-T) ......................... 321
Critical Pacific Islands & Oceania Studies Major (AA) ....................... 320
CREDIT CERTIFICATE
Collaborative Design Certificate .................................................. 322
Critical Middle East/South West Asia and North Africa Studies Certificate .................................................. 322
Critical Pacific Islands Studies Certificate ..................................... 323
Diversity and Social Justice Certificate ........................................... 324
Trauma Prevention and Recovery Certificate ................................... 324

Italian
ASSOCIATE DEGREE
Italian Major (AA) ................................................................. 328
CREDIT CERTIFICATE
Italian Certificate ................................................................. 328

Japanese
ASSOCIATE DEGREE
Japanese Major (AA) .............................................................. 330
CREDIT CERTIFICATE
Japanese Certificate .............................................................. 331

Journalism
ASSOCIATE DEGREE
Journalism Major (AA-T) ....................................................... 333
Journalism Major (AA) ............................................................. 333
CREDIT CERTIFICATE
Editorial Management and Design Certificate .................................. 334
On-line Research Certificate .......................................................... 334

Labor and Community Studies
ASSOCIATE DEGREE
Labor and Community Studies Major (AS) .................................... 336

Latin American and Latino/a Studies
ASSOCIATE DEGREE
Latin American & Latino/a Studies Major (AA) ............................. 338
CREDIT CERTIFICATE
Latin American & Latino/a Studies Certificate ............................. 339

Lesbian, Gay, Bisexual, and Transgender Studies
ASSOCIATE DEGREE
Lesbian, Gay, Bisexual and Transgender Studies Major (AA) ........... 342

Liberal Arts and Sciences
ASSOCIATE DEGREE
Arts and Humanities Emphasis (AA) .......................................... 346
Associate in Arts in Arts and Humanities ...................................... 346
Communication Emphasis (AA) .................................................. 349
Associate in Arts in Communication ............................................. 349
Science and Mathematics Emphasis (AS) ...................................... 350
Associate in Science in Science and Mathematics ......................... 350
Social and Behavioral Sciences Emphasis (AS) ............................... 351

Library Information Technology
ASSOCIATE DEGREE
Library Information Technology Major (AS) .................................. 353
CREDIT CERTIFICATE
Library Information Technology Certificate .................................... 354

Maker Studies
CREDIT CERTIFICATE
Collaborative Design Certificate .................................................. 356

Mathematics
ASSOCIATE DEGREE
Mathematics Major (AS-T) ...................................................... 356

Music
CREDIT CERTIFICATE
Computers and Music Certificate .................................................. 359
Music Technology Certificate ..................................................... 360

Nursing, Registered
ASSOCIATE DEGREE
Registered Nursing Major (AS) .................................................. 366

Nursing, Licensed Vocational
CREDIT CERTIFICATE
Home Health Aide/Nurse Assistant Certificate .................................. 369
Vocational Nursing Certificate ..................................................... 369

Photography
ASSOCIATE DEGREE
Photography Major (AS) ........................................................... 377
CREDIT CERTIFICATE
Alternative Photography Processes Certificate .................................. 378
Architectural Photography Certificate ............................................ 378
B&W Photography: The Print Certificate ....................................... 379
B&W Photography: The Zone System Certificate ............................. 379
Collaborative Design Certificate* .................................................. 382
Digital Photography Certificate ..................................................... 379
Motion Photography Field Certificate ............................................. 380
Photography Studio Practice Certificate ................................................. 380
Portrait Lighting Certificate ................................................................. 381
Reportage Photography Certificate ...................................................... 381
Studio Lighting Certificate ................................................................. 381

Physical Education and Dance
ASSOCIATE DEGREE
Dance Performance Art Major (AA) ...................................................... 385

CREDIT CERTIFICATE
African Heritage Performance Certificate ............................................. 387
Classical Dance Performance Certificate ............................................. 386
Dance Aerobics and Fitness Certificate ............................................... 387
Social Dance Certificate ........................................................................ 388
Yoga Certificate .................................................................................. 388

Physics
ASSOCIATE DEGREE
Physics Major (AS) ............................................................................. 405

Pilipino
CREDIT CERTIFICATE
Pilipino Certificate ............................................................................... 408

Political Science
ASSOCIATE DEGREE
Political Science Major (AA-T) ............................................................ 409

Psychology
ASSOCIATE DEGREE
Psychology Major (AA-T) .................................................................. 410

Radiologic Sciences
ASSOCIATE DEGREE
Diagnostic Medical Imaging Major (AS) ............................................. 414

Russian
CREDIT CERTIFICATE
Russian Certificate .............................................................................. 416

Sociology
ASSOCIATE DEGREE
Sociology Major (AA-T) ..................................................................... 418

Spanish
ASSOCIATE DEGREE
Spanish Major (AA-T) ....................................................................... 419
Spanish Major (AA) ............................................................................. 420
CREDIT CERTIFICATE
Spanish Certificate .............................................................................. 421

Theatre Arts
ASSOCIATE DEGREE
Theatre Arts Major (AA-T) ................................................................. 424
CREDIT CERTIFICATE
Acting Foundations Certificate ............................................................. 424

Transitional Studies
CCSF High School Diploma Program ..................................................... 430

NONCREDIT CERTIFICATE
Adult Basic Education Level 1 Noncredit Certificate .......................... 432
Adult Basic Education Level 2 Noncredit Certificate .......................... 432
Adult Secondary Education Level 3 Noncredit Certificate ................. 432
Academic Skills Elementary Level 1 Noncredit Certificate ............... 433
Academic Skills Intermediate Level 2 Noncredit Certificate ............. 433

Visual Media Design
ASSOCIATE DEGREE
Graphic Design Major (AA) ............................................................... 437

CREDIT CERTIFICATE
Collaborative Design Certificate* ....................................................... 438
Digital Animation Certificate ............................................................. 438
Digital Art Foundation Certificate ...................................................... 437
Digital Illustration Certificate ............................................................. 438
Game Development Certificate .......................................................... 439
Visual & Interactive Design Certificate .............................................. 439
Visual Design Foundation Certificate ................................................. 438
Visual Media Production Certificate .................................................. 440

Women's Studies
ASSOCIATE DEGREE
Social Justice Studies: Gender Studies Major (AA-T) ....................... 444
Women's Studies Major (AA) ............................................................... 445
CREDIT CERTIFICATE
Sexual Health Educator Certificate .................................................... 446