



## Catalog Update for 2022-23 College Catalog Last Updated: August 22, 2022

### ***New CSU GE Area Implementation***

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In response to Education Code Section 89032, the CSU system has implemented a new GE Area in **Ethnic Studies, Area F**. Students with catalog rights of Fall '21 or later will be required to fulfill 3 – semester units (4 quarter units) in an approved Ethnic Studies course.

The following is a list of CCSF courses approved for CSU General Education **Area F – Ethnic Studies**:

**African American Studies** +30, +40, +42, 55, +60

**Asian American Studies** 1, +6, +8, +10, +20, +22, +23, +27, +30, +35, +40

**Ethnic Studies** 37

**Interdisciplinary Studies** 37

**Latin American & Latino/a Studies** +1, +2, +9, +10

**Lesbian, Gay, Bisexual & Transgender Studies** +9

*+Effective Fall '21*

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## Programs

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The following programs shall be considered included in the 2022-23 College Catalog, with the effective dates noted below.

Department	Program	Effective Date
Health Care Technology	Associate of Science in Pharmacy Technician- REVISED	Fall 2022
Health Care Technology	Certificate of Achievement in Pharmacy Technician - REVISED	Fall 2022
Health Care Technology	Certificate of Achievement in CVT/Echocardiography Technician - REVISED	Fall 2022
Visual Media Design	Certificate of Achievement in Digital Animation- REVISED	Fall 2022

## HEALTH CARE TECHNOLOGY

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### Associate of Arts in Pharmacy Technician (AS)

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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.
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 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
<b>First Semester</b>	
PHTC 101 Pharmacy Technician I Theory .....	9.0
PHTC 102 Pharmacy Technician I Clinical .....	7.0
<b>Second Semester</b>	
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
<b>Third Semester</b>	
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
<b>Total: .....</b>	<b>44.5</b>

### Pharmacy Technician Certificate of Achievement

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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
<b>First Semester:</b>	
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.	
<b>Second Semester:</b>	
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.	
<b>Total: .....</b>	<b>30.0</b>

## CVT/Echocardiography Technician Certificate of Achievement

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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
<b>Fall Semester</b>	
CVT 101 Cardiovascular Technician.....	3.0
CVT 110 Cardiovascular Skills.....	7.0
ECHO 101 Echocardiography.....	7.0
<b>Spring Semester</b>	
CVT 201 Advanced Cardiovascular Technician.....	4.0
CVT 210A Introductory Echocardiography Professional Practice.....	5.0
ECHO 201 Advanced Echocardiography Technician.....	7.0
<b>Summer Session</b>	
CVT 210B Introductory Echocardiography Professional Practice Work Experience.....	2.0
<b>Fall Semester</b>	
CVT 301 Physics of Cardiac Ultrasound.....	3.0
CVT 310A Intermediate Echocardiography Professional Practice.....	4.0
ECHO 301 Advanced Cardiac Abnormalities.....	5.0
<b>Spring Semester</b>	
CVT 310B Intermediate Echocardiography Professional Practice Work Experience.....	6.5
CVT 410A Echocardiography Professional Practice.....	3.0
ECHO 401 Advanced Echocardiographic Studies.....	6.0
<b>Summer Session</b>	
CVT 410B Echocardiography Professional Experience.....	6.5
<b>Total:.....</b>	<b>69.0</b>

## VISUAL MEDIA DESIGN

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### Digital Animation Certificate of Achievement

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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
<b>Required</b>	
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
<b>Choose one of the following</b>	
ART 132A Beginning Figure Drawing .....	3.0
ART 130B Intermediate Drawing .....	3.0
<b>Choose one of the following</b>	
ART 136A Introduction to Illustration.....	3.0
VMD 168 Visual Development for Animation .....	3.0
VMD 170 Digital Illustration I.....	3.0
<b>Total:.....</b>	<b>19.0 – 21.0</b>