



Catalog Update for 2020-21 College Catalog

Last Updated: February 10, 2021

The following language replaces the Veterans Services Available Benefits on page 44 of the 2020/21 College Catalog:

Veterans Services

The Veterans Services Office is located in Cloud Hall, Room 333. The Veterans Resource Center is located next door in Cloud Hall, Room 332. Please go to the college website at www.ccsf.edu/veterans for more information about Veterans Services.

Veterans, veterans' dependents, and eligible persons may apply online for benefits directly to the VA at www.gibill.va.gov for application and complete details.

Students must also apply for admission to City College of San Francisco online at www.ccsf.edu. For assistance, contact the Office of Admissions and Records, MUB 188.

Available Benefits:

1. GI Bill®* – Active Duty Educational Assistance Program (Chapter 30)
2. Vocational Rehabilitation, Veterans with Service Connected Disabilities (Chapter 31)
3. Post 9/11, (Chapter 33) Detailed chapter 33 information is online at www.gibill.va.gov. Students who believe they may be eligible for chapter 33 should review chapter 33 online and call the Education Call Center (1-888-442-4551) with any questions.
4. Survivors and Dependents of Veterans' (who are either 100% disabled or died due to service-related conditions) Educational Assistance Program (Chapter 35)
5. Selected Reserve Educational Assistance Program (Chapter 1606)
6. Reserve Educational Assistance Program (REAP) Chapter 1607

* GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by the VA is available at the official U.S. government website at <http://www.benefits.va.gov/gibill>.

Please inquire at the VA Web site (www.gibill.va.gov) or at the Veterans Services Office for further details regarding benefits.

Eligible disabled veterans may qualify for Chapter 31 Vocational Rehabilitation Benefits. Disabled veterans are encouraged to contact the main DVA Regional Office for more information at 1-800-827-1000.

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)
9355 – 113th St. N, #7709
Seminole, FL 33775
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

Due to a typographic error, PSYC 15 and 50 were mistakenly listed in the Associate of Science in Liberal Arts and Sciences Emphasis in Science and Mathematics. Corrected program details are published below.

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The Liberal Arts and Sciences degree is designed for students who wish to have a broad knowledge of arts and sciences plus additional knowledge in an “Area of Emphasis.” This degree can be a good option for students planning to transfer to a university as it provides the flexibility for students to satisfy both general education and lower division major requirements for specific universities while meeting associate degree requirements at the same time. For more detailed information on transfer requirements, students should speak with a counselor and refer to www.ASSIST.org.

The courses in the Science and Mathematics emphasis cover the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in Math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra.

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

- Apply scientific inquiry and investigation of evidence to critically evaluate scientific arguments.
- Communicate scientific ideas and theories effectively.
- Apply scientific principles, theories, or models to explain the behavior of natural phenomena.
- Apply scientific knowledge and reasoning to human interaction with the natural world and issues impacting society.
- Apply mathematical concepts through numerical, symbolic, graphical, and verbal methods to interpret quantitative information, solve problems, and communicate results

Each course used to meet this “area of emphasis” requirement must be completed with a grade of “C” or higher (or “Credit” or “Pass” if the course was taken on a “credit/no credit” or “pass/no pass” basis). Where appropriate, courses in the “area of emphasis” may also be counted for a General Education area.

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

Courses Required for the Major in Liberal Arts and Sciences Emphasis in Science and Mathematics

Course..... Units

Complete 18 units from the following courses (at least one each from Science and Math options):

SCIENCE COURSES: CHOOSE AT LEAST ONE:

ANTH 1 Biological Anthropology.....	3.0
ASTR 1 Cosmic Evolution.....	3.0
ASTR 4 Life in the Universe.....	3.0
ASTR 17 Planets.....	3.0
ASTR 18 Stars	3.0
ASTR 19 Galaxies and the Universe	3.0
BIO 9 Human Biology	4.0
BIO 10 Animal Biology	4.0
BIO 11 Science of Living Organisms	4.0
BIO 12 Plant Biology	4.0
BIO 14 Plant Ecology.....	4.0

BIO 15 Biology of HIV	3.0
BIO 19 Ecology	4.0
BIO 20 Introduction to Ecology	3.0
BIO 31L Environmental Science Laboratory.....	1.0
BIO 32 Marine Biology	3.0
BIO 32L Marine Biology Laboratory.....	1.0
BIO 33 Introduction to Conservation Biology.....	3.0
BIO 40 Plants and Animals of California.....	3.0
BIO 51 Introduction to Genetics.....	3.0
BIO 61 The Biology of Cancer	3.0
BIO 100A General Biology.....	5.0
BIO 100B General Biology.....	5.0
BIO 106 Introduction to Human Anatomy and Physiology	4.0
BIO 108 General Human Anatomy	4.0

BIO 111 .6 89n.5 (.)0n.5 (.)hney2-2.6 (.)0..5 (G)0.6 (en)6.1 (er)-1.3 (al)1.5 ()0.5 (H)4.5 (um)1.7 (a)6.1 (n)0.6 (A)3.3 (nat)3.6
)3.4(nat)3.6(om)7.7(y)-2()0.5(and)0o0.5(.)0.5Myc(an91.7(an)0.5(A)3b)7.7(y)l.c0D5f5(.591E.(.)0.6(6(duc)Tj-0.002Tc0.002Tw0.1680Td5[.].0.6



PSYC 50 Psychology of Psychoactive Drugs.....	3.0
Choose 9 units from the following	
ADMJ 65 Criminal Justice, Drugs, Crime and the Law.....	3.0
ANTH 8 Magic, Witchcraft, and Religion	3.0
HLTH 30 Drugs, Health, and Society.....	3.0
LALS 11 Drug Wars in the Americas	3.0
Total:	18.0

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The Social Work degree is designed to prepare students for transfer into the CSU system and employment in the human services field. Social Work is an applied behavioral science and focuses on the essential information for understanding and critically analyzing behavior, social forces and conditions in diverse environments. Students will gain essential skills and hands-on experience in providing human services. The program will enable students to develop an analysis of how social conditions contribute to inequality and the need for social services.

Learning Outcomes

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

- Critique major theories related to the understanding of social problems and social welfare policy.
- Apply various methods of inquiry including statistical analysis to examine social welfare issues.
- Apply the biopsychosocial model to understand real life experiences of persons from diverse backgrounds.

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

Assuming students start this AA-T program with transfer-level math and English eligibility, the minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester. Students must complete a minimum of 3 of 7 required courses at City College of San Francisco.

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HIST 17A United States History to 1877	3.0
HIST 17B The United States.....	3.0
PSYC 10 Abnormal Psychology	3.0
PSYC 21 Lifespan Development	3.0
HLTH 30 Drugs, Health, and Society.....	3.0
SOC 3 Social Problems	3.0
Total:	30.0 – 31.0

BROADCAST ELECTRONIC MEDIA ARTS

This certificate program is designed to prepare students in Broadcast Electronic Media Arts to engage in the world of entrepreneurship. The program’s interdisciplinary approach to entrepreneurship equips students with relevant tools in exploring various pathways to entrepreneurship such as full-time business ownership, sub-contracting (freelancing), consulting, corporate intrapreneurship or mission-driven social entrepreneurship.

Students will utilize common tools and techniques to create effective and engaging internet content. They will be able to conceptualize, produce, and deliver meaningful multimedia material. Those who complete this program can apply for entry level social media positions or media content creator positions, or use these skills to improve their creative portfolio and express opinions effectively in online campaigns.

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

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

Courses Required for the AS-T in Business Administration

Course.....	Units
Required courses:	
ACCT 1 Financial Accounting	5.0
ACCT 2 Managerial Accounting.....	5.0
ECON 3 Principles of Microeconomics	3.0
ECON 1 Principles of Macroeconomics.....	3.0
BSL 1 Business Law I	3.0
Choose one of these statistics options:	
ECON 5 Introductory Statistics for Economics, Business and Social Sciences.....	5.0
LALS 5 Introduction to Statistical Methods in Latin American and Latino/a Studies	5.0
MATH 80 Probability and Statistics.....	5.0
PSYC 5 Statistics for Behavioral Sciences.....	5.0
Select TWO among the following courses:	
GNBS 119 Introduction to Business	3.0
and One of the following computer courses:	
MABS 60 Introduction to Computer Applications for Business.....	3.0
CNIT 100 Intro to Computers Using PC's.....	3.0
Total:	30.0

The Business Communication certificate provides essential skill development in workplace communication. Students strengthen skills in written, verbal, and digital communication for business settings.

Learning Outcomes

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

- Produce well-organized business correspondence with a minimum of grammatical and formatting mistakes.
- Generate authentic and compelling text for business use on various digital platforms.

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

Courses Required for the Certificate of Completion in Business Communication

Course.....	Hours
Required courses:	
BOSS 4500 Business English I.....	45.0
BOSS 4501 Business English II.....	45.0
BOSS 4510 Business Communications	45.0
Total:	180.0

This certificate program is designed to prepare Business students to engage in the world of entrepreneurship. The program’s interdisciplinary approach to entrepreneurship equips students with relevant tools in exploring various pathways to entrepreneurship such as full-time business ownership, sub-contracting (freelancing), consulting, corporate intrapreneurship or mission-driven social entrepreneurship.

Learning Outcomes

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

- Apply an entrepreneurial mindset that breeds business creativity and innovation.
- Use terms and concepts related to functional areas of entrepreneurship necessary for startups.
- Analyze the marketing environment to identify entrepreneurial opportunities and areas for growth and development.
- Develop an agile and lean business plan for startup project/enterprise that is ready for pitching.
- Compare different entrepreneurship pathways in relation to a project or business idea.

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

Courses Required for the Certificate of Achievement in Entrepreneurship and Innovation in Business

Course..... Units

Required Courses

ENTR 101 Introduction to Entrepreneurship.....	3.0
ENTR 102 Applied Design Thinking for Entrepreneurship	1.5
DSGN 105 Design Thinking	1.5
MRKT 140 Introduction to Marketing	3.0

Business (Choose a minimum of 9 units from the following courses)

BSL 1 Business Law I	3.0
GNBS 119 Introduction to Business	3.0
MGT 231 Introduction to Supervision and Management	3.0
MABS 60 Introduction to Com.4 ()3.6 (o.6 (.)0.56 (odu)6.1 (o (.)08 ppl(i)4.1 (i)1.5 (c)-2a (t)3.6 (i)1.4 (ne)6.1 (s1-0.9 ()0.5 (f)3	

of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of “C” or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

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

Courses Required for the AA-T in Communication Studies

Course.....	Units
Required course:	
CMST 1A Elements of Public Speaking	3.0
List A Choose 2 courses (6 units)	
CMST 3 Argumentation and Debate.....	3.0
CMST 4 Group Communication.....	3.0
CMST 20 Interpersonal Communication.....	3.0
List B Choose 2 courses (6 units)	
CMST 2 Introduction to Rhetorical Criticism.....	3.0
CMST 5 Intercultural Communication.....	3.0
CMST 7 Oral Interpretation of Literature	3.0
CMST 38 Forensics Competition.....	3.0
Any course not selected from List A	
C List Choose 1 course (3 units)	
ANTH 3 Introduction to Social and Cultural Anthropology.....	3.0
CMST 8 Rhetoric of Popular Culture	3.0
ENGL 1B Writing about Literature	4.0
ENGL 1C Writing about Nonfiction	4.0

positions in network administration and be able to prepare for the Cisco Certified Entry Networking Technician (CCENT) and the Cisco Certified Network Associate (CCNA) certification exam.

Learning Outcomes

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

- Compare OSI and TCP/IP networking models and their related protocols
- Explain the importance of addressing and naming schemes of various layers of data
- Compare and configure various internal routing protocols
- Analyze, configure, and troubleshoot switch configurations including LANs and VLANs
- Describe and configure a variety of WAN protocols in routers
- Define basic network security issues and possible solutions

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

Courses Required for the Certificate of Achievement in Routing and Switching (Cisco)

Course..... Units

Required courses:

CNIT 103 Computer Hardware	3.0
CNIT 201C Introduction to Cisco Networks	3.0
CNIT 202C Routing and Switching Essentials.....	3.0
CNIT 203C Scaling Networks	3.0
CNIT 204C Connecting Networks.....	3.0
CNIT 120 Network Security	3.0
CNIT 417 Administering Windows Server 2016	3.0
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BTEC 108A Practical Mathematics for Laboratory Science	2.0
BIO 11 Science of Living Organisms	4.0
CMST 1A Elements of Public Speaking	3.0
CHEM 32 Introduction to Medical Chemistry	4.0

Choose one of the following courses:

BTEC 4 Introduction to Biotechnology	3.0
BTEC 5 Briefings in Biotechnology	1.0

Choose 2 units from the following electives:

BTEC 20 Mammalian Cell Culture	3.0
BTEC 22 Enzyme Linked Immunosorbent Assay (ELISA)	0

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and BTEC 21E Advanced Stem Cell Internship Support.....	4.0
BTEC 14A Biotechnology Laboratory Techniques	3.0
BTEC 20 Mammalian Cell Culture	3.0
BTEC 21A Mammalian Cell Culture.....	2.0
BTEC 21B Fluorescent Cell Technology	2.0
BTEC 21C Stem Cell Technology.....	3.0
BTEC 22 Enzyme Linked Immunosorbent Assay (ELISA)	1.0
BTEC 23 Western Blotting Techniques	1.0
BTEC 24 Introduction to PCR	1.0
BTEC 25 Analytical PCR Technology.....	1.0
BTEC 115 Recombinant DNA Biotechnology.....	5.0
BTEC 120 Cell Biotechnology.....	5.0
Total:	21.0 – 24.0

ENGLISH AS A SECOND LANGUAGE

The Guided Pathway ESL Milestone Certificate in Child Development is designed as an on-

CDEV 66 Introduction to Early Childhood Curriculum	3.0
CDEV 67 Child, Family, and Community	3.0
Total:	18.0

ENVIRONMENTAL HORTICULTURE AND FLORISTRY

Sogetsu Ikebana is offered in cooperation with the Sogetsu Ikebana, Soho Study Group, Ikebana International, Japan Ministry of Education, The American Institute of Floral Designers, San Francisco Bay Area Master Florists Association and California State Florists Association.

This two-year course of study is designed to give students thorough and well-balanced training in buying flowers, and the art of arranging in the Sogetsu Style.

This curriculum satisfactorily qualifies individuals to teach Sogetsu Ikebana on a private level.

The course of study includes instruction in beginning, intermediate and advanced levels of the Sogetsu curriculum under the guidance of experienced instructors. Students who complete the curriculum and other graduation requirements receive the Environmental Horticulture/Floristry, Certificate of Accomplishment-Sogetsu and qualifies the student to apply for a level 5 Sogetsu School Certificate.

Learning Outcomes

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

- Arrange Oriental style floral projects proficiently and artistically.
- Identify, select, and purchase plants and flowers appropriate for oriental floral design projects.
- Identify and execute oriental arrangement styles and communicate the interpretive meanings and applications.

The minimum time for completion of this 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 Oriental Floral Design

Course.....	Units
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Required courses:

R F 85A Introduction to Floral Design Spring	2.0
R F 86A Beginning Oriental Flower Arrangement	2.0
R F 82 Interior Plant Identification.....	3.0

Learning Outcomes

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

- Interpret and apply a fashion production pattern.
- Construct multiple types of garments from a wide variety of fabrics.
- Analyze and apply the appropriate order of construction, techniques, and equipment to complete a variety of garments.
- Employ appropriate

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

Courses Required for the Certificate of Achievement in Entrepreneurship and Innovation in Fashion Design and Merchandising

Course.....	Units
Required Courses:	
ENTR 101 Introduction to Entrepreneurship.....	3.0
ENTR 102 Applied Design Thinking for Entrepreneurship	1.5
DSGN 105 Design Thinking	1.5
MRKT 140 Introduction to Marketing	3.0
Fashion Design and Merchandising	
FASH 45A Personal Styling	3.0
FASH 48 Fashion Show Production	4.0
FASH 54A Fashion Styling	3.0
Total:	19.0

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The Fashion Design Associate degree builds on the Fashion Design Certificate, adding required general education courses. The Design degree gives students a strong basis in design concepts, industry terminology, clothing construction, presentations, and illustration techniques. Fashion design training can lead to careers as fashion illustrators, designers, technical designers, patternmakers, product developers, and entrepreneurs. With the additional general education courses, students will enhance their writing and social awareness skills.

Learning Outcomes

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

- Create fashion garments from initial design concept to final product.
- Analyze and select appropriate raw materials and techniques for fashion products.
- Relate the history and social context of fashion to the current fashion zeitgeist.
- Apply technical and professional skills expected of an employee or an entrepreneur in the fashion industry.

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

Students are encouraged to apply for both the Fashion Design Certificate of Achievement and the AS degree.

Courses Required for the Major in Fashion Design

Course.....Course

- Communicate using standard fashion terminology and references to fashion icons and designers, and visually through styling methods.
- Create and present digital mood boards.
- Assemble and maintain a fashion styling kit.
- Create a digital and printed styling portfolio for entrepreneurial business and entry-level employment.

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

Courses Required for the Certificate of Achievement in Fashion Styling and Personal Styling

Course.....	Units
Fall semester first year required courses:	
FASH A Introduction to Sewing	1.0
FASH 45A Personal Styling	3.0
FASH 57 Fabric Glossary	1.0
Spring semester first year required courses:	
FASH 45B Advanced Personal Styling	3.0
FASH 53 Fashion Forecasting	3.0
FASH 54A Fashion Styling	3.0
Fall semester second year required courses:	
FASH 54B Advanced Fashion Styling	3.0
FASH 60 Fieldwork Fashion Shows and Events	1.0
FASH 62 Work Experience in Personal Styling	1.0 - 3.0
Total:	19.0 – 21.0

The Patternmaking Certificate of Achievement prepares students to create patterns for a variety of garments that meet industry standards for production. Students learn different methodologies of developing patterns from sketches or samples. The certificate prepares students for employment, creative fulfillment, or entrepreneurship.

Learning Outcomes

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

- Create:pl7Tc 0 Tw 1co:

Spring semester choose one of the following courses:

FASH 67A Computerized Pattern Development: PAD 3.0

or FASH 67B Computerized Pattern Development: Gerber 3.0

Total: **234e8a .001 Tw 0.159489 0 Td**

Fourth Semester

PSYC 1 General Psychology	3.0
HCT 104 Phlebotomy Technician	5.5
Total:	48.5

This program is designed to introduce the student to the clerical duties of the hospital unit coordinator. The unit coordinator serves as the liaison between the hospitalized patient and the medical professionals in an acute care or other medical facility environment. Students will gain the knowledge and communication skills necessary for this entry-level position.

Learning Outcomes

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

- Describe the various health care departments and delivery systems.
- Explain the role and responsibilities of the hospital unit coordinator.

- Describe the procedure for applying for the phlebotomy certifying exam and license.

The minimum time for completion is 4-6 semesters. Completion time will vary based on student preparation and number of units, major and GE, completed per semester.

Courses Required for the Major in Medical Assisting

Course..... Units

Choose one of the following Anatomy and Physiology options:

OPTION 1:

BIO 106 Introduction to Human Anatomy and Physiology 4.0

OPTION 2:

BIO 108 General Human Anatomy 4.0

AND choose one of the following Physiology options:

BIO 111 Human Physiology 5.0

BIO 112 Introduction to Human Physiology 4.0

First Semester:

HCT 61 Introduction to Health Care..... 2.0

HIT 50A Medical Terminology I..... 3.0

HCT 67 Computer Applications in the Health Care Setting..... 2.0

EMT 14 First Aid and Cardiopulmonary Resuscitation 3.0

MED 55 The Electronic Health Record 3.0

MED 56 Administrative Procedures 3.5

Second Semester:

HIT 50B Medical Terminology II..... 2.0

HIT 57 Disease Process 3.0

HIT 76 CPT Coding..... 3.0

MED 49 Clinical Procedures 5.5

MED 62 Communication and Professionalism in Health Care 2.0

MED 70 Medical Insurance Billing 2.0

MED 71 Electronic Management of Financial Medical Records..... 2.0

Summer Session:

HCT 82 Professional Practice Internship/ Certification..... 5.0

Third Semester:

HIT 73A ICD-10-CM Coding 3.0

HIT 75 Organization and Management in Health 3.0

MED 73 Advanced Medical Manager 1.5

PSYC 1 General Psychology 3.0

HCT 104 Phlebotomy Technician 5.5

Total: 61.0 – 66.0

The certificate in Medical Office Assisting provides students with both clinical and administrative training. Students who complete their training satisfactorily are prepared to hold positions as a medical assistant, medical receptionist, or office manager in a physician’s office, hospital outpatient clinic, medical clinic, and health centers. The Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 9355-113th St. N., #7709 Seminole, FL 33775, (727) 210-2350, www.caahep.org, on recommendation of the Medical Assisting Education Review Board (MAERB). Graduates who complete the Certificate of Achievement are eligible to take the Certified Medical Assistant examination given by the American Association of Medical Assistants (AAMA).

- Use computer applications to create documents and perform medical record and billing activities.
- Practice infection control and adhere to OSHA and HIPAA regulations.
- Receive, communicate with, and support patients and staff.
- Collaborate in a culturally diverse health care environment and apply the principles of health care ethics and professional conduct with patients, staff, and the community.
- Compare the various certification exams for medical assistants.
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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.
- Apply for a license as a Pharmacy Technician to the California State Board of Pharmacy.
- Apply to take the Pharmacy Technician Certification Board National examination.

To be considered for admission to the program, applicants must:

1. Complete the pre-requisites to the program: MATH 60 or placement into MATH 80+80S or higher and ENGL 88 or ESL 188 or readiness for college-level English.
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

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.

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.

*NOTE--*While students have some choice in how to fulfill their General Education and graduation requirements, the Pharmacy Technician Program recommends the following course work to be completed: ENGL 1A or ENGL 1A+1AS and MATH 80 or MATH 80+80S or ECON 5 or PSYC 5 or LALS 5. It is also suggested that ASAM 20 or LALS 1 or AFAM 60 or HIST 12B are taken prior to degree completion.

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

Courses Required for the Major in Pharmacy Technician

Course.....	Units
First Semester	
PHTC 101 Pharmacy Technician I Theory	9.0
PHTC 102 Pharmacy Technician I Clinical.....	7.0
Second Semester	
PHTC 103 Pharmacy Technician II Theory	9.0
PHTC 104 Pharmacy Technician II Clinical.....	5.0
EMT 12 Basic Life Support for Healthcare Providers	0.5

Third Semester

BIO 108 General Human Anatomy 4.0

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

Learning Outcomes

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

- Integrate scientific concepts of biology and chemistry related to the functioning of the nutrients in the human body.
- Apply knowledge of metabolism and nutrient functions, food sources, and physiologic systems to communicate evidence-based nutrition information.
- Analyze the relationship between diet, lifestyle, and health outcomes within the framework of the social determinants of health.

The Associate in Science in Nutrition and Dietetics for Transfer degree (AS-T in Nutrition and Dietetics) is open to all students who are admitted to City College of San Francisco and have satisfied any prerequisites required for classes listed in the major.

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

Courses Required for the AS-T in Nutrition and Dietetics

Course..... Units

Required Core:

BIO 134 Introduction to Nutrition for Health Sciences 3.0

also provides skills in leadership development, facilitation and conflict resolution. The certificate is based on public health principles from an equity perspective to support students in working within their own diverse communities.

Learning Outcomes

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

- Integrate public health and equity principles and perspectives to support the health of diverse communities
- Assess and integrate professional

Courses Required for the Certificate of Achievement in Music and Technology

Course.....	Units
Required Courses	
MUS 100 Music Fundamentals.....	3.0
MUS 29 Electronic Music I.....	3.0
MUS 30 Electronic Music II.....	3.0
BCST 119 Digital Media Skills.....	3.0
BCST 120 Audio Production.....	4.0
MUS 128 Survey of Contemporary and Electronic Music.....	3.0
Total:	19.0

THEATER ARTS

The Technical Theater Production Certificate with a concentration in stagecraft or costume and makeup is designed to prepare students for entry level occupations as a theater technician in educational, community, and resident theater venues. Technical theater technicians may work on set construction, carpentry, lighting design, light board operation, stage lighting, scenery, costumes, props, and various degrees of entry level management positions, such as hours management and stage management. This program is designed to prepare individuals who work in technical production areas with a range of skills, enabling them to select, adapt and transfer skills to different work situations throughout their career in technical theater. This program prepares students, through coursework and hands on experience, for work in technical theater. The certificate includes a wide range of topics designed to give students basic skills and knowledge to work behind the scenes in theater and other venues.

Career opportunities available to someone completing a technical theater certificate include lighting designer, lighting operator, scenic painter, stage/set designer, stage manager, costume/make-up assistant, costume/make-up designer, or stage hand.

Learning Outcomes

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

- Collaborate with other design and crew members in theatrical productions.
- Apply fundamental techniques of stagecraft when participating in the backstage functions of a performance.
- Construct theatrical elements using common materials and techniques.

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

Courses Required for the Certificate of Achievement in Technical Theater Production

Course.....	Units
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Required courses

TH A 30 Introduction to Theatre.....	3.0
TH A 150A Beginning Acting Fundamentals.....	3.0
TH A 61 Technical Theatre Production.....	1.0 3.0

Choose either the Stagecraft Concentration (10 units) or the Costume and Makeup Concentration (9 units):

Stagecraft Concentration (10 units)

TH A 60 Stagecraft.....	3.0
TH A 62 Introduction to Stage Design.....	3.0
TH A 63 Introduction to Lighting Design.....	4.0

Or

Costume and Makeup Concentration (9 units)

TH A 80 Introduction to Costume Design.....	3.0
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VISUAL MEDIA DESIGN

This certificate program is designed to prepare Visual Media Design students to engage in the world of entrepreneurship. The program's interdisciplinary approach to entrepreneurship equips students with relevant tools in exploring various pathways to entrepreneurship such as full-time business ownership, sub-contracting (freelan3 (a)6.1 (c)dhe

PSYC 17 Psychology of Eating, Food, and Weight.....	1.0
PSYC 25 Psychology of Gender.....	3.0
SOC 25 Sex and Gender in the U.S.	3.0
SOC 35 Sex, Marriage, and Family Relationships	

