CITY COLLEGE OF SAN FRANCISCO OFFERS YOU

UNBEATABLE VALUE
CCSF offers low-cost credit and free noncredit courses in an incredible array of career/technical programs and academic disciplines. In addition to affordable tuition, you can take advantage of the City’s financial aid, scholarships, book loan, and work-study opportunities while achieving your educational goals.

OPPORTUNITIES FOR ALL
Hope to enter or advance in a career? Plan to transfer? Want to improve your English? Seek personal enrichment opportunities? CCSF’s doors are open to you. If you are 18 years of age or older, or if you have a high school degree or GED, you can choose from a wide array of subject areas, pathways, and courses at CCSF. Some programs may require specific preparation in order to participate. Current high school students may be eligible for courses through concurrent enrollment.

CONVENIENT TIMES AND LOCATIONS
With 10 locations throughout San Francisco, you can take classes near your home or work. Visit www.ccsf.edu/campuses for information on all our campus and center locations. We hold day, evening, and weekend classes, and also offer a wide variety of online courses to accommodate your schedule. You can learn how to enroll and find the current class schedule at www.ccsf.edu/schedule.

HIGH-QUALITY TEACHING
CCSF’s faculty have excellent qualifications and a passion for teaching. Nearly all have master’s degrees and many hold doctorates in their instructional area. Students in career and technical programs benefit from faculty who are dedicated to teaching and keeping their skills current by continuing to work in the field.

CITY COLLEGE OF SAN FRANCISCO BOARD OF TRUSTEES
DR. MARK ROCHA, Chancellor
ALEX RANDOLPH, President
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BRIGITTE DAVILA • IVY LEE
JOHN RIZZO • THEA SELBY • SHANELL WILLIAMS

It is the policy of the San Francisco Community College District to comply with all laws related to and provide all persons equal opportunity in all of its programs and activities regardless of race, color, ancestry, national origin, ethnic group identification, religion, age, gender, marital status, domestic partner status, sexual orientation, disability or AIDS/HIV status, medical conditions, gender identity or status as a veteran. These categories specifically include status as a lesbian, gay, bisexual, transgender or questioning person. This guide was produced through the collaborative efforts of the Office of Career & Technical Education and the Visual Media Design Department. This project was funded fully by the Carl D. Perkins CTEA Act of 2006 grant 16-C01-048, awarded to City College of San Francisco and administered by the California Community Colleges Chancellor’s Office.
CAMPUS/CENTER LOCATIONS

OCEAN CAMPUS  
50 Frida Kahlo Way  
San Francisco, CA 94112  
(415) 239-3000

AIRPORT CENTER  
San Francisco International Airport  
North Access Road, Building 928  
South San Francisco, CA 94080  
(650) 821-0220

CHINATOWN/NORTH BEACH CENTER  
808 Kearny Street  
San Francisco, CA 94108  
(415) 395-8600

CIVIC CENTER  
1170 Market Street  
San Francisco, CA 94102  
(415) 561-1020 or (415) 561-1875

DOWNTOWN CENTER  
88 4th Street  
San Francisco, CA 94103  
(415) 267-6500

EVANS CENTER  
1400 Evans Avenue  
San Francisco, CA 94124  
(415) 550-4440

FORT MASON CENTER  
2 Marina Boulevard – Building B  
Laguna Street & Marina Boulevard  
San Francisco, CA 94123  
(415) 561-1840

JOHN ADAMS CENTER  
1860 Hayes Street  
San Francisco, CA 94117  
(415) 561-1925

MISSION CENTER  
1125 Valencia Street  
San Francisco, CA 94110  
(415) 920-6000

SOUTHEAST CENTER  
1800 Oakdale Avenue  
San Francisco, CA 94124  
(415) 550-4300

OFFICES

CAREER COUNSELING  
Main Office: Ocean Campus, MUB 101  
(415) 239-3117

WORK EXPERIENCE  
Main Office: Ocean Campus, Arts 210  
(415) 452-7045

STUDENT EMPLOYMENT  
Main Office: Ocean Campus, MUB 260  
(415) 452-5669

TRANSFER COUNSELING  
Main Office: Ocean Campus, Science 132  
(415) 239-3748

CONTINUING STUDENT COUNSELING  
Main Office: Ocean Campus, MUB 39  
(415) 239-3002

NEW STUDENT COUNSELING  
Main Office: Ocean Campus, Conlan 205  
(415) 239-3296

Chinatown/NB: (415) 395-8611
Civic Center: (415) 561-1875
Downtown: (415) 267-6503
Evans: (415) 550-4440
John Adams: (415) 561-1925
Mission: (415) 920-6055
Southeast: (415) 550-4320

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Enrolling at CCSF may be your first step on a new career path, part of your plan to remain ahead of changing demands in your workplace, or fulfillment in your lifelong-learning objective for lasting and rewarding employment. We look forward to helping you achieve your career goals.

Unsure about which career path is right for you? Take the CareerMatch survey at [www.ccfs.edu/en/educational-programs/cte/exploring/career_match_survey.html](http://www.ccfs.edu/en/educational-programs/cte/exploring/career_match_survey.html) to see how your interests match with Career Education (CE) programs offered at CCSF.

### CAREER EDUCATION

**WHAT IS CAREER EDUCATION?**

Career Education (CE) programs are designed to prepare students for employment in a specific workplace. The programs are listed by academic department in alphabetical order.

**Completion Award**

When all the courses in a program have been completed, students may apply for an associate degree, a credit certificate, or a noncredit certificate. Certificate programs are usually 12 to 30 units, while associate degree programs require 60 or more units of coursework, including general education courses.

**Credit/noncredit**

Many CE programs offer college credit that can be applied to a college degree. The CE Guide will help you to understand how to enroll in over 200 CE programs available at CCSF. The CE Guide is available online at [ccsf.edu](http://ccsf.edu).

**HOW TO USE THE GUIDE**

The CE Guide will help you to understand how to enroll in over 200 CE programs available at CCSF. Here are some terms you will see:

#### Program

CCSF CE programs consist of courses designed to prepare students for employment in a specific career field. Programs are listed by academic department in alphabetical order.

#### Completion Award

When all the courses in a program have been completed, students may apply for an associate degree, a certificate, or a noncredit certificate. Certificate programs are usually 12 to 30 units, while associate degree programs require 60 or more units of coursework, including general education courses.

#### Credit/noncredit

Many CE programs offer college credit that can be applied to a college degree. The CE Guide will help you to understand how to enroll in over 200 CE programs available at CCSF. Here are some terms you will see:

- **Program**
- **Completion Award**
- **Credit/noncredit**

### ENROLLMENT

#### Credit Program

1. **Apply for Admission and Financial Aid**
   - All NEW and RE-ADMIT students (those who have been away from CCSF for one academic year or more prior to the coming semester) need to submit an admissions application.
   - If qualified, students may apply for Financial Aid. Paying for the cost of a college education requires a partnership among parents, students, and the college.
   - Each partner has responsibilities to fulfill in meeting that cost. Financial aid is money that helps pay for the cost of education (college fees, books, and supplies).
   - City College of San Francisco (CCSF) participates in most federal and state financial aid programs.

2. **Complete the English or ESL and Math Assessments**
   - AB 705
   - With the newly enacted Assembly Bill 705, students may receive English and math course placements using high school performance data. Please meet with an academic counselor to develop your education plan in preparation for the next semester!
   - View your English and math course placement based on the new English and Math course placement models per AB 705 by logging into Web4. You can review your course placement, Web Registration Appointment, and other related information.
   - Students who feel they need additional language acquisition support may want to take the Credit ESL Placement Test or talk to an academic counselor about the ESL sequence.

3. **Attend a New Student Orientation**
   - All non-exempt new students to City College are required to participate in New Student Orientation. The orientation answers many of your questions about becoming a student at City College and introduces you to essential programs, services, and procedures.
   - You may participate in one of our upcoming All-in-One Days or complete an Online Orientation.

4. **Meet with a Counselor**
   - You will meet with an academic counselor after you complete your online or in-person orientation to CCSF. You and your counselor will complete the Initial Educational Plan, selecting courses for your first one or two semesters at City College.
   - Once you have completed Steps 1–4 the Initial Educational Plan and the Matriculation Component Card must be submitted to Conlan Hall, E-204 in order to earn the earliest possible registration date.
   - If you are in a special program (e.g., international students) you will need to see one of the counselors assigned to that program.
   - You choose your counselor! Plan to meet with your counselor at least once per semester.

### Noncredit Program

Your steps to becoming a City College noncredit student:

1. **Apply for Noncredit Admission**
2. **Take a Noncredit & Credit Placement Test**
3. **Meet with a Counselor**
4. **Register for Noncredit Classes**

Go to the Admissions and Enrollment Office at the educational centers listed to obtain admissions and registration information. Most noncredit classes can be started at anytime during the semester.
Arts, Media & Entertainment

Career Examples

MEDIAN ANNUAL SALARIES (2018)

BROADCAST TECHNICIANS $62.3K
FASHION DESIGNER $90.8K
ART DIRECTOR $137K

Do you enjoy developing creative solutions to solve problems?
Would you like a career that allows you to be imaginative, independent, and expressive?

Growth in Arts, Media & Entertainment

Graphic Designers are needed in the San Francisco Bay Area with 1,300+ job openings every year.

SOURCE: http://coeccc.net/Search.aspx?id=1778

Find Out More:
- Check out the Arts, Media & Entertainment website: www.ccsf.edu/cte/arts_media_entertainment.html
- Email a counselor: cteinfo@ccsf.edu
- Call the Career Center: (415) 239-3117
- CCSF Main Campus Multi-Use Building Room 101

Program Units Required AA/AS/Certificate/Credit/Noncredit
Arts Administration (415) 452-3290 38 AS/Credit
Assistant Interior Designer 15 Cert/Credit
Interior Design 34 AS/Credit
Art History 21–22 AA-T/Credit
Studio Arts 24 AA-T/Credit
Broadcast Electronic Media Arts (415) 239-3051 6 Cert/Credit
Audio and Video for the Web 22 Cert/Credit
Broadcast Motion Graphics 20 Cert/Credit
Convergent Media Production 51–53 AS T/Credit
Film, Television, and Electronic Media 19–21 AS T/Credit
Foundation in Broadcast Electronic Media Arts 17 Cert/Credit
Live Sound 15 Cert/Credit
Multimedia Broadcast Journalism 26 Cert/Credit
Multimedia Content Creation for the Internet 9 Cert/Credit
Sound Design 15 Cert/Credit
Sound Recording Arts 16 Cert/Credit
Television Production 18 Cert/Credit
Video Editing and Post Production 18 Cert/Credit
Broadcast Electronic Media Arts (415) 239-3051 38–39 AS/Credit
Film, Television, and Electronic Media 19–21 AS T/Credit
Preproduction/Producing 21 Cert/Credit
Communications Studies (415) 452-7150 10–19 AA T/Credit
Digital Animation (415) 239-3056 24–27 Cert/Credit
English (415) 239-3446 15 Cert/Credit
Creative Writing 20 AS AA T/Credit
English 20 AS AA-T/Credit
Environmental Horticulture & Floristry (415) 239-3140 32–45 AS/Cert/Credit
Commercial Cut-Flower and Greenhouse Production 38.5–43.5 AS/Credit
Floristry 38.5–43.5 AS/Credit
Fashion Design 42 AS/Credit
Fashion Illustration 15 Cert/Credit
Fashion Merchandising 38–41 AS/Credit
Fashion Styling and Personal Styling 20 Cert/Credit
Journalism (415) 239-3446 42 Cert/Credit
Editorial Management and Design 20 Cert/Credit
Journalism 18–44 AA/AA T/Credit
Online Research 20 Cert/Credit
Journalism (415) 239-3056 14 Cert/Credit
Collaborative Design 14 Cert/Credit
Maker Studios 18–19 Cert/Credit
Music (415) 239-3341 15–16 Cert/Credit
Computer and Music 15–16 Cert/Credit
Photography (415) 239-3442 19 Cert/Credit
Architectural Photography 19 Cert/Credit
Black and White Darkroom Photography 19 Cert/Credit
Digital Photography 18 Cert/Credit
Motion Photography Field 18 Cert/Credit
Motion Photography Studio 18 Cert/Credit
Photography 44–46 AS/Credit
Photography Criticism 14 Cert/Credit
Photography Studio Practice 16 Cert/Credit
Portrait Lighting 17 Cert/Credit
Reportage Photography 17 Cert/Credit
Studio Lighting 17 Cert/Credit
Physical Education and Dance (415) 239-3411 15 Cert/Credit
African Heritage Dance 15 Cert/Credit
Classical Dance 15 Cert/Credit
Dance Performance Art 36–40 AA/Credit
Social Dance 15 Cert/Credit
Therapy Arts (415) 239-3312 18 AA-T/Credit
Therapies Arts 18 AA-T/Credit
Visual Media Design (415) 239-2461 20 Cert/Credit
Digital Animation 20 Cert/Credit
Digital Art Foundation 20.5 Cert/Credit
Digital Illustration 25–37 Cert/Credit
Graphic Design 42 Cert/Credit
Visual and Interactive Design 21 Cert/Credit
Visual Design Foundation 25 Cert/Credit

SOURCE: Annual salaries: Economic Modeling Specialists International (EMSI), May 2018
Building & Construction Trades

There are projected to be 40,000+ construction jobs in the San Francisco Bay Area by 2024.

SOURCE: https://www.labormarketinfo.edd.ca.gov/data/employment-projections.html

Do you enjoy being outdoors doing hands-on work? Are you responsible, athletic, and a team player?

Find Out More:
- Check out the Building & Construction Trades website: www.ccsf.edu/cte/building.html
- Email a counselor: cteinfo@ccsf.edu
- Call the Career Center: (415) 239-3117
- CCSF Main Campus Multi-Use Building Room 101

Career Examples

MEDIAN ANNUAL SALARIES (2018)

CONSTRUCTION LABORER $150K HVAC REFRIGERATION MECHANIC $68.2K LANDSCAPE ARCHITECT $99.2K

Growth in Building & Construction Trades

<table>
<thead>
<tr>
<th>Program</th>
<th>Units/Hours Required</th>
<th>AA/AS/Certificate/Credit/Noncredit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture (415) 403-3250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>AS/Credit</td>
<td></td>
</tr>
<tr>
<td>Construction Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19–38</td>
<td>AS/Cert/Credit</td>
<td></td>
</tr>
<tr>
<td>Automotive/Motorcycle, Construction &amp; Building Maintenance (415) 550-0409</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custodial Training</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Cert/Credit</td>
<td></td>
</tr>
<tr>
<td>Custodian for Healthcare Industry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>243–303</td>
<td>Cert/Noncredit</td>
<td></td>
</tr>
<tr>
<td>Environmental Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34–40</td>
<td>AS/Credit</td>
<td></td>
</tr>
<tr>
<td>Maintenance (415) 550-0409</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Office Administration</td>
<td>12</td>
<td>AS/Cert</td>
</tr>
<tr>
<td>Environmental Studies</td>
<td>30–37</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Geography</td>
<td>29</td>
<td>AA-T/Credit</td>
</tr>
<tr>
<td>Geology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering and Technology (415) 239-3585</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering Aided Design &amp; Architecture</td>
<td>14</td>
<td>AS/Cert/Credit</td>
</tr>
<tr>
<td>Computer Aided Drafting</td>
<td>13–13.5</td>
<td>AS/Cert/Credit</td>
</tr>
<tr>
<td>Engineering Plumbing Systems</td>
<td>11.5</td>
<td>Cert/Credit</td>
</tr>
<tr>
<td>Heating, Ventilation, Air-Conditioning &amp; Refrigeration</td>
<td>9.5</td>
<td>Cert/Credit</td>
</tr>
<tr>
<td>Welding Technology Level</td>
<td>6</td>
<td>Cert/Credit</td>
</tr>
<tr>
<td>Environmental Horiculture &amp; Floristry (415) 239-3140</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landscape Construction</td>
<td>34</td>
<td>Cert/Credit</td>
</tr>
<tr>
<td>Landscape Design</td>
<td>12</td>
<td>Cert/Cert/Credit</td>
</tr>
<tr>
<td>Landscape Gardening &amp; Landscape Contracting</td>
<td>40</td>
<td>AS/Cert</td>
</tr>
<tr>
<td>Landscape Maintenance</td>
<td>32</td>
<td>Cert/Cert/Credit</td>
</tr>
<tr>
<td>Nursery and Garden Center Operation</td>
<td>26–39</td>
<td>AS/Cert/Credit</td>
</tr>
</tbody>
</table>

SOURCE: Annual salaries: Economic Modeling Specialists International (EMSI), May 2018
**Business & Finance**

**Career Examples**

**MEDIAN ANNUAL SALARIES (2018)**

<table>
<thead>
<tr>
<th>CUSTOMER SERVICE REPRESENTATIVE</th>
<th>REAL ESTATE BROKER</th>
<th>MARKETING MANAGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>$200K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$150K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$100K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$49.4K</td>
<td>$130.7K</td>
<td>$182.6K</td>
</tr>
</tbody>
</table>

**Growth in Business & Finance**

Occupations forecast in the Top 10 for job openings in the San Francisco Bay Area from 2019–2024 include

...accountants, retail salesperson, general operations managers, and auditors

SOURCE: https://www.labormarketinfo.edd.ca.gov/data/employment-projections.html

**Find Out More:**
- Check out the Business & Finance website: www.ccsf.edu/cte/business_finance.html
- Email a counselor: cteinfo@ccsf.edu
- Call the Career Center. (415) 239-3117
- CCSF Main Campus Multi-Use Building Room 101
Culinary, Retail & Hospitality

Do you enjoy leadership, competition, and working with others?
Do you dream of working in a profession that allows you to take advantage of your confidence, outgoing nature, and optimism?

Career Examples
MEDIAN ANNUAL SALARIES (2018)

<table>
<thead>
<tr>
<th>Role</th>
<th>Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chef and Head Cook</td>
<td>$53.7K</td>
</tr>
<tr>
<td>Restaurant/Food Services Manager</td>
<td>$61.3K</td>
</tr>
<tr>
<td>General Operations Manager</td>
<td>$159.2K</td>
</tr>
</tbody>
</table>

Growth in Culinary, Retail & Hospitality

Every year in San Francisco, there are 21,000 new food-related jobs created, plus 15,000 in retail and 12,000 jobs in hospitality and travel as well!

SOURCE: Economic Modeling Specialists International (EMSI)

Find Out More:
- Check out the Culinary, Retail, and Hospitality website: www.ccsf.edu/cte/retail.html
- Email a counselor: cteinfo@ccsf.edu
- Call the Career Center: (415) 239-3117
- CCSF Main Campus Multi-Use Building Room 101

Program Units/Hours Required AA/AS/Certificate/Credit/Noncredit
Retail Management (415) 239-3203 24–26 Cert/Credit
Communication Studies (415) 239-7136 18–19 AA/T-Credit
Culinary Arts and Hospitality Studies (415) 239-3152 80–85.5 AS/Credit
Baking and Pastry 1020 hrs Cert/Noncredit
Culinary Arts Basic Training 260 hrs Cert/Noncredit
Culinary Arts Management 60–62.5 AS/Credit
Food Service Management 59–60 AS/Credit
Hotel Management 48–53.5 AS/Credit
Environmental Horticulture & Floristry (415) 239-3140 32–45 AS/Germ/Credit
Commercial Cut Flower and Greenhouse Production 38.5–42.5 AS/Credit
Floristry 38.5–42.5 AS/Credit
World Languages & Cultures (415) 239-3223 Various Various AA/AA-T/Germ/Credit

SOURCE: Annual salaries: Economic Modeling Specialists International (EMSI), May 2018

SOURCE: Economic Modeling Specialists International (EMSI)
Career Examples

MEDIAN ANNUAL SALARIES (2018)

SOCIAL & HUMAN SERVICES ASSISTANT $150K
SPECIAL EDUCATION TEACHER $86.6K
FIREFIGHTER $95.6K

$100K
$50K
$25K

Are you friendly, patient, responsible, and caring?
Do you enjoy expressing yourself and finding creative solutions?

Growth in Education, Public & Social Services

5,000+

education, public, and social services jobs will be added to the San Francisco Bay Area by 2024.

SOURCE: Economic Modeling Specialists International ($456)

Find Out More:
- Check out the Education, Public & Social Services website: www.ccsf.edu/cte/education.html
- Email a counselor: cteinfo@ccsf.edu
- Call the Career Center: (415) 239-3117
- CCSF Main Campus Multi-Use Building Room 101
Healthcare Career Examples

**MEDIAN ANNUAL SALARIES (2018)**

<table>
<thead>
<tr>
<th>Program</th>
<th>Units/Hours Required</th>
<th>AAI/AS/Certificate/Credit/Noncredit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive/Motorcycle, Construction, and Building Maintenance</td>
<td>480–303 hrs</td>
<td>AS/Credit/Voc, Certificate</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>240 hrs</td>
<td>As/Credit</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>47</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Biology</td>
<td>20–30</td>
<td>AS/T/Credit</td>
</tr>
<tr>
<td>Chemistry</td>
<td>52</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Chemistry</td>
<td>52</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Dental Assisting</td>
<td>30–47</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Dental Assisting</td>
<td>32–55</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>20–355</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>15–44</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>15</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Stem Cell Technology</td>
<td>12</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Healthcare Technology</td>
<td>81–3516</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>CTV/Echocardiography Technician</td>
<td>91</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>EKG Technician</td>
<td>9</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Health Information Technician</td>
<td>36–41</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Health Information Coding Specialist</td>
<td>47–52</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Health Information Technology</td>
<td>52–57</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Medical Administrative Assistant</td>
<td>50–55</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Medical Assisting</td>
<td>54–56</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Medical Billing</td>
<td>31.5</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Medical Clinic Assisting</td>
<td>22</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Medical Evaluation Assistant</td>
<td>41–46</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Medical Receptionist</td>
<td>34–39.5</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Nursing Refresher</td>
<td>400 hrs</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Paramedic</td>
<td>50</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Pharmacy Technician</td>
<td>30</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Unit Coordinator and Medical Computing Skills</td>
<td>100 hrs</td>
<td>Noncredit</td>
</tr>
<tr>
<td>Health Education</td>
<td>21–22</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>HIV/AIDS Refresher</td>
<td>20</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Community Health Worker</td>
<td>20</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Community Health Worker Elder Advocate Specialist</td>
<td>21</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Community Health Worker HIV and Hepatitis Navigation Specialist</td>
<td>22</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Community Health Worker Re-Entry Specialist</td>
<td>20</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Community Health Worker Youth Advocate Specialist</td>
<td>20</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Community Mental Health Worker</td>
<td>16</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Health Education</td>
<td>21</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Healthcare Interpreter</td>
<td>27–40</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Nutrition Assistant</td>
<td>20</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Public Health Science</td>
<td>34–35</td>
<td>AS T/Credit</td>
</tr>
<tr>
<td>Interior Design</td>
<td>24–27</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Marketing (415)</td>
<td>229-3247</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Mathematics</td>
<td>21–24</td>
<td>AS T/Credit</td>
</tr>
<tr>
<td>Paramedic</td>
<td>50</td>
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<tr>
<td>Radiography (415)</td>
<td>229–3242</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Diagnostic Medical Imaging</td>
<td>30</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Women’s Health Studies</td>
<td>30</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Gender Studies</td>
<td>30</td>
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</tr>
<tr>
<td>Social Work</td>
<td>16</td>
<td>AS/Credit</td>
</tr>
</tbody>
</table>

**RADILOGIC TECHNOLOGIST**

**COMMUNITY HEALTH WORKER**

**REGISTERED NURSE**

$59K

$93.5K

$129K

$100K

$150K

Are you friendly, patient, responsible, and a team player? Do you enjoy observing, evaluating issues, and solving problems?

Find Out More:

- Check out the Healthcare website: www.ccfs.edu/cte/healthcare.html
- Email a counselor: cteinfo@ccsf.edu
- Call the Career Center: (415) 239-3117
- CCSF Main Campus Multi-Use Building Room 101

Growth in Healthcare

The Bay Area is projected to see **10,000+** new Healthcare jobs by 2024.

SOURCE: Economic Modeling Specialists International (EMSI)
Information Technology & Computer Science

Career Examples

MEDIAN ANNUAL SALARIES (2018)

<table>
<thead>
<tr>
<th>Career Role</th>
<th>Salary (K)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Support Specialist</td>
<td>$73.6</td>
</tr>
<tr>
<td>Computer Network Support Specialist</td>
<td>$85.2</td>
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<tr>
<td>Computer Programmer</td>
<td>$105.8</td>
</tr>
</tbody>
</table>

Growth in Information Technology & Computer Science

There will be at least 10,000 IT job openings between 2019–2024 in the San Francisco Bay Area.

SOURCE: Economic Modeling Specialists International (EMSI)

Would you like to have a career that takes advantage of your natural tendencies to observe, research, and analyze?

Are you most comfortable investigating logical solutions for machines and tools?

Find Out More:

- Check out the Information Technology & Computer Science website: www.ccsf.edu/cte/ict.html
- Email a counselor: emsinfo@ccsf.edu
- Call the Career Center: (415) 239-3117
- CCSF Main Campus Multi-Use Building Room 101

Program | Units/Hours Required | AA/AS/Certificate/Credit/Noncredit
---------|----------------------|-----------------------------------------------
Business (415) 239-3200
Website Development for E-Business | 360 hrs | Cert/Noncredit
Advanced Cybersecurity | 15 | Cert/Credit
Advanced Web Development Techniques | 16–17 | Cert/Credit
Computer Networking & Information Technology | 21–22 | AS/Credit
Computer Technical Support | 22 | Cert/Credit
Computer Technician | 14 | Cert/Credit
Fundamentals of Networking | 15 | Cert/Credit
Fundamentals of Technical Support | 16 | Cert/Credit
JavaScript Specialist | 12 | Cert/Credit
Microsoft Windows Networking | 15 | Cert/Credit
Mobile Web Development | 16 | Cert/Credit
Network Security | 15 | Cert/Credit
Routing & Switching | 21 | Cert/Credit
Security for Web App Development | 15 | Cert/Credit
Web Site Development Techniques | 13–15 | Cert/Credit
Wireless Networking | 15 | Cert/Credit

Computer Science (415) 452-3055
Android App Programming | 18–21 | Cert/Credit
Build Automation for DevOps & QA | 13–14 | Cert/Credit
Computer Programming C++ | 13–18 | Cert/Credit
Computer Programming Java | 17–20 | Cert/Credit
Computer Science | 25 | AS/Credit
Data Science Fundamentals | 17 | AS/Credit
Database Programming: Microsoft SQL Server w/ C# | 17 | Cert/Credit
Database Programming: MySQL/Open Source Technologies | 15–16 | Cert/Credit
Database Programming: Oracle | 13 | Cert/Credit
Game and Simulation Programming | 24–27 | Cert/Credit
Iphone App Programming | 13–16 | Cert/Credit
Linux Administration I | 8 | Cert/Credit
Linux Administration II | 10 | Cert/Credit
Web Application Programming | 18–22 | Cert/Credit

Earth Sciences (415) 452-1742
Geographic Information Systems (GIS) | 9 | Cert/Credit
Library Information Technology (415) 452-5599
Library Information Technology | 19 | AS/Credit
Marketing (415) 239-3416
Computers and Music | 15–16 | Cert/Credit
Photography Field | 14 | Cert/Credit
Motion Photography Field | 16 | Cert/Credit

Visual Media Design (415) 239-3481
Visual and Interactive Design | 21 | Cert/Credit
Science, Technology, Engineering & Mathematics (STEM)

Do you enjoy working with forms, design, and patterns?
Are you a person who searches for facts and solves problems efficiently?

Find Out More:
- Check out the Science, Technology, Engineering & Mathematics website: www.ccsf.edu/cte/stem.html
- Email a counselor: cteinfo@ccsf.edu
- Call the Career Center: (415) 239-3117
- CCSF Main Campus Multi-Use Building Room 101

Annually, there are 100+ job openings for Bioscience Technicians in the Bay Area.

SOURCE: http://coeccc.net/Search.aspx?id=1773

<table>
<thead>
<tr>
<th>Program</th>
<th>Units Required</th>
<th>AA/AS/Certificate/Credit/Noncredit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircraft Maintenance Technology (415) 827-0320</td>
<td>40</td>
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</tr>
<tr>
<td>Aircraft Powerplant Maintenance Technology</td>
<td>40</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Aircraft Maintenance Technology</td>
<td>40</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Avionics/Maintenance Technology</td>
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<tr>
<td>Architecture</td>
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<td>AS/Credit</td>
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<tr>
<td>Automotive/Interiors, Construction, and Building Maintenance (415) 530-4400</td>
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<tr>
<td>Automotive Hybrid/EV Technology</td>
<td>15</td>
<td>AS/Credit</td>
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<tr>
<td>Automotive Technician</td>
<td>18–27</td>
<td>AS/Credit</td>
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<tr>
<td>Biomedical Science (415) 239-3840</td>
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<td>Biological Sciences</td>
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<tr>
<td>Biology</td>
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<tr>
<td>Environmental Science</td>
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<td>Chemistry (415) 239-3180</td>
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<tr>
<td>Chemistry</td>
<td>52</td>
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<tr>
<td>Computer Networking &amp; Information Technology (415) 452-5322</td>
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<tr>
<td>Advanced Cybersecurity</td>
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<td>AS/Credit</td>
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<tr>
<td>Advanced Web Development Techniques</td>
<td>16–17</td>
<td>AS/Credit</td>
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<tr>
<td>Computer Networking &amp; Information Technology</td>
<td>21–22</td>
<td>AS/Credit</td>
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<tr>
<td>Computer Technical Support</td>
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<tr>
<td>Computer Technician</td>
<td>14</td>
<td>AS/Credit</td>
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<tr>
<td>Fundamentals of Networking</td>
<td>15</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Fundamentals of Technical Support</td>
<td>13</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Javascript Specialist</td>
<td>12</td>
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<tr>
<td>Microsoft Windows Networking</td>
<td>15</td>
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<tr>
<td>Mobile Web App Development</td>
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<td>AS/Credit</td>
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<td>Network Security</td>
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<td>AS/Credit</td>
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<tr>
<td>Routing &amp; Switching</td>
<td>21</td>
<td>AS/Credit</td>
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<tr>
<td>Security for Web App Development</td>
<td>15</td>
<td>AS/Credit</td>
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<tr>
<td>Wireless Networking</td>
<td>13–15</td>
<td>AS/Credit</td>
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<tr>
<td>Computer Science (415) 239-3565</td>
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<tr>
<td>Android App Programming</td>
<td>18–21</td>
<td>AS/Credit</td>
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<tr>
<td>Build Automation for GenOpe &amp; OA</td>
<td>13–14</td>
<td>AS/Credit</td>
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<tr>
<td>Computer Programming: C++</td>
<td>13–18</td>
<td>AS/Credit</td>
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<tr>
<td>Computer Programming: Java</td>
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<td>AS/Credit</td>
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<tr>
<td>Computer Science</td>
<td>25</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Data Science Fundamentals</td>
<td>17</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Database Programming: Microsoft SQL Server w/ DP</td>
<td>17</td>
<td>AS/Credit</td>
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<tr>
<td>Database Programming: MySQL/Oracle/Open Source Technologies</td>
<td>13</td>
<td>AS/Credit</td>
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<td>Database Programming: Oracle</td>
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<td>AS/Credit</td>
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<td>Emergency Services</td>
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<td>Linux Administration I</td>
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<tr>
<td>Linux Administration II</td>
<td>10</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Web Application Programming</td>
<td>18–22</td>
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<tr>
<td>Earth Sciences (415) 452-782</td>
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<td>Environmental Studies</td>
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<td>Geographic Information Systems (GIS)</td>
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<td>Geography</td>
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<td>AS/T-Credit</td>
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<td>Geology</td>
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<tr>
<td>Geographic Statistics</td>
<td>31–44</td>
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<tr>
<td>Engineering and Technology (415) 239-3565</td>
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<tr>
<td>Basic Electronics</td>
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</tr>
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<td>Biotechnology</td>
<td>15–44</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Biotechnology Lab-Assistant</td>
<td>15</td>
<td>AS/Credit</td>
</tr>
<tr>
<td>Computer Aided Design/Architectural</td>
<td>14</td>
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<td>Computer Aided Drafting</td>
<td>13–13.5</td>
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<td>Electronic Engineering Technology</td>
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<td>Engineering</td>
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<tr>
<td>Intermediate Electronics</td>
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<td>Machining Technology Level I</td>
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</tr>
<tr>
<td>Machining Technology Level II</td>
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<td>AS/Credit</td>
</tr>
<tr>
<td>Manufacturing &amp; Fabrication</td>
<td>10</td>
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</tr>
<tr>
<td>Mechanical Engineering Technology</td>
<td>35–40</td>
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<td>Stem Cell Technology</td>
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<td>Sustainability</td>
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<tr>
<td>Welding Technology Level I</td>
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<tr>
<td>Maker Studios (415) 239-3478</td>
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<tr>
<td>Collaborative Design</td>
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<tr>
<td>Maker Studios</td>
<td>18–19</td>
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</tr>
<tr>
<td>Mathematics (415) 239-3478</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>21–24</td>
<td>AS/T-Credit</td>
</tr>
</tbody>
</table>

Growth in Science, Technology, Engineering & Mathematics (STEM)

MECHANICAL DRAFTER  $150K  $118.6K  $71.1K  $55K
BIOMEDICAL ENGINEER  $98.9K
INFORMATION SECURITY ANALYST  $130K

Career Examples

MEDIAN ANNUAL SALARIES (2018)

SOURCE: Annual salaries: Economic Modeling Specialists International (EMSI), May 2018

Find Out More:
- Check out the Science, Technology, Engineering & Mathematics website: www.ccsf.edu/cte/stem.html
- Email a counselor: cteinfo@ccsf.edu
- Call the Career Center: (415) 239-3117
- CCSF Main Campus Multi-Use Building Room 101

Do you enjoy working with forms, design, and patterns? Are you a person who searches for facts and solves problems efficiently?
Transportation

Is your ideal job one that works outdoors, allows you to be physical, and to work with machines? Do you enjoy focusing on the present, physical objects, and practical ideas?

Career Examples

MEDIAN ANNUAL SALARIES (2018)

<table>
<thead>
<tr>
<th>Program</th>
<th>Units Required</th>
<th>AA/AS/Certificate/Credit/Noncredit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircraft Maintenance Technology (AA) 871-0220</td>
<td>40</td>
<td>AS/Cert/Credit</td>
</tr>
<tr>
<td>Aircraft Powerplant Maintenance Technology (AA)</td>
<td>40</td>
<td>AS/Cert/Credit</td>
</tr>
<tr>
<td>Aeronautics Maintenance Technology (AA)</td>
<td>32</td>
<td>AS/Cert/Credit</td>
</tr>
<tr>
<td>Automotive Hybrid &amp; EV Technology</td>
<td>15</td>
<td>Cert/Credit</td>
</tr>
<tr>
<td>Automotive Technician</td>
<td>16</td>
<td>AS/Cert/Credit</td>
</tr>
<tr>
<td>Motorcycle Technician</td>
<td>18</td>
<td>AS/Cert/Credit</td>
</tr>
<tr>
<td>Utility Technician/Helper</td>
<td>5</td>
<td>Cert/Credit</td>
</tr>
</tbody>
</table>

Growth in Transportation

Aeronautics jobs are in demand with an average of 147 openings each year in the San Francisco Bay Area.

Find Out More:

- Check out the Transportation website: www.ccsf.edu/cte/transportation.html
- Email a counselor: cteinfo@ccsf.edu
- Call the Career Center: (415) 239-3117
- CCSF Main Campus Multi-Use Building Room 101

SOURCE: Economic Modeling Specialists International (EMSI), May 2018

SOURCE: Annual salaries: Economic Modeling Specialists International (EMSI), May 2018