



Cypress College

Catalog

2018–2019

Addendum

January 14, 2019

REVISED**Credit by Examination**

The basic purpose of Credit by Examination is to allow unit credit, for prior or advanced knowledge of class material. Credit by Examination is also considered “challenging a course.” Students may request a challenge of subject matter in which they are especially qualified through previous training or experience. Examinations will be sufficiently comprehensive to determine if the student has essentially the same knowledge and skills as a student who successfully completes the course.

Credit by Examination is available under the regulations listed below:

1. Students must be currently enrolled at Cypress College in a course other than the course being challenged.
2. Students must contact the division office to obtain the courses that can be challenged.
3. Credit by Examination may be taken only for a course listed in the catalog of the community college the challenged course is offered.
4. Students should read the course description in the catalog to gain understanding of the class content.
5. Students can receive credit for a maximum of **fifteen** semester units.
6. A previous enrollment or audit for a course, a grade (including a W) prevents a challenge.
7. Prior credit or advanced placement cannot have been previously received.
8. Credit by Examination is not intended to replace make-up examinations for college courses not completed or courses taken in high school.
9. Less advanced courses cannot be challenged if they are considered lower in degree than those already taken.
10. Students may challenge a course only once.
11. Students must pay appropriate enrollment and health fees prior to taking the examination. Fee waivers do not cover Credit by Examination fees.
12. Credit by Examination will not be posted to the transcript until all fees or holds have been resolved.
13. Credit by Examination is graded on a Pass/No Pass basis. If students choose to have passing results recorded on their permanent record, the Pass (P) grade and the unit value will appear with a notation indicating the credit was obtained by Credit by Examination.

Note: A Pass/No Pass option should be discussed with a counselor if a student is planning to transfer to a four-year institution. Many transfer institutions do not accept Credit (CR) or Pass (P) grades for major, minor and general education requirements.
14. Some of the courses challenged may be taken for a letter grade and will be posted to the student's permanent record with a notation that the credit was obtained by Credit by Examination; however, it will not count towards the twelve residency units required by Cypress College to earn an associate degree.

To initiate a petition for Credit by Examination, students must confer with the instructor and division dean no later than the eighth week of the semester. Criteria for petition approval will be determined by the division. General guidelines will include evidence of previous learning experience and evidence to indicate probable success in the examination.

If it is determined that a student's prospects for examination success are satisfactory, the student must obtain the signatures of the instructor and dean on the Credit by Examination petition. The student must submit the completed petition to the division dean no later than the end of the eighth week of the semester. The time and place of the examination, its content and the arrangement for its administration are determined by the division. The appropriate fees must be paid prior to the examination. The examination must be given before the end of the semester and students must contact the division for the examination results.

The following courses may be challenged by examination:

Aviation and Travel Careers See Department Program Director	MATH 150BC Calculus II
Dental Assistant Courses See Department Program Director	MATH 250AC Multivariable Calculus
Dental Hygiene Courses See Department Program Director	MATH 250BC Linear Algebra/Differential Equations
Health Info Tech Courses See Department Program Director	Mortuary Science Courses See Department Program Director
Health Science Courses See Division Dean	Nursing Courses See Department Program Director
MATH 130 C Survey of Calculus	KIN 284 C Contemporary Personal Health
MATH 150AC Calculus I	Psychiatric Tech Courses See Department Program Director

REVISED**OCCUPATIONAL CERTIFICATE REQUIREMENTS**

Certificates do not require general education course work. Requirements for Certificate Programs for the 2017–2018 Catalog Year include:

- Submission of an Application for Certificate in the Admissions and Records Office.
- Completion of specific program courses listed in the catalog with a minimum grade of “C.”
- Completion of at least 50% of the required courses at Cypress College.

Students may submit an application for multiple certificates per term providing requirements are met. A catalog academic year must be specified on the application. The catalog year will be used to determine if all certificate requirements have been met. **NOTE:** Specific course requirements for Certificates are listed in applicable sections of the catalog.

ACCOUNTING

Accounting

AIR CONDITIONING AND REFRIGERATION

Air Conditioning and Refrigeration

Air Conditioning and Refrigeration Project Management

Air Conditioning Building Commissioning

Air Conditioning Codes and Estimating

Air Conditioning Environmental Controls

Air Conditioning Customer Service

Commercial Air Conditioning

Commercial Refrigeration

Heat Pump

ART

See Media Arts Design/Multimedia

AUTOMOTIVE COLLISION REPAIR

Advanced Collision Repair Paint Technician

Advanced Collision Repair — Structural Technician

Auto Collision Facility Production Manager

Automotive Collision Center Damage Appraiser

Automotive Collision Center Office Management

Automotive Collision Repair

Automotive Damage Appraisal

Automotive Paint and Refinishing

Collision Repair Automotive Sales and Services

Collision Repair Body Technician

Collision Repair Center Parts Manager

Collision Repair I-Car Gold

Collision Repair Mechanical Technician

Collision Repair Paint Application Specialist

Collision Repair Technician Assistant

Detail Technician

Insurance Co/Auto Collision Repair Industry Management

AUTOMOTIVE TECHNOLOGY

Automotive Sales and Service

Automotive Technology

Automotive Technology Electrical Diagnostic Specialist

Automotive Technology Maintenance Technician

Automotive Technology — Toyota Specialist

Automotive — T-Ten Air Conditioning Specialist

Automotive — T-Ten Brake and Alignment Specialist

Automotive — T-Ten Electrical

Automotive — T-Ten Engine and Driveline Specialist

Automotive — T-Ten Performance and Driveability Specialist

Automotive — T-Ten Toyota and Lexus Specialist

Brake and Alignment Specialist

Emission Control Specialist

Engine Specialist

Performance and Driveability Specialist

Transmission Specialist

AVIATION AND TRAVEL CAREERS

Advanced Airline Customer Services

Advanced Flight Attendant

Advanced Travel/Tourism

Aviation I — Private Pilot

Aviation II — Instrument Pilot

Aviation III — Commercial Pilot

Aviation IV — Advanced Pilot

Aviation Management

Basic Airline Customer Services

Basic Airport Operations

Basic Cruise Line Sales and Operations

Basic Flight Attendant

Basic Tourism and Conference Management

Basic Travel — Tourism

Homeland Transportation Security

BUSINESS

Business Management

Retail Management (W AFC)

Small Business Operations

Small Business Management

COMPUTER INFORMATION SYSTEMS

Advanced Networking

Cisco Networking

Computer Forensics

Computer and Office Applications

Computer Programming

Computer Software and Application

Cyber Defense

Cybersecurity

Database Management

Game Programming

Java Programming

Microsoft Networking

Mobile Application Development

Network Virtualization

Office Assistant

PC/Network Hardware Support

Technology Management

Visual C Programming

Web Development

Web Networking Technology

Web Programming

COURT REPORTING AND LEGAL CAREERS

Captioning
 CART* (Communication Access Realtime Translation)
 Computer Editor (Scopist)
 Court and Agency Services
 Court Reporting
 Court Reporting Technology
 Hearing Reporter
 Legal Administrative Assistant
 Legal Transcription
 Proofreading

DANCE

Dance Teaching

DENTAL

Registered Dental Assisting

DIAGNOSTIC MEDICAL SONOGRAPHY

Diagnostic Medical Sonography

ECONOMICS

Business Economics

ENERGY SUSTAINABLE TECHNOLOGIES

*Geothermal Energy
 *Solar Energy
 Sustainable Energy
 *Wind Energy

GEOGRAPHY

Geographic Information Systems
 Geographic Information Systems/Marketing

HOTEL, RESTAURANT, CULINARY ARTS

Baking Fundamentals
 Baking and Pastry Arts
 Culinary Arts
 Culinary Fundamentals
 Food and Beverage Management
 Food Service Fundamentals
 Hospitality Management
 Hotel Fundamentals
 Restaurant — Lodging Entrepreneur
 Special Event Management

HUMAN SERVICES

Addiction Studies
 Criminal Justice
 Conflict Resolution
 Family Studies
 Gerontology
 Human Services Generalist
 Victimology

KINESIOLOGY (FORMERLY PHYSICAL EDUCATION)

Aquatics Specialist
 Athletic Coach
 Fitness Specialist
 Recreation Assistant

MANAGEMENT AND MARKETING

Marketing
 Professional Marketing
 Project Management
 Social Media Marketing

MEDIA ARTS DESIGN

Animation 2D Computer Graphics
 Animation 3D Computer Graphics
 Computer Graphics
 Digital Cinema Arts and Industry
 Digital Cinema Production
 Digital Cinema Techniques and Technologies
 Electronic Publishing Design
 Multimedia Production Basics
 Post Production Basics for Cinema and Video
 Vector Illustration

MERCHANDISING

Merchandising

MULTIMEDIA

Multimedia Art

MUSIC

Commercial Music Management
 Recording Arts

PHOTOGRAPHY

Advertising and Illustrative Photography
 Creative Photo Arts
 Digital Photo Technician
 Digital Photography
 Photography
 Portrait and Wedding Photography

PSYCHIATRIC TECHNOLOGY

Psychiatric Technology

RADIOLOGY

Imaging Technologist Assistant
 *Radiologic Technology

THEATER

Acting and Film Video Production
 Costume/Makeup Design
 Lighting/Audio Design
 Musical Theater Performance
 Technical Theater

UNMANNED AIRCRAFT VEHICLES (UAV)**UNMANNED AIRCRAFT SYSTEMS (UAS)**

Advanced UAV/UAS
 Basic UAV/UAS
 UAV/UAS
 UAV/UAS Drone Photography and Video

* Students must have previously earned an Associate Degree to be eligible for these certificates.

Students with disabilities requiring accommodations on state or national examinations should contact the department coordinator for further information. Requests for accommodations should be made prior to applying for any licensing or certification examination.

REVISED**Occupational Degree**

The Occupational Degree is designed for individuals who desire an Associate in Arts or Associate in Science Degree with an occupational major. This degree may include transfer and/or non-transfer course work (see Course Numbering section for description of transfer and non-transfer course work) and includes completion of major requirements.

Requirements for the Occupational Degree include:

- Completion of 25 units of general education from the Cypress Native GenEd pattern;
- Three (3) units of Cultural Diversity. These units must be chosen from the Cultural Diversity list;
- Completion of Reading Proficiency requirement;
- Completion of Major courses listed in the catalog with a minimum grade of “C.” A minimum of 50% of these courses must be completed at Cypress College.
- Completion of additional degree-applicable classes for a total of 60 units (see Non-Degree Credit Courses for description of classes that are non-degree applicable);
- A 2.0 (C) overall GPA.

Occupational Degrees Offered by Cypress College are:

Accounting
 Air Conditioning and Refrigeration
 Airline Customer Services
 Art — Graphic Design
 Automotive Collision Repair
 Automotive Technology
 Aviation Management
 Baking and Pastry Arts
 Business Management
 Career Technical Education — Aviation
 Career Technical Education — Homeland Security
 Career Technical Education — Tourism
 Commercial Pilot
 Computer and Office Applications
 Computer Information Systems
 Computer Programming
 Court Reporting
 Culinary Arts
 Cyber Defense
 Dance
 Dental Hygiene
 Diagnostic Medical Sonography
 Energy and Sustainable Technologies
 Flight Attendant
 Food and Beverage Management
 General Studies: Fine Arts
 Health Information Technology
 Human Services
 Kinesiology (formerly Physical Education)
 Law Office Administration
 LVN to RN
 Marketing
 Merchandising

Mortuary Science
 Music
 Photography
 Pre-Engineering
 Psychiatric Technology
 PT to RN
 Radiologic Technology
 Registered Dental Assisting
 Registered Nursing
 Retail Management (WAFC)
 Small Business Management
 Theater Arts
 Theater Arts Production
 Travel/Tourism
 UAV/UAS

Liberal Arts Degrees with a Specified Department/Area Major:

African American Studies (see Ethnic Studies)
 Anthropology
 Business
 Chicana/o Studies (see Ethnic Studies)
 Ethnic Studies
 Geography
 Liberal Arts with Emphasis
 Philosophy

REVISED**AA-T or AS-T Majors Offered by Cypress College for 2018–2019 are as follows**

(Note: Additional ADTs are currently in development):

Administration of Justice
 Anthropology
 Art History
 Biology
 Business Administration
 Chemistry
 Communication Studies
 Economics
 Elementary Teacher Education
 English
 Film, Television and Electronic Media
 Geography
 Geology
 History
 Journalism
 Kinesiology
 Mathematics
 Music
 Philosophy
 Physics
 Political Science
 Psychology
 Public Health
 Sociology
 Spanish
 Studio Arts
 Theater Arts

REVISED



CYPRESS COLLEGE
2018-2019

CYPRESS COLLEGE NATIVE (LOCAL) GENERAL EDUCATION REQUIREMENTS

Student's Name: _____ ID#: @ _____ Date: _____

Degree: A.A. _____ A.S. _____ Major _____ Counselor _____

Associate Degree Requirements: Includes fulfillment of both the cultural diversity and reading requirements, major course-work toward an occupational degree (AA or AS), completion of 60 degree eligible units with a minimum grade point average of 2.0 and satisfaction of a minimum of 25-unit general education requirement as described in the following list. Courses taken for general education must be on the native AA/AS General Education list at the time they are taken. Students should check with their counselor in planning completion of General Education requirements.

(Check boxes accordingly) LEGEND: C=Completed IP=In Progress R=Remaining

		6-UNIT MINIMUM	AP CREDIT or OTHER COLLEGE COURSE(S)	C	IP	R
	CATEGORY A. LANGUAGE AND RATIONALITY Written Communication must be completed with a grade of "C" or better.					
A1	WRITTEN COMMUNICATION: 3 Unit Minimum ENGL 100C [□] (100HC [□])					
A2	ANALYTICAL THINKING: 3 Unit Minimum COMM 050C, 100C [□] (100HC [□]), 135C CIS 111C ENGL 103C ^{**□} (103HC ^{**□}), 104C ^{**□} (104HC ^{**□}), 106C ^{**} , 135C PHIL 170C, 172C, 175C (begin F17)					
	CATEGORY B. NATURAL SCIENCES AND MATHEMATICS Mathematics must be completed with a grade of "C" or better.	6-UNIT MINIMUM				
B1	LIFE SCIENCES AND PHYSICAL SCIENCES: 3 Unit Minimum ANTH 101C [□] (101HC [□]), 101LC, 210C ASTR 116C [□] /117C [□] (116HC [□] /117HC [□]) BIOL 101C [□] (101HC [□]), 102C, 103C, 107C, <u>111C/112C</u> , <u>113C/114C</u> , 122C, 160C, 174C, 175C, 210C, <u>230C</u> , 231C(begin F06), 241C(begin F06), 276C(begin F16), 277C(begin F16), 278C(begin F16) CHEM 100C, 101C, 103C, 104C, 107C, 111AC, 111BC, 201C(begin F15) GEOG 102C/102LC,140C GEOL 100C [□] /101C (100HC [□])/101C, 100C [□] /115C (100HC [□])/115C, 103C, 105C, 120C, 125C, 130C/131C, 190C PHSC 104C PHYS 130C, 201C, 210C, 211C, 221C PSY 221C [□] (begin F18)					
*B2	MATHEMATICS: 3 Unit Minimum (Courses need a prerequisite of Elementary Algebra or higher) MATH 030C(begin F09), 038C, 040C, 041C,100C,110C, 115C, 120C [□] , 130C, 141C, 142C, 150AC, 150BC, 250AC, 250BC PSY 161C [□] (161HC [□]) SOC 161C [□] (161HC [□])					
	CATEGORY C. ARTS AND HUMANITIES	6- UNIT MINIMUM				
C1	ARTS: 3 Unit Minimum ART 100C, 110C, 111C, 112C [□] (112HC [□]), 114C, 120C,123C, 150C, 151C, 182C, 185C, 194C(formerly 189C), 216C DANC 100C, 101C [∞] , 105C, 106C, 107C, 108C, 111C, 112C, <u>120C</u> , <u>134C</u> ENGL 125C [□] (125HC [□]) MAD 196C,198C(begin F18) MUS 101C, 103C, 113C [∞] , 116C, 117C, 118C [□] (118HC [□]), 119C, 120C, 127C, 274C, 280C, 282C, <u>291C</u> ; MUSA 104C(formerly MUS 122C) PHOT 101C [□] : 204C(begin F18) THEA 100C,101C,102C(F95-F10;begin F13),107C ^{∞□} (107HC ^{∞□}),108C(formerly 106C),120C,126C [□] ,129C,132C,133C,149C					
C2	HUMANITIES: 3 Unit Minimum ANTH 105C(begin F14), 107C CHIN 100C, 101C, 102C, 203C COMM 220C [□] (220HC [□]) ENGL 102C ^{**□} (102HC ^{**□}), 110C, 111C, 126C, 127C(begin F17), 208C, 211C, 212C, 221C, 222C, 234C [□] (234HC [□]), 239C [∞] , 243C, 247C [∞] , 248C(begin F18),255C [∞] , 256C [∞] , 260C ESL 184C,185C,186C (begin F18) ETHS 130C [∞] (begin F17), 131C [∞] (begin F17), 151C [∞] (formerly 141C) (begin F17), 152C [∞] (begin F17), 160C [∞] (begin F17), 171C [∞] (begin F17) FREN 101C, 102C, 203C, 204C HIST 110C [□] (110HC [□]), 111C [□] (111HC [□]),160C [□] ,161C [□] ,165C,170C [□] (170HC [□]),171C [□] (171HC [□]),270C [□] , 275C [□] INDS 100C, 101C JAPN 100C, 101C, 102C, <u>125C</u> , 203C, 204C JOUR 110C PHIL 100C [□] (100HC [□]), 101C, 110C, 120C, 135C(begin F16), 160C, 201C, 202C, 230C, 240C(begin F17) PORT 101C, 102C SPAN 101C, 102C, 201C, 202C, 203C, 204C					

(Check boxes accordingly) LEGEND: C=Completed IP=In Progress R=Remaining

	CATEGORY D. SOCIAL SCIENCES	6-UNIT MINIMUM	AP CREDIT or OTHER COLLEGE COURSE(S)	C	IP	R
D	<p>AJ 110C (begin F18),120C (begin F18) ANTH 102C[∞] (102HC[∞]), 103C(formerly 203C), 104C(begin F17), 105C (begin F18), 106C,121C[∞], 208C(begin F17), 211C(begin F17), 225C(begin F17) COMM 120C[∞],220C[∞] (220HC[∞]) ECON 100C[∞] (100HC[∞]), 105C[∞] (105HC[∞]), 110C, 120C,260C ETHS 101C[∞](formerly 100C) (101HC[∞])(formerly 100HC), 129C[∞], 130C[∞], 131C[∞], 150C[∞](formerly 140C), 151C[∞](formerly 141C), 152C[∞], 153C[∞],160C[∞], 170C[∞], 171C[∞], 235C(begin F17) GEOG 100C[∞] (100HC[∞]), 130C(begin F17), 160C,260C HIST 110C[∞] (110HC[∞]), 111C[∞] (111HC[∞]), 112C[∞] (112HC[∞]), 113C[∞] (113HC[∞]), 135C,142C(begin F05), 143C,151C(begin F15), 152C(begin F15), 160C[∞], 161C[∞], 163C(begin F05), 165C, 170C[∞] (170HC[∞]), 171C[∞] (171HC[∞]), 190C(formerly 162AC), 191C(formerly 162BC), 270C[∞] (begin F05),275C[∞] HS 277C[∞] HUSR 200C(begin F17), 250C[∞](begin F06), 255C[∞](begin F06),292C KIN 248C (begin F18), 249C(begin F17, formerly PE 250C), 280C(begin F17), 281C(begin F17), 283C (begin F17), 285C(begin F17) MGT 161C, 268C POSC 100C[∞] (100HC[∞]), 101C, 120C, 200C, 209C, 210C, 215C, 216C, 230C,209C PSY 101C[∞] (101HC[∞]),120C[∞](begin F08),131C(begin F18),139C(begin F17),145C,202C(begin F18),221C(begin F18),222C(begin F18),240C(begin F05),251C, 255C[∞](begin F06) REC 102C SOC 101C[∞] (101HC[∞]), 102C, 120C[∞](begin F08), 225C(begin F18),250C[∞](begin F06), 275C, 277C(begin F15)</p>					
	CATEGORY E. PHYSICAL ACTIVITY AND HEALTH	1-UNIT MINIMUM				
E	<p>DANC 100C, 102C,105C, 106C, 107C, 108C,109C,110C, 111C, 112C, 113C, 114C, 115C, 116C,117C, 121C, 122C, 124C, 130C, 131C, 132C, 133C, 134C, 136C, 137C, 139C, 140C, 141C, 142C, 143C, 144C, 145C, 203C, 204C, 205C(begin F17), 206C, 208C, 212C, 214C, 215C, 296C, 298C, 299C HRC 100C KIN 100C thru 222C, 244C, 270C (begin F17), 280C(begin F17), 281C(begin F17), 283 C(begin F17), 284C (formerly PE 234 C), 285C(begin F17)</p>					
	Cypress College Graduation Requirements					
	CULTURAL DIVERSITY	3-UNIT MINIMUM				
	<p>AJ 160C(begin F17) ANTH 121C ATC 182C COMM 120C COUN 152C DANC 101C ENGL 208C, 239C, 247C, 255C, 256C; ETHS 101C[∞](formerly 100C) (101HC[∞])(formerly100HC), 129C, 130C, 131C, 150C, 151C, 152C, 153C, 160C, 170C, 171C, 235C HIST 275C Completion of the Nursing Program also meets the Cultural Diversity graduation requirement.</p>	<p>HS 277C HUSR 295C KIN 249C(formerly PE 250C), 281C(begin F17) MKT 205C MUS 113C(begin F05) POSC 209C PSY 131C(formerly 237C) REC 102C(begin F17) SOC 237C THEA 107C[∞] (107HC[∞])</p>				
	READING PROFICIENCY					
	<p>One of the following: ENGL 096C, 102C, 102HC, 103C(begin F14), 103HC(begin F16),104C(begin F14), 104HC(begin F14), 106C Other ways to meet the requirement include: A satisfactory score on the Cypress College Reading Proficiency Test; Completion of CSU GE Certification, IGETC Certification, or a Bachelor Degree from a U.S. regionally accredited institution. Specific External Exam Credit such as Advanced Placement (AP) may satisfy the requirement. See a counselor for details.</p>					
	LEGEND					
*	The Mathematics requirement can also be met by passing a Mathematics Proficiency Examination. Refer to the schedule of classes for time and date of administration of the examination.					
**	Also meets Reading Proficiency requirement for graduation.					
∞	Also meets Cultural Diversity requirement for graduation.					
◇	Course may be used to satisfy requirements for one area only.					
□	Duplicate credit not granted for the same cross listed courses, nor for non-honors and honors classes.					
NOTE:	Underlining indicates a course is no longer offered at Cypress College. In order to receive General Education credit, the course must be on the official approved list at the time the course is taken. Please see a counselor to determine your catalog rights and the applicability of courses completed.					

To view the current Cypress College Native GE course list on-line, go to the Transfer Center website at: www.cypresscollege.edu/services/transfer/generalEducationPlans.

Please confer with a counselor for more information and to discuss your major requirements

REVISED

**ASSOCIATE IN SCIENCE DEGREE
ACCOUNTING**

Program Code: 1S03761

This curriculum is designed to prepare the student for employment in the field of general bookkeeping and accounting. A graduate from this program should be equipped to meet the demands of any organization requiring skills in general accounting, cost accounting and analysis of financial information. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of “C”; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses are listed in suggested sequence:		Units
ACCT 101 C	Financial Accounting	5
CIS 111 C	Computer Information Systems	3
ACCT 102 C	Managerial Accounting	5
ACCT 190 C	Accounting Systems Design and Applications	3
MGT 111 C	Business Communications	3
	or	
MGT 211 C	Writing for Business	(3)
ECON 105 C	Principles of Economics-Micro	3
	or	
ECON 105HC	Honors Principles of Economics	(3)
	or	
ECON 110 C	Survey of Economics	(3)
ACCT 201 C	Intermediate Accounting	3
ACCT 011 C	Payroll Accounting	2
ACCT 202 C	Cost Accounting	3
ACCT 204 C	Accounting-Government and Nonprofit Entities	3
	Total Units	33

REVISED

ACCOUNTING CERTIFICATE Program Code: 1C21094

This program is designed to prepare the student for entry level positions and/or professional advancement in a wide variety of accounting jobs. These jobs include general accounting, governmental accounting, cost accounting, payroll, inventory management, asset management, credit and collections, financial analysis, etc. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
ACCT 101 C	Financial Accounting	5
CIS 111 C	Computer Information Systems	3
ACCT 102 C	Managerial Accounting	5
ACCT 190 C	Accounting Systems Design and Applications	3
MGT 111 C	Business Communications	3
	or	
MGT 211 C	Writing for Business	(3)
ACCT 201 C	Intermediate Accounting	3
ACCT 011 C	Payroll Accounting	2
ACCT 202 C	Cost Accounting	3
ACCT 204 C	Accounting-Government and Nonprofit Entities	3
	Total Units	30

ACCT 101 C Financial Accounting

5 Units

(C-ID: ACCT 110)

Prerequisite: MATH 038 C or MATH 040 C or MATH 041 C with grades of “C” or better.

Term hours: 90 lecture. A course in beginning accounting meets transfer requirements to four-year colleges and universities and provides a foundation for vocational accounting or other areas of business administration. This course describes and illustrates financial accounting theory and principles, including classification of accounts, recording of financial transactions, presentation and analysis of financial statements, and fundamentals of the accounting cycle as applied to service and merchandising enterprises. Credit by Examination. (UC/CSU)

ACCT 102 C Managerial Accounting

5 Units

(C-ID: ACCT 120)

Prerequisite: ACCT 101 C with a grade of “C” or better.

Advisory: CIS 111 C and CIS 103 C.

Term hours: 90 lecture. This is the study of how managers use accounting information in decision-making, planning, directing operations and controlling. Focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Includes issues relating to cost systems, cost control, profit planning, and performance analysis in manufacturing and service environments. (UC/CSU)

NEW

**ASSOCIATE IN SCIENCE IN
ADMINISTRATION OF JUSTICE FOR
TRANSFER DEGREE (AS-T) Program Code: 1S37048**

This curriculum is designed to provide an Associate in Science Degree in Administration of Justice for Transfer (AS-T in AJ) for students who would like to transfer to a California State University (CSU) and major in Administration of Justice or Criminal Justice. The Administration of Justice discipline examines the structure, functions, laws and procedures, and decision-making processes of agencies that deal with crime management, such as police, prosecutors, courts, and correctional facilities. This curriculum offers students the opportunity to learn skills necessary for working with local, state, or federal law enforcement agencies and will demonstrate commitment to the field and provide comprehensive preparation for upper-division work. Students should consult a counselor, the Transfer Center and the catalog of the transfer college or university to plan a specific program of study to meet the college’s or university’s requirements. Note: Courses that fulfill major requirements for an Associate Degree for Transfer at Cypress College might not be the same as those required for completing the major at all transfer institutions offering a Baccalaureate Degree. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746–66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “Associate Degree for Transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The AS-T is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. To earn an AS-T in Administration of Justice, students must complete the following requirements: (1) a minimum of 18 semester units or 27 quarter units in the major or area of emphasis

with a minimum grade of “C” in those courses; (2) California State University General Education Breadth requirements (CSU-GE Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC); (3) completion of 60 semester units or 90 quarter CSU transferable units; (4) and have a minimum overall grade point average (GPA) of 2.0.

Required Core Courses (6 units) are listed in suggested sequence:

	Units
AJ 110 C Introduction to Criminal Justice	3
AJ 120 C Concepts of Criminal Law	3

List A: 6 units

	Units
AJ 140 C Criminal Investigation	3
AJ 160 C Community and the Justice System	3

List B: Select two (6–7 units)

	Units
PSY 101 C Introduction to Psychology	3
PSY 101HC Honors Introduction to Psychology	(3)
SOC 101 C Introduction to Sociology	3
SOC 101HC Honors Introduction to Sociology	(3)
SOC 102 C Social Problems	3
MATH 120 C Introduction to Probability and Statistics	4
PSY 161 C Probability and Statistics-Social Sciences	(4)
PSY 161HC Honors Probability and Statistics-Social Sciences	(4)
SOC 161 C Probability and Statistics-Social Sciences	(4)
SOC 161HC Honors Probability and Statistics-Social Sciences	(4)
CIS 111 C Computer Information Systems	3
PHIL 170 C Logic and Critical Thinking	3
PHIL 172 C Critical Thinking and Writing	(3)
Total Units	18–19

AJ 110 C Intro to Criminal Justice 3 Units (C-ID: AJ 110)

Term hours: 54 lecture. This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principles and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies. (UC/CSU, AS GE, **CSU GE, IGETC**)

AJ 120 C Concepts of Criminal Law 3 Units (C-ID: AJ 120)

Prerequisite: Completion of or concurrent enrollment in AJ 110 C.

Term hours: 54 lecture. This course offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. This course utilizes case law and case studies to introduce students to criminal law. The completion of this course offers a foundation upon which upper-division criminal justice course will build. The course will also include some limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes. (UC/CSU, AS GE, **CSU GE, IGETC**)

NEW

AIR CONDITIONING AND REFRIGERATION PROJECT MANAGEMENT CERTIFICATE

Program Code: 1C37208

Minor decisions can have a major impact to the success of a HVAC/R project. The Air Conditioning & Refrigeration Project Management examines industry specific technical management skills for quality project control. To earn this certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all major course work must be completed at Cypress College.

Required Courses		Units
AC/R 100 C Principles of Thermodynamics and Heat Transfer		3
AC/R 110 C Air Conditioning I		3
AC/R 120 C Piping Practice, Tools and Safety		2
AC/R 215 C Codes and Estimating for HVACR		3
AC/R 260 C Crew Leadership-Field Supervisor		2
AC/R 265 C Project Management		3
AC/R 055 C Technician Customer Relations		2
CIS 216 C Microsoft Project		3
Total Units		21

REVISED

COMMERCIAL AIR CONDITIONING CERTIFICATE

Program Code: 1C31186

The Commercial Air Conditioning Certificate provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career in commercial building air conditioning. Students completing this certificate will develop an advanced understanding of commercial building air conditioning. To earn this certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all major course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
AC/R 100 C Principles of Thermodynamics and Heat Transfer		3
AC/R 110 C Air Conditioning I		3
AC/R 120 C Piping Practice, Tools and Safety		2
AC/R 036 C Refrigerants, Charging and Recovery		1
AC/R 137 C Blueprints and Dimension Analysis		2
AC/R 105 C Electricity for Air Conditioning and Refrigeration I		3
AC/R 115 C Gas Heating and Carbon Monoxide		2
AC/R 125 C Boiler and Hydronic Heating		2
AC/R 135 C Solar Energy for Heat and Cool		2
AC/R 145 C Load Calculations for Heating and Cooling		2
AC/R 205 C Commercial Air Conditioning		3
Total Units		25

REVISED

**ASSOCIATE IN ARTS DEGREE
ANTHROPOLOGY**

Program Code: 1A18368

The Associate in Arts Degree in Anthropology is designed to provide students with a comprehensive introduction to the four major fields of anthropology in order to give them the background knowledge needed by undergraduate anthropology majors for university transfer and coursework, while emphasizing the practical applications of anthropological skills and knowledge in a diversity of careers and the utility of anthropological perspectives as a life-long learning tool for interpreting world events. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of “C”; (2) California State University General Education Breadth requirements (CSU GE Breadth) or IGETC general education plan; (3) any elective courses to complete a minimum of 60 units; (4) complete all graduation requirements; and (5) have an overall GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Students pursuing more than one specified departmental major may double count a maximum of 7 units to fulfill major requirements. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required Courses	Units
ANTH 101 C	3
	or
ANTH 101HC	(3)
ANTH 101LC	1
ANTH 102 C	3
	or
ANTH 102HC	(3)
ANTH 103 C	3
	or
ANTH 106 C	(3)
ANTH 105 C	3
Six (6) units or more from the following	
Anthropology Elective Courses	
ANTH 103 C	3
	or
ANTH 106 C	(3)
ANTH 104 C	3
ANTH 107 C	3
ANTH 121 C	3
ANTH 208 C	3
ANTH 210 C	3
ANTH 211 C	3
ANTH 225 C	3
	3
ANTH 231 C	3
ANTH 232 C	3
Total Units	19

ANTH 208 C Anthropology of Death

3 Units

Advisory: Completion of ENGL 100 C. Completion of ANTH 102 C or 104 C or 107 C.

Term hours: 54 lecture. This course is a cross-cultural exploration of the beliefs and practices surrounding death, dying, mourning, and mortuary customs, as well as conceptions of the afterlife, in both Western and non-Western cultures around the world, and how the individual is impacted sociologically, physiologically and psychologically throughout the life course by issues related to death and dying. It will emphasize how human social, political and economic institutions are inextricably interwoven using an integrated anthropological approach, including data from archaeology, biological anthropology, linguistic anthropology and cultural anthropology, as well as broader social science perspectives, methods, values and ethics. This course is specifically designed as a general education social science course and to illustrate how understanding beliefs and practices related to death and dying provide lifelong appreciation of the individual as an integrated physiological, social, and psychological being. Duplicate credit not granted for ANTH 308 C. (UC/CSU, **CSU GE, IGETC**)

REVISED

**ASSOCIATE IN ARTS IN
ART HISTORY FOR TRANSFER
DEGREE (AA-T)**

Program Code: 1A31986

This curriculum is designed to provide an opportunity for the Art History major to achieve an Associate in Arts Degree in Art History for Transfer (AA-T in Art History) which completes the first and second year requirements for transfer to a four-year public California institution. This degree provides lower division major and general education preparation for students interested in transferring to four-year universities as Art History majors. The study of Art History is an interdisciplinary, critical study of human history through the perspective of visual culture. Students explore the various areas of Art History to build a foundation for future creative, interpretive, analytical work. While at least a baccalaureate degree is recommended preparation for those considering professional careers, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for further academic study through upper-division course work. This curriculum specifically prepares the prospective transfer student for upper division coursework in Art History or a similar major at a California State University (CSU) campus. Students should consult a counselor, the Transfer Center and the catalog of the transfer college or university to plan a specific program of study to meet the college or university’s requirements. Note: Courses that fulfill major requirements for an Associate Degree for Transfer at Cypress College might not be the same as those required for completing the major at all transfer institutions offering a Baccalaureate Degree. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746–66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The AA-T is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer

requirements. To earn an AA-T in Art History students must complete the following requirements: (1) a minimum of 18 semester units or 27 quarter units in the major or area of emphasis as determined by the community college district, (2) earn a grade of C or better in all courses required for the major or area of emphasis, (3) the California State University General Education Breadth requirements (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern, (4) 60 semester or 90 quarter CSU-transferable units, and (5) obtainment of a minimum grade point average (GPA) of 2.0.

Required Core: 9 Units		Units
ART 111 C	Survey of Art History I	3
ART 112 C	Survey of Art History II	3
	or	
ART 112HC	Honors Survey of Art History II	(3)
ART 182 C	Beginning Drawing	3
List A		Units
ART 216 C	Latin American Art	3
List B — select 1 course from the following courses listed:		Units
ART 120 C	Two-Dimensional Design	3
ART 121 C	Three-Dimensional Design	3
ART 185 C	Beginning Life Drawing	3
MAD 116 C	Graphic Design I	3
ART 150 C	Ceramics Handbuilding	3
PHOT 101 C	Introduction to Photography	3
List C — select 1 course from the following courses listed or any course from List B not already used		Units
ART 114 C	Modern Art History	3
ART 100 C	Fundamentals of Art	3
ART 110 C	Introduction to Art	3
ENGL 110 C	Humanities: Ancient and Medieval	3
	or	
INDS 100 C	Humanities: Ancient and Medieval	(3)
ENGL 111 C	Humanities: Renaissance-Present	3
	or	
INDS 101 C	Humanities: Renaissance-Present	(3)
FREN 101 C	Elementary French I	5
FREN 102 C	Elementary French II	5
FREN 203 C	Intermediate French III	4
FREN 204 C	Intermediate French IV	4
HIST 110 C	Western Civilizations I	3
	or	
HIST 110HC	Honors Western Civilizations I	(3)
HIST 111 C	Western Civilizations II	3
	or	
HIST 111HC	Honors Western Civilizations II	(3)
HIST 112 C	World Civilizations I	3
	or	
HIST 112HC	Honors World Civilizations I	(3)
HIST 113 C	World Civilizations II	3
	or	
HIST 113HC	Honors World Civilizations II	(3)
PHIL 201 C	History of Ancient Philosophy	3
PHIL 202 C	History of Modern Philosophy	3
Total Units		18–20

REVISED

ASSOCIATE IN ARTS IN STUDIO ARTS FOR TRANSFER DEGREE (AA-T)

Program Code: 1A32097

This curriculum is designed to provide an opportunity for the Studio Arts major to achieve an Associate in Arts in Studio Arts for Transfer (AA-T in Studio Arts) which completes the first and second year requirements for transfer to a four-year public California institution. This degree provides lower division major and general education preparation for students interested in transferring to four-year universities as Studio Arts majors. The study of Studio Arts is an interdisciplinary, critical study of technical development, as well as the foundation for all studio based courses. Students explore the various areas of studio art to build a foundation for future creative, interpretive, analytical work and portfolios. While at least a baccalaureate degree is recommended preparation for those considering professional careers, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for further academic study through upper-division course work. This curriculum specifically prepares the prospective transfer student for upper division coursework in Studio Arts or a similar major at a California State University (CSU) campus. Students should consult a counselor, the Transfer Center and the catalog of the college or university to plan a specific program of study to meet the college or university's requirements. Note: Courses that fulfill major requirements for an Associate Degree for Transfer at Cypress College might not be the same as those required for completing the major at all transfer institutions offering a Baccalaureate Degree. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746–66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The AA-T is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. To earn an AA-T in Studio Arts, students must complete the following requirements: (1) a minimum of 18 semester units or 27 quarter units in the major or area of emphasis as determined by the community college district, (2) earn a grade of C or better in all courses required for the major or area of emphasis, (3) the California State University General Education Breadth requirements (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern, (4) 60 semester or 90 quarter CSU-transferable units, and (5) obtainment of a minimum grade point average (GPA) of 2.0.

Core Courses (12 units)		Units
ART 112 C	Survey of Art History II	3
	or	
ART 112HC	Honors Survey of Art History II	(3)
ART 120 C	Two-Dimensional Design	3
ART 121 C	Three-Dimensional Design	3
ART 182 C	Beginning Drawing	3

List A: Art History restricted Electives (3)

Select one course from the following:		Units
ART 111 C	Survey of Art History I	3
ART 114 C	Modern Art History	3

List B: Studio Arts restricted Electives (9)

Select one course from any three of the following areas:		Units
ART 183 C	Intermediate Drawing	3
	or	
ART 185 C	Beginning Life Drawing	(3)
ART 194 C	Beginning Painting	3
ART 130 C	Introduction to Printmaking	3
ART 150 C	Ceramics Handbuilding	3
	or	
ART 151 C	Ceramics Throwing	(3)
ART 149 C	Beginning Sculpture	3
MAD 100 C	Introduction to Media Arts Design-Mac	3
PHOT 101 C	Introduction to Photography	3
ART 123 C	Color Theory	3
ART 174 C	Jewelry Design	3
	and	
ART 175 C	Metalsmithing	3
MAD 116 C	Graphic Design I	3
	Total Units	24

REVISED

ASSOCIATE IN ARTS DEGREE

ART Program Code: 1A03776

This program is designed to prepare the student in the development of conceptual and technical skills required by artists in certain occupations. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of "C"; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required Courses are listed in suggested sequence (18 units)		Units
ART 182 C	Beginning Drawing	3
ART 120 C	Two-Dimensional Design	3
ART 111 C	Survey of Art History I	3
ART 112 C	Survey of Art History II	3
	or	(3)
ART 112HC	Honors Survey of Art History II	3
ART 121 C	Three-Dimensional Design	3
ART 123 C	Color Theory	3

Select 9 units from the following:		Units
ART 130 C	Introduction to Printmaking	3
ART 131 C	Intermediate Printmaking	3
ART 150 C	Ceramics Handbuilding	3
ART 151 C	Ceramics Throwing	3
ART 152 C	Technical and Conceptual Ceramics	3
ART 153 C	Ceramic Studio Exploration	3
ART 154 C	Ceramic Aesthetics and Finishes	3
ART 161 C	Gallery Studies 1	3
ART 162 C	Gallery Studies 2	3
ART 163 C	Gallery Studies 3	3
ART 183 C	Intermediate Drawing	3
ART 184 C	Advanced Drawing	3
ART 185 C	Beginning Life Drawing	3
ART 186 C	Intermediate Life Drawing	3
ART 191 C	Life Painting	3
ART 193 C	Portrait Painting	3
ART 194 C	Beginning Painting	3
ART 195 C	Intermediate Painting	3
ART 196 C	Advanced Painting	3
ART 244 C	Illustration	3
ART 246 C	Advanced Illustration	3
ART 166 C	Contemporary Art Studio	3
ART 149 C	Beginning Sculpture	3
	Total Units	27

REVISED

COLLISION REPAIR PAINT APPLICATION

SPECIALIST CERTIFICATE Program Code: 1C31344

This program is designed to prepare students for occupational competency in the automotive refinishing trade with an emphasis on color and application theory, matching solid, metallic and pearlescent colors. Topics include procedures, mixing equipment, surface preparation and topcoat application as well as general knowledge of the inner workings of the modern automobile. To earn a certificate, students must complete the required courses as listed with a minimum grade of "C" or higher. At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
ACR 007 C	Refinishing Technician I	6
ACR 020 C	Auto Detail/Car Care-Beginning	3
ACR 021 C	Advanced Auto Detailing	3
ACR 050 C	ACR/Special Projects	2-3
	Total Units	14-15

NEW

AUTOMOTIVE T-TEN AIR CONDITIONING SPECIALIST CERTIFICATE Program Code: 1C37115

This program is designed to prepare T-TEN students for employment as an automotive Air Conditioning system diagnostic specialist. Course work includes theory and operation of HVAC systems, the use of test instruments, refrigerant recycling and skill competency in HVAC system diagnosis and repair. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern Toyota/Lexus automotive HVAC system specialist. To earn a certificate, complete the required courses as listed with a minimum grade of "C". 100% of all course work must be completed at Cypress College.

The courses are shown in the required sequence.		Units
AT 112 C	Toyota Electrical Systems	12
AT 115 C	Automotive Air Conditioning	4
AT 209 C	Toyota Portfolio TPORT	1
Total Units		17

NEW

AUTOMOTIVE T-TEN BRAKE AND ALIGNMENT SPECIALIST CERTIFICATE Program Code: 1C37074

This program is designed to prepare T-TEN students for employment as automotive brake and alignment technicians. Training is given in theory and practical skills. Directed practical work is given in areas of automotive maintenance and repair under simulated on-the-job conditions. Particular emphasis is placed on those competencies required of Toyota/Lexus brake, suspension, and alignment technicians. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern automotive brake, suspension, and alignment technician. To earn a certificate, complete the required courses as listed with a minimum grade of "C". 100% of all course work must be completed at Cypress College.

The courses are shown in the sequence required.		Units
AT 109 C	Introduction to Toyota Automotive Technology	4
AT 130 C	Auto Chassis and Brake Systems	12
AT 209 C	Toyota Portfolio TPORT	1
Total Units		17

NEW

AUTOMOTIVE T-TEN ELECTRICAL CERTIFICATE Program Code: 1C37117

This program is designed to prepare students for employment as Toyota/Lexus automotive electrical system diagnostic specialist. Course work includes theory and operation of electrical systems, the use of test instruments, and skill competency in electrical system diagnosis and repair. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern automotive electrical system specialist. To earn a certificate, complete the required courses as listed with a minimum grade of "C". 100% of all course work must be completed at Cypress College.

Courses are shown in the required sequence.		Units
AT 109 C	Introduction to Toyota Automotive Technology	4
AT 112 C	Toyota Electrical Systems	12
AT 209 C	Toyota Portfolio TPORT	1
Total Units		17

NEW

AUTOMOTIVE T-TEN ENGINE AND DRIVELINE SPECIALIST CERTIFICATE Program Code: 1C37064

This program is designed to prepare students for employment as a T-TEN engine and drivetrain specialist. Training is given in theory and practical skills. Directed practical work is given in areas of automotive maintenance and repair under simulated on-the-job conditions. Particular emphasis is placed on those competencies required of engine and power train technicians. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern automotive engine and power train specialist. To earn a certificate, complete the required courses as listed with a minimum grade of "C". 100% of all course work must be completed at Cypress College.

The required courses are shown in the required sequence.		Units
AT 109 C	Introduction to Toyota Automotive Technology	4
AT 121 C	Auto Engine Mechanical Concept	6
AT 141 C	T-TEN Drivetrain and Transmissions	6
AT 213 C	Toyota Portfolio II TPORT (II)	1
Total Units		17

NEW

AUTOMOTIVE T-TEN PERFORMANCE AND DRIVEABILITY SPECIALIST CERTIFICATE Program Code: 1C37105

This program is designed to prepare students for employment as a Toyota/Lexus automotive performance and drivability specialist. Training is given in theory and practical skills. Directed practical work is given in areas of automotive maintenance and repair under simulated on-the-job conditions. Particular emphasis is placed on those competencies required of performance and drivability technicians. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern automotive performance and drivability specialist. To earn a certificate, complete the required courses as listed with a minimum grade of "C". 100% of all course work must be completed at Cypress College.

The courses are shown in the required sequence.		Units
AT 109 C	Introduction to Toyota Automotive Technology	4
AT 150 C	Auto Performance and Driveability	12
AT 213 C	Toyota Portfolio II TPORT (II)	1
Total Units		17

NEW

AUTOMOTIVE T-TEN TOYOTA AND LEXUS SPECIALIST CERTIFICATE

Program Code: 1C37110

This program is designed to prepare students for employment as automotive technicians in Toyota dealerships. Training is given in theory and practical skills. Directed practical work is given in all areas of automotive maintenance and repair under simulated on-the-job conditions. Particular emphasis is placed on those competencies required of Toyota technicians. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern Toyota technician. The sequence in which courses are taken may be modified to meet individual needs. To earn a certificate, complete the required courses as listed with a minimum grade of "C". 100% of all course work must be completed at Cypress College.

The courses are listed in the required sequence.		Units
AT 109 C	Introduction to Toyota Automotive Technology	4
AT 112 C	Toyota Electrical Systems	12
AT 130 C	Auto Chassis and Brake Systems	12
AT 115 C	Automotive Air Conditioning	4
AT 121 C	Auto Engine Mechanical Concept	6
AT 141 C	T-TEN Drivetrain and Transmissions	6
AT 150 C	Auto Performance and Driveability	12
Total Units		56

REVISED

ASSOCIATE IN SCIENCE DEGREE AIRLINE CUSTOMER SERVICES

Program Code: 1S14040

The Airline Customer Services Program provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career as a reservations agent, gate agent, ticket agent, or customer services manager. Students completing this degree will develop an advanced understanding of the airline industry and the safety, security, and service requirements necessary to work in customer services for a major airline. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of "C"; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses are listed in numeric sequence:		Units
ATC 101 C	Introduction to Travel Careers	3
ATC 102 C	Career Communication/Portfolio	3
ATC 174 C	Destinations: Americas/Europe	3
ATC 175 C	Destinations: Africa/Pacific	3
ATC 182 C	Cultural Tourism	3
	or	
ATC 256 C	Crew Resource Management	(3)
ATC 183 C	Customer Care: Airline/Travel	3
	or	
ATC 274 C	Passenger Services and Safety	(3)
ATC 192 C	Airline Reservations: SABRE	3
ATC 270 C	Airline Operations	3
ATC 271 C	Airport Operations	3

Electives: To complete all major course requirements, students must complete 8 elective units from the list below (if not already taken as a required course) for a total of 35 units.

	Units	
ATC 112 C	Homeland Security 3	
ATC 116 C	Aviation/Transportation Security 3	
ATC 118 C	Disaster Preparedness and Response 3	
ATC 132 C	Private Pilot 4	
ATC 182 C	Cultural Tourism 3	
ATC 183 C	Customer Care: Airline/Travel 3	
ATC 196 C	Flight Simulator Private Pilot 1	
ATC 256 C	Crew Resource Management 3	
ATC 274 C	Passenger Services and Safety 3	
ATC 278 C	Public Relations 3	
ATC 295 C	Aviation/Travel Internship 3	
ATC 298 C	Aviation/Travel Seminar 0.5–12	
ATC 299 C	Independent Study 0.5–2	
Total Units		35

REVISED

ADVANCED AIRLINE CUSTOMER SERVICES CERTIFICATE

Program Code: 1C21124

The Airline Customer Services Program provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career as a reservations agent, gate agent, ticket agent, or customer services manager. Students completing this certificate will develop an advanced understanding of the airline industry and the safety, security, and service requirements necessary to work in customer services for a major airline.

To earn this certificate, complete the required courses as listed with a minimum grade of "C." At least 50% of all major course work must be completed at Cypress College.

Required courses are listed in numeric sequence:		Units
ATC 101 C	Introduction to Travel Careers	3
ATC 102 C	Career Communication/Portfolio	3
ATC 174 C	Destinations: Americas/Europe	3
ATC 175 C	Destinations: Africa/Pacific	3
ATC 182 C	Cultural Tourism	3
	or	
ATC 256 C	Crew Resource Management	(3)
ATC 183 C	Customer Care: Airline/Travel	3
	or	
ATC 274 C	Passenger Services and Safety	(3)
ATC 192 C	Airline Reservations: SABRE	3
ATC 270 C	Airline Operations	3
ATC 271 C	Airport Operations	3

Electives: To complete all major course requirements, students must complete 8 elective units from the list below (if not already taken as a required course) for a total of 35 units.

	Units	
ATC 112 C	Homeland Security 3	
ATC 116 C	Aviation/Transportation Security 3	
ATC 118 C	Disaster Preparedness and Response 3	
ATC 132 C	Private Pilot 4	
ATC 182 C	Cultural Tourism 3	
ATC 183 C	Customer Care: Airline/Travel 3	
ATC 196 C	Flight Simulator Private Pilot 1	
ATC 256 C	Crew Resource Management 3	
ATC 274 C	Passenger Services and Safety 3	
ATC 278 C	Public Relations 3	
ATC 295 C	Aviation/Travel Internship 3	
ATC 298 C	Aviation/Travel Seminar 0.5–12	
ATC 299 C	Independent Study 0.5–2	
Total Units		35

REVISED

BASIC AIRLINE CUSTOMER SERVICES CERTIFICATE Program Code: 1C14403

The Airline Customer Services Program provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career as a reservations agent, gate agent, ticket agent, or customer services manager. Students completing this degree will develop a basic understanding of the airline industry and the safety, security, and service requirements necessary to work in customer services for a major airline. To earn this certificate, complete the required courses as listed with a minimum grade of “C.” At least 50% of all major course work must be completed at Cypress College.

Required courses are listed in numeric sequence:		Units
ATC 101 C	Introduction to Travel Careers	3
ATC 102 C	Career Communication/Portfolio	3
ATC 174 C	Destinations: Americas/Europe	3
	or	
ATC 175 C	Destinations: Africa/Pacific	(3)
ATC 183 C	Customer Care: Airline/Travel	3
ATC 192 C	Airline Reservations: SABRE	3
ATC 270 C	Airline Operations	3
	Total Units	18

REVISED

ASSOCIATE IN SCIENCE DEGREE FLIGHT ATTENDANT Program Code: 1S03814

The Flight Attendant Program provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career as a flight attendant. Students completing this degree will develop an advanced understanding of the airline industry and the customer safety, security, and service requirements necessary to work as a flight attendant for a major airline. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of “C”; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses are listed in suggested sequence:		Units
ATC 101 C	Introduction to Travel Careers	3
ATC 102 C	Career Communication/Portfolio	3
ATC 174 C	Destinations: Americas/Europe	3
ATC 175 C	Destinations: Africa/Pacific	3
ATC 182 C	Cultural Tourism	3
ATC 183 C	Customer Care: Airline/Travel	3
ATC 256 C	Crew Resource Management	3
ATC 270 C	Airline Operations	3
ATC 274 C	Passenger Services and Safety	3

Electives: To complete all major course requirements, students must complete 8 elective units from the list below for a total of 35 units.

	Units	
ATC 100 C	Introduction to Aviation	3
ATC 112 C	Homeland Security	3
ATC 116 C	Aviation/Transportation Security	3
ATC 118 C	Disaster Preparedness and Response	3
ATC 132 C	Private Pilot	4
ATC 196 C	Flight Simulator Private Pilot	1
ATC 278 C	Public Relations	3
ATC 295 C	Aviation/Travel Internship	3
ATC 298 C	Aviation/Travel Seminar	0.5–12
ATC 299 C	Independent Study	0.5–2
KIN 121 C	Self Defense	0.5–1
KIN 235 C	First Aid, CPR and Emergencies	3
	Total Units	35

REVISED

ADVANCED FLIGHT ATTENDANT CERTIFICATE Program Code: 1C21126

The Flight Attendant Program provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career as a flight attendant. Students completing this certificate will develop an advanced understanding of the airline industry and the customer safety, security, and service requirements necessary to work as a flight attendant for a major airline. To earn this certificate, complete the required courses as listed with a minimum grade of “C.” At least 50% of all major course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
ATC 101 C	Introduction to Travel Careers	3
ATC 102 C	Career Communication/Portfolio	3
ATC 174 C	Destinations: Americas/Europe	3
ATC 175 C	Destinations: Africa/Pacific	3
ATC 182 C	Cultural Tourism	3
ATC 183 C	Customer Care: Airline/Travel	3
ATC 256 C	Crew Resource Management	3
ATC 270 C	Airline Operations	3
ATC 274 C	Passenger Services and Safety	3

Electives: To complete all major course requirements, students must complete 8 elective units from the list below for a total of 35 units.

	Units	
ATC 100 C	Introduction to Aviation	3
ATC 112 C	Homeland Security	3
ATC 116 C	Aviation/Transportation Security	3
ATC 118 C	Disaster Preparedness and Response	3
ATC 132 C	Private Pilot	4
ATC 196 C	Flight Simulator Private Pilot	1
ATC 278 C	Public Relations	3
ATC 295 C	Aviation/Travel Internship	3
ATC 298 C	Aviation/Travel Seminar	0.5–12
ATC 299 C	Independent Study	0.5–2
KIN 121 C	Self Defense	0.5–1
KIN 235 C	First Aid, CPR and Emergencies	3
	Total Units	35

REVISED

**BASIC AIRPORT OPERATIONS
CERTIFICATE**

Program Code: 1C33734

The Airport Operations Program provides students with a career path for attaining the foundational skills, practical knowledge, and technical training necessary for pursuing a career as an operations, baggage, or cargo agent, or as an airport operations employee. Students completing this certificate will develop a basic understanding of the airline industry and the safety, security, and service requirements necessary to work in ground operations at an airport. To earn this certificate, complete the required courses as listed with a minimum grade of “C.” At least 50% of all major course work must be completed at Cypress College.

Required courses are listed in numeric sequence:		Units
ATC 102 C	Career Communication/Portfolio	3
ATC 112 C	Homeland Security	3
	or	
ATC 116 C	Aviation/Transportation Security	(3)
ATC 174 C	Destinations: Americas/Europe	3
	or	
ATC 175 C	Destinations: Africa/Pacific	(3)
ATC 212 C	Airline/Aviation Management	3
ATC 270 C	Airline Operations	3
ATC 271 C	Airport Operations	3
	Total Units	18

REVISED

**BASIC FLIGHT ATTENDANT
CERTIFICATE**

Program Code: 1C14404

The Flight Attendant Program provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career as a flight attendant. Students completing this certificate will develop a basic understanding of the airline industry and the customer safety, security, and service requirements necessary to work as a flight attendant for a major airline. To earn this certificate, complete the required courses as listed with a minimum grade of “C.” At least 50% of all major course work must be completed at Cypress College.

Required courses are listed in numeric sequence:		Units
ATC 101 C	Introduction to Travel Careers	3
ATC 102 C	Career Communication/Portfolio	3
ATC 183 C	Customer Care: Airline/Travel	3
	or	
ATC 256 C	Crew Resource Management	(3)
ATC 174 C	Destinations: Americas/Europe	3
	or	
ATC 175 C	Destinations: Africa/Pacific	(3)
ATC 270 C	Airline Operations	3
ATC 274 C	Passenger Services and Safety	3
	Total Units	18

REVISED

**BASIC TRAVEL/TOURISM
CERTIFICATE**

Program Code: 1C14405

The Travel and Tourism Program provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career as a travel agent, tour guide, or corporate travel consultant. Students completing this certificate will develop a basic understanding of the travel industry and the sales, security, and service requirements necessary to work in the travel industry. To earn this certificate, complete the required courses as listed with a minimum grade of “C.” At least 50% of all major course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
ATC 101 C	Introduction to Travel Careers	3
ATC 102 C	Career Communication/Portfolio	3
ATC 123 C	Travel Sales and Tour Operations	3
ATC 174 C	Destinations: Americas/Europe	3
	or	
ATC 175 C	Destinations: Africa/Pacific	(3)
ATC 182 C	Cultural Tourism	3
	or	
ATC 183 C	Customer Care: Airline/Travel	(3)
ATC 192 C	Airline Reservations: SABRE	3
	Total Units	18

REVISED

**BASIC CRUISE LINE SALES AND OPERATIONS
CERTIFICATE**

Program Code: 1C30458

The Basic Cruise Line Sales & Operations Certificate provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career in cruise line sales and operations. Students completing this certificate will develop a basic understanding of the cruise line operations and the sales, security, and service requirements necessary to work in the cruise industry. To earn this certificate, complete the required courses as listed with a minimum grade of “C.” At least 50% of all major course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
ATC 101 C	Introduction to Travel Careers	3
ATC 102 C	Career Communication/Portfolio	3
ATC 123 C	Travel Sales and Tour Operations	3
ATC 174 C	Destinations: Americas/Europe	3
	or	
ATC 175 C	Destinations: Africa/Pacific	(3)
ATC 182 C	Cultural Tourism	3
	or	
ATC 183 C	Customer Care: Airline/Travel	(3)
ATC 223 C	Cruise Line Sales and Operations	3
	Total Units	18

NEW
ASSOCIATE IN SCIENCE DEGREE
CAREER TECHNICAL EDUCATION —
HOMELAND SECURITY **Program Code: 1S37218**

The Career Technical Education Associate in Science Degree with Area of Emphasis in Homeland Security provides CTE students with the opportunity to earn a 60-unit degree that demonstrates commitment to the field and meets the CSU-GE or UC IGETC general education requirements. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements. The courses listed for each area of emphasis do not necessarily reflect major preparation requirements at any specific university but some courses may be used to fulfill university requirements. To earn the CTE AS Degree with Homeland Security emphasis, students must complete the following requirements: (1) 21 units of major coursework; (2) California State University General Education Breadth requirements (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (CSU IGETC); (3) completion of 60 semester units of CSU transferable coursework; and (4) have an overall GPA of 2.0. At least 50% of all major course work must be completed at Cypress College.

Required Core Classes (6 units):		Units
ATC 102 C	Career Communication/Portfolio	3
ATC 112 C	Homeland Security	3

Students must complete 15 units from the list below:		Units
ATC 116 C	Aviation/Transportation Security	3
ATC 118 C	Disaster Preparedness and Response	3
ATC 182 C	Cultural Tourism	3
ATC 256 C	Crew Resource Management	3
ATC 274 C	Passenger Services and Safety	3
AJ 110 C	Introduction to Criminal Justice	3
AJ 120 C	Concepts of Criminal Law	3
Total Units		21

NEW
ASSOCIATE IN SCIENCE DEGREE
CAREER TECHNICAL EDUCATION —
AVIATION **Program Code: 1S37188**

The Career Technical Education Associate in Science Degree with Area of Emphasis in Aviation provides CTE students with the opportunity to earn a 60-unit degree that demonstrates commitment to the field and meets the CSU-GE or UC IGETC general education requirements. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements. The courses listed for each area of emphasis do not necessarily reflect major preparation requirements at any specific university but some courses may be used to fulfill university requirements. To earn the CTE AS Degree with Aviation emphasis, students must complete the following requirements: (1) 21 units of major coursework; (2) California State University General Education Breadth requirements (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (CSU IGETC); (3) completion of 60 semester units of CSU transferable coursework; and (4) have an overall GPA of 2.0. At least 50% of all major course work must be completed at Cypress College.

Required Core Classes (6 units):		Units
ATC 102 C	Career Communication/Portfolio	3
ATC 270 C	Airline Operations	3

Students must complete 15 units from the list below:		Units
ATC 101 C	Introduction to Travel Careers	3
ATC 112 C	Homeland Security	3
ATC 116 C	Aviation/Transportation Security	3
ATC 123 C	Travel Sales and Tour Operations	3
ATC 132 C	Private Pilot	4
ATC 136 C	Air Navigation	3
ATC 140 C	Meteorology	3
ATC 174 C	Destinations: Americas/Europe	3
ATC 175 C	Destinations: Africa/Pacific	3
ATC 183 C	Customer Care: Airline/Travel	3
ATC 189 C	Flight Training Device - Introduction	0.5
ATC 196 C	Flight Simulator Private Pilot	1
ATC 197 C	Flight Simulator Instrument	1
ATC 198 C	Flight Simulator Commercial	1
ATC 199 C	Flight Simulator Instructor	1
ATC 210 C	Cabin Safety Simulation	0.5
ATC 212 C	Airline/Aviation Management	3
ATC 220 C	Advanced Air Navigation	2
ATC 232 C	Instrument Rating	3
ATC 236 C	Aerodynamics	3
ATC 240 C	Commercial Pilot Seminar	3
ATC 244 C	Aviation Instructor	3
ATC 250 C	Turbine Simulator Observation	0.5
ATC 256 C	Crew Resource Management	3
ATC 271 C	Airport Operations	3
ATC 274 C	Passenger Services and Safety	3
ATC 295 C	Aviation/Travel Internship	3
ATC 299 C	Independent Study	0.5–2
Total Units		21

NEW
ASSOCIATE IN SCIENCE DEGREE
CAREER TECHNICAL EDUCATION —
TOURISM **Program Code: 1S37190**

The Career Technical Education Associate in Science Degree with Area of Emphasis in Tourism provides CTE students with the opportunity to earn a 60-unit degree that demonstrates commitment to the field and meets the CSU-GE or UC IGETC general education requirements. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements. The courses listed for each area of emphasis do not necessarily reflect major preparation requirements at any specific university but some courses may be used to fulfill university requirements. To earn the CTE AS Degree with Tourism emphasis, students must complete the following requirements: (1) 21 units of major coursework; (2) California State University General Education Breadth requirements (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (CSU IGETC); (3) completion of 60 semester units of CSU transferable coursework; and (4) have an overall GPA of 2.0. At least 50% of all major course work must be completed at Cypress College.

Required Core Classes (6 units):		Units
ATC 102 C	Career Communication/Portfolio	3
ATC 123 C	Travel Sales and Tour Operations	3

Students must complete 15 units from the list below:		Units
ATC 101 C	Introduction to Travel Careers	3
ATC 112 C	Homeland Security	3
ATC 126 C	Travel Management	3
ATC 174 C	Destinations: Americas/Europe	3
ATC 175 C	Destinations: Africa/Pacific	3
ATC 180 C	Tourism and Conference Management	3
ATC 182 C	Cultural Tourism	3
ATC 183 C	Customer Care: Airline/Travel	3
ATC 192 C	Airline Reservations: SABRE	3
ATC 212 C	Airline/Aviation Management	3
ATC 223 C	Cruise Line Sales and Operations	3
ATC 278 C	Public Relations	3
ATC 295 C	Aviation/Travel Internship	3
Total Units		21

ATC 118 C Disaster Preparedness/Response 3 Units

Term hours: 54 lecture. This course provides students with an awareness of natural and man-made incidents which result in catastrophic loss. Disaster scenarios will be examined from the perspective of preparedness, response and clean-up. Federal, state and local response preparedness programs will be a focus, including FEMA. Students will take part in simulated incidents, including safety and security for large-scale events. State and national incident command systems, S.E.M.S. and N.I.M.S., will be taught so as to familiarize the student to police and fire responses. (CSU) (UC)

NEW
ASSOCIATE IN SCIENCE IN BIOLOGY FOR TRANSFER DEGREE (AS-T)

Program Code: 1S37120

Completion of the Associate in Science Degree in Biology for transfer (AS-T) provides lower division major and general education preparation for students interested in transferring to CSU campuses that offer a bachelor's degree in biology. Careers related to this field include biotechnology, medicine, pharmacy, dentistry, optometry, physician's assistant, biomedical engineering, agriculture, and forestry as well as many other related careers. While at least a baccalaureate degree is recommended preparation for those considering professional careers, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for further academic study through upper-division course work. Students should consult a counselor, the Transfer Center, and the catalog of the transfer college or university to plan a specific program of study to meet the college or university's requirements. Note: Courses that fulfill major requirements for an Associate Degree for Transfer at Cypress College might not be the same as those required for completing the major at all transfer institutions offering a Baccalaureate Degree. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746–66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer", a newly established variation of the associate degrees traditionally offered at a California community college. The AS-T is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. To earn an AS-T in Biology students must complete: (1) a minimum of

18 semester units or 27 quarter units in the major or area of emphasis as determined by the community college district, (2) earn a grade of C or better in all courses required for the major or area of emphasis, (3) the California State University General Education Breadth requirements* (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum* (IGETC) pattern, (4) 60 semester or 90 quarter CSU-transferable units, and (5) obtainment of a minimum grade point average (GPA) of 2.0. *Note: Due to the high unit value of this degree, it is eligible for CSU GE for STEM or IGETC for STEM which allows students to defer completion of 6 units (3 units in Arts/Humanities and 3 units in Social Sciences) until after transfer. Students should consult with a major counselor.

Required Core Courses (12 units).

Courses are listed in the suggested sequence:		Units
BIOL 174 C	Biology of Cells and Tissues	4
BIOL 175 C	Evolution and Biodiversity	4
BIOL 276 C	Ecology and Physiology	4

List A: Required supporting science and mathematics courses (22 units)

		Units
CHEM 111AC	General Chemistry I	5
CHEM 111BC	General Chemistry II	5
MATH 150AC	Calculus I	4
PHYS 201 C	College Physics I and	4
PHYS 202 C	College Physics II or	4
PHYS 221 C	General Physics I and	(4)
PHYS 222 C	General Physics II	(4)
Total Units Required		34

Optional additional major preparation courses are listed below and are not included in the required major or total degree units. Students are strongly advised to see a counselor and check university major requirements in ASSIST.org to see if any additional major prep courses are recommended for their educational goals.

		Units
BIOL 277 C	Genetics	3
BIOL 278 C	Molecular Biology	4
MATH 120 C	Introduction to Probability and Statistics	4
MATH 150BC	Calculus II	4
PHYS 223 C	General Physics III or	4
PHYS 210 C	Physics for Life Sciences I and	4
PHYS 211 C	Physics for Life Sciences II	4
Total Units		0

BIOL 160 C Integrated Medical Science 3 Units

Term hours: 54 lecture. This is a one-semester course that includes a systematic coverage of fundamental physical/chemical principles, basic biological concepts, and fundamentals of anatomy and physiology. The course is designed for various allied health programs (psychiatric technician, court reporting, etc.) or others who desire a background in human biology. Pass/No Pass/Letter Grade Option. (CSU) (UC) AA GE

BIOL 220 C Medical Microbiology 4 Units

Prerequisite: BIOL 231 C or BIOL 210 C with minimum grades of "C".

Term hours: 54 lecture and 54 laboratory. This course is a study of the etiology, transmission, pathology, diagnosis and control of infectious disease. Special attention is given to the topics of immunology and chemotherapy. Laboratory emphasis is placed on providing experience and insight into the processes of specimen handling, isolation, identification, and sensitivity testing of pathogenic microorganisms. Aseptic techniques are stressed throughout the course. This course is recommended for students of nursing (RN), dental technology, medical records, and baccalaureate degree medical or public health programs. Recommended background is one year each, high school chemistry/biology, or one semester each, college chemistry/biology. If the student has no science background, prior completion of BIOL 160 C is strongly recommended. Pass/No Pass/Letter Grade Option. (CSU) (UC)

CHEM 104 C Physical Science for Teachers 4 Units

Prerequisite: MATH 020 C or MATH 041 C with a minimum grade of "C".

Term hours: 54 lecture and 54 laboratory. This activity-based course introduces students to basic principles of physics and chemistry with emphasis on their practical importance and application in the real world. Some of the topics include: matter, physical and chemical properties, energy, motion, light, atomic structure, bonding, solutions and chemical reactions. This course is intended for students who want to become elementary school teachers. Duplicate credit not granted for PHSC 104 C. (CSU) (UC) AA GE, CSU GE

REVISED

**ASSOCIATE IN SCIENCE DEGREE
COMPUTER INFORMATION
SYSTEMS**

Program Code: 1S03767

This curriculum prepares the student for a career in the area of computer information systems. The program is designed to develop a working knowledge of what is required to be successful in business computer information systems. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of "C"; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses are listed in suggested sequence:		Units
ACCT 101 C	Financial Accounting	5
CIS 111 C	Computer Information Systems	3
CIS 132 C	Spreadsheet-Excel for Windows	4
CIS 142 C	Database-Access for Windows	3
CIS 150 C	Microsoft Office Applications	3
CIS 160 C	Information Systems Management	3
CIS 211 C	Introduction to Programming	3
CIS 250 C	Word Processing	2
MGT 111 C	Business Communications	3
	or	
MGT 211 C	Writing for Business	(3)
Total Units		29

NEW

**ASSOCIATE IN SCIENCE DEGREE
CYBER DEFENSE**

Program Code: 1S37246

The Associate in Science Degree in Cyber Defense provides concepts and hands-on skills to identify Cybersecurity threats and implement procedures to protect Cyber assets. It will also enhance students' chances to pursue a professional career in Cybersecurity by preparing them for industry-recognized certificates such as Security+, CEH, ISM and CCNA Security. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of "C"; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50 percent of all major course work must be completed at Cypress College.

Take any four of the following required core courses (12 units) plus one area of emphasis group of courses as listed below: (additional 12-18 units depending on emphasis group selected)

	Units
CIS 190 C Cybersecurity Competition Fundamentals	3
CIS 195 C Network Security	3
CIS 196 C Ethical Hacking	3
CIS 230 C Cisco Networking 1	3
CIS 245 C Perl Programming	3
	or
CIS 247 C Python Programming	(3)
Computer Forensics emphasis	Units
CIS 276 C Computer Forensics I	3
CIS 277 C Computer Forensics II	3
CIS 278 C Cyber Crime	3
CIS 279 C Computer Forensics Legal Aspects	3
CIS 280 C Analysis of Digital Media	3
CIS 281 C Computer Forensics Capstone	3
Cisco Networking emphasis	Units
CIS 231 C Cisco Networking 2	3
CIS 232 C Cisco Networking 3	3
CIS 233 C Cisco Networking 4	3
CIS 258 C CCNA Security	3
Homeland Transportation Security emphasis	Units
AJ 110 C Introduction to Criminal Justice	3
	or
AJ 120 C Concepts of Criminal Law	(3)
ATC 102 C Career Communication/Portfolio	3
ATC 112 C Homeland Security	3
ATC 116 C Aviation/Transportation Security	3
	or
ATC 256 C Crew Resource Management	(3)
ATC 118 C Disaster Preparedness and Response	3
ATC 274 C Passenger Services and Safety	3
Microsoft Networking emphasis	Units
CIS 185 C Administering Windows Server	3
CIS 189 C Administrating and Configuring Windows Server Directory Services	3
CIS 191 C Administrating and Configuring Windows Server Network Infrastructure	3
CIS 182 C Microsoft Networking Fundamentals	3
	or
CIS 187 C Microsoft Exchange and SharePoint Services	(3)
Network Virtualization emphasis	Units
CIS 185 C Administering Windows Server	3
CIS 189 C Administrating and Configuring Windows Server Directory Services	3
CIS 201 C Microsoft Virtualization and Cloud Deployment	3
CIS 202 C VMware vSphere Virtualization Networking	3

Advanced Networking emphasis (12 units)

Take 4 of the following courses:		Units
CIS 202 C	VMware vSphere Virtualization Networking	3
CIS 239 C	CCNA Bootcamp	3
CIS 240 C	Wireless Networking Technology	3
CIS 248 C	Voice Over IP	3
CIS 257 C	Storage Management and Cloud Computing	3
CIS 258 C	CCNA Security	3
Total Units		24–30

REVISED

ADVANCED NETWORKING CERTIFICATE

Program Code: 1C30332

This curriculum focuses on advanced networking concepts and emerging technologies such as network security, voice over IP, wireless networks, network virtualization, storage management and cloud computing. Students will be also prepared for the Cisco Certified Networking Associate (CCNA) certification exam. Special emphasis is on developing hands-on skills with the latest networking equipment and software. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Take 4 of the following courses:		Units
CIS 202 C	VMware vSphere Virtualization Networking	3
CIS 239 C	CCNA Bootcamp	3
CIS 240 C	Wireless Networking Technology	3
CIS 248 C	Voice Over IP	3
CIS 257 C	Storage Management and Cloud Computing	3
CIS 258 C	CCNA Security	3
Total Units		12

REVISED

COMPUTER FORENSICS CERTIFICATE

Program Code: 1C30328

The goal of this program is to equip students with the necessary skills and knowledge required to collect digital artifacts and present them to related parties as digital evidence. Students will learn how to process cases from start to finish in addition to the use of software toolkits. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Take a total of 3 units from the following courses:		Units
CIS 271 C	Computer Forensics in Practice	1
CIS 272 C	Computer Forensics New Challenge	1
CIS 273 C	Computer Forensics Tools	1
CIS 276 C	Computer Forensics I	3

Take all of the following required courses (15 units):		Units
CIS 277 C	Computer Forensics II	3
CIS 278 C	Cyber Crime	3
CIS 279 C	Computer Forensics Legal Aspects	3
CIS 280 C	Analysis of Digital Media	3
CIS 281 C	Computer Forensics Capstone	3
Total Units		18

NEW

CYBER DEFENSE CERTIFICATE

Program Code: 1C37247

The Cyber Defense certificate provides concepts and hands-on skills to identify Cybersecurity threats and implement procedures to protect Cyber assets. It will also enhance students’ chances to pursue a professional career in Cybersecurity by giving them various options to prepare for industry-recognized certificates such as Security+, CEH, CCNA, MCSE, ISM and CCNA Security. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Take any four of the following required core courses (12 units) plus one area of emphasis option

		Units
CIS 190 C	Cybersecurity Competition Fundamentals	3
CIS 195 C	Network Security	3
CIS 196 C	Ethical Hacking	3
CIS 230 C	Cisco Networking 1	3
CIS 245 C	Perl Programming	3
or		
CIS 247 C	Python Programming	(3)

Computer Forensics Option (18 units)

		Units
CIS 276 C	Computer Forensics I	3
CIS 277 C	Computer Forensics II	3
CIS 278 C	Cyber Crime	3
CIS 279 C	Computer Forensics Legal Aspects	3
CIS 280 C	Analysis of Digital Media	3
CIS 281 C	Computer Forensics Capstone	3

Cisco Networking Option (12 units)

		Units
CIS 231 C	Cisco Networking 2	3
CIS 232 C	Cisco Networking 3	3
CIS 233 C	Cisco Networking 4	3
CIS 258 C	CCNA Security	3

Homeland Transportation Security Option (18 units)

		Units
AJ 110 C	Introduction to Criminal Justice	3
or		
AJ 120 C	Concepts of Criminal Law	(3)
ATC 102 C	Career Communication/Portfolio	3
ATC 112 C	Homeland Security	3
ATC 116 C	Aviation/Transportation Security	3
or		
ATC 256 C	Crew Resource Management	(3)
ATC 118 C	Disaster Preparedness and Response	3
ATC 274 C	Passenger Services and Safety	3

Microsoft Networking Option (12 units)

		Units
CIS 185 C	Administering Windows Server	3
CIS 189 C	Administering and Configuring Windows Server Directory Services	3
CIS 191 C	Administering and Configuring Windows Server Network Infrastructure	3
CIS 182 C	Microsoft Networking Fundamentals	3
or		
CIS 187 C	Microsoft Exchange and SharePoint Services	(3)

Network Virtualization Option (12 units)

		Units
CIS 185 C	Administering Windows Server	3
CIS 189 C	Administering and Configuring Windows Server Directory Services	3
CIS 201 C	Microsoft Virtualization and Cloud Deployment	3
CIS 202 C	VMware vSphere Virtualization Networking	3

Advanced Networking Option (12 units)

Take 4 of the following courses:		Units
CIS 202 C	VMware vSphere Virtualization Networking	3
CIS 239 C	CCNA Bootcamp	3
CIS 240 C	Wireless Networking Technology	3
CIS 248 C	Voice Over IP	3
CIS 257 C	Storage Management and Cloud Computing	3
CIS 258 C	CCNA Security	3
Total Units		24–30

REVISED

CYBERSECURITY CERTIFICATE

Program Code: 1C33780

This curriculum prepares students to recognize Cybersecurity threats and implement procedures to protect computers, networks, programs and data from unintended or unauthorized access, change or destruction. It will also enhance students' chances to pursue a professional career in Cybersecurity by preparing them for industry-recognized certificates such as Security+ and Certified Ethical Hacker. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Take any four of the following courses:		Units
CIS 190 C	Cybersecurity Competition Fundamentals	3
CIS 195 C	Network Security	3
CIS 196 C	Ethical Hacking	3
CIS 230 C	Cisco Networking 1	3
CIS 245 C	Perl Programming	3
	or	
CIS 247 C	Python Programming	(3)
Total Units		12

REVISED

MICROSOFT NETWORKING CERTIFICATE

Program Code: 1C30331

This certificate program prepares students for a certificate in the administration of a Microsoft network in today's businesses. This program includes skills in planning, designing, implementing, and managing a Microsoft network. It is intended for those individuals who need to gain skills in day-to-day general network administration, configuration, and support tasks. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
CIS 185 C	Administering Windows Server	3
CIS 189 C	Administering and Configuring Windows Server Directory Services	3
CIS 191 C	Administering and Configuring Windows Server Network Infrastructure	3

Select one of the following: (3 units)		Units
CIS 182 C	Microsoft Networking Fundamentals	3
CIS 187 C	Microsoft Exchange and SharePoint Services	3
Total Units		12

REVISED

NETWORK VIRTUALIZATION CERTIFICATE

Program Code: 1C31329

This certificate is designed to provide students with the key virtualization techniques and the applications of virtualization technology in the design, planning, implementation, management, and evaluation of virtualized enterprise infrastructure including computational clouds. The certificate covers recent trends in virtualization including the current wave of virtualization technology from both VMware and Microsoft. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
CIS 185 C	Administering Windows Server	3
CIS 189 C	Administering and Configuring Windows Server Directory Services	3
CIS 201 C	Microsoft Virtualization and Cloud Deployment	3
CIS 202 C	VMware vSphere Virtualization Networking	3
Total Units		12

REVISED

PC/NETWORK HARDWARE SUPPORT CERTIFICATE

Program Code: 1C30330

This certificate is intended for those individuals who need to gain hands-on practice and competency in core hardware related to both PC and network operating system technologies. Upon completion of all required courses, students will be able to recognize major personal computer components including their functions, and configure the most common technical problems associated with a personal computer in both stand-alone and networking platforms. Special emphasis is focused on hands-on skills with PC hardware and software installation and troubleshooting in a networked environment. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
CIS 161 C	PC Operating System	3
CIS 162 C	PC/Network Hardware Support	3
CIS 164 C	Computer Desktop Support	3
CIS 182 C	Microsoft Networking Fundamentals	3
Total Units		12

REVISED

**SOCIAL MEDIA
MARKETING CERTIFICATE Program Code: 1C32651**

This program is designed for students to use social media tools to introduce and promote new products, enhance customer service, and obtain marketing research information. The curriculum focuses on principles of marketing, advertising and consumer behavior and Internet and web technologies as related to social media. To earn a certificate, students will complete the required courses as listed with a minimum grade of "C." At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence		Units
CIS 120 C	Social Media and Digital Marketing	3
CIS 221 C	Web Technology and Social Media	3
MKT 222 C	Principles of Marketing	3
MKT 103 C	Principles of Advertising	3
	or	
MKT 210 C	Consumer Behavior	(3)
	Total Units	12

REVISED

**TECHNOLOGY MANAGEMENT
CERTIFICATE Program Code: 1C33101**

This program is designed to provide students with the technical and administrative skills they need to manage workers and information in a computerized business office. It covers such key areas as the global business environment, human resource management, information systems, data communications, and project management. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Core Requirements		Units
CIS 160 C	Information Systems Management	3
	or	
CIS 182 C	Microsoft Networking Fundamentals	(3)
CIS 274 C	Project Management Fundamentals	3
MGT 161 C	Introduction to Business	3
MGT 262 C	Principles of Management	3
	or	
MGT 266 C	Human Relations in Business	(3)
	Total Units	12

REVISED

**WEB NETWORKING TECHNOLOGY
CERTIFICATE Program Code: 1C30329**

The Web Networking Technology Certificate is designed to prepare students with the focused knowledge and understanding of collaborative Web technologies. The curriculum covers the use of the Internet to enhance interconnectivity and interactivity of Web-delivered contents including information sharing, social networking, publishing and posting information on the Web, and Web feed and services. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
CIS 120 C	Social Media and Digital Marketing	3
CIS 121 C	Adobe PDF Document Management	3
CIS 221 C	Web Technology and Social Media	3
CIS 262 C	New Technology	3
	Total Units	12

CIS 160 C Information Systems Management 3 Units

Pass/No Pass/Letter Grade Option

Term hours: 54 lecture and 18 laboratory. This course is for students interested in managing a Computer Information Systems Center. The subject areas to be studied are planning, equipping, staffing, and managing a computerized business office. The student will use a computer spreadsheet and database in hands-on exercises in planning and managing an information systems office. \$3 materials fee payable at registration. (CSU)

CIS 245 C Perl Programming 3 Units

Term hours: 54 lecture and 18 laboratory. This hands-on course introduces students to the Perl and CGI programming language. Topics include syntax, basic scripting skills, arrays and hashes, I/O, regular expressions, and subroutines. The course also introduces object-oriented programming in Perl, as well as CGI.pm module and Perl web programming. Pass/No Pass/Letter Grade Option. \$3.00 Material Fee-Payable at Registration. (CSU) (UC)

CIS 247 C Python Programming 3 Units

Term hours: 54 lecture and 18 laboratory. In this class students will obtain a hands-on introduction to the Python language, Python tools, Python applications, and Python Web programming. Through lectures and laboratory work, students learn the skills of Python programming. Pass/No Pass/Letter Grade Option. \$3.00 Material Fee-Payable at Registration. (CSU) (UC)

COUN 100 C College Orientation 1 Unit

Advisory: This course is designed for students who are eligible for services from Disability Support Services (DSS).

Term hours: 18 lecture. This course will introduce students to campus support services, establish realistic goals, develop study skills, and discuss time management strategies. Students will learn about accessing accommodations on campus and in the community. Pass/No Pass (CSU) (UC)

COUN 105 C Stress and Anxiety Management 1 Unit

Term hours: 18 lecture. This course is designed to increase the student's awareness of the effects of stress and anxiety on academic performance and daily life. Emphasis will be placed on understanding effective and ineffective responses to stress and anxiety on planning a personal stress and anxiety management program. Students will explore and practice a variety of practical coping skills and management techniques. (CSU) (UC) CSU GE

COUN 160 C College/University Transition 1 Unit

Term hours: 18 lecture. This course is designed for the student and the parents of the student who plans to transfer to a college or university. Topics include the value of pursuing higher education, selection of a transfer institution, admissions, academic requirements, financial aid options, special programs, priority filing deadline, and developing an autobiographical essay. Duplicate Credit Not Granted For COUN 160HC. Pass/No Pass/Letter Grade Option. (CSU) (UC)

COUN 160HC Honors University Transition 1 Unit

Term hours: 18 lecture. This course is designed for the Honor Program student. It is an enhanced orientation to the transfer process. Topics include the value of pursuing higher education, selection of a transfer institution, admission, academic requirements, financial aid options, priority filing deadlines, developing an autobiographical essay and personal transfer portfolio. Emphasis will be placed on researching and evaluating transfer options. Duplicate credit not granted for COUN 160 C. Pass/No Pass/Letter Grade Option. (CSU) (UC)

REVISED

**COMPUTER EDITOR (SCOPIST)
CERTIFICATE** **Program Code: 1C07820**

**STUDENTS MUST FURNISH
THEIR OWN MACHINE AND PAPER**

The Computer Editor (Scopist) Certificate prepares the student for employment in the field of court reporting working one-on-one with a Certified Shorthand Reporter to prepare and edit official transcripts for court, depositions, hearings, and other venues. To earn a certificate, the student must complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
CIS 100 C	Introduction to Computer and Windows Concepts	3
	or	
CIS 111 C	Computer Information Systems	(3)
CIS 107 C	Introduction to Windows	2
CTRP 040 C	Beginning Machine Shorthand Theory	3
CTRP 041 C	Court Reporting Theory Review	3
CTRP 071 C	Legal Terminology and Rhetoric	3
CTRP 073AC	Spelling for Modern Business	1
CTRP 073BC	Punctuation for Court Reporting	1
CTRP 073CC	Formatting, Style and Usage	1
CTRP 097 C	Internship - Scoping and Editing	1.5

Electives: Select a minimum of four units from the following courses:		Units
CTRP 082 C	Computer Aided Transcription: ProCAT	1
CTRP 083 C	Computer Aided Transcription - Stenograph	2
CTRP 084 C	Computer Aided Transcription - Eclipse	2
HS 145 C	Survey of Medical Terminology	3
MGT 055 C	Business English	3
MGT 143 C	Introduction to Legal Research	1
CTRP 067 C	Basic Vocabulary Development	2
CTRP 068 C	Advanced Vocabulary Development	1.5
	Total Units	22.5

REVISED

**ASSOCIATE IN SCIENCE DEGREE LAW OFFICE
ADMINISTRATION** **Program Code: 1S32966**

This program prepares the student for a career in the legal arena. The curriculum is designed to develop a working knowledge of the legal field. To earn an Associate Degree students must complete (1) all major course requirements with a minimum grade of "C", (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective course to complete a minimum of 60 units; and (5) have a minimum GPA of 2.0. At least 50 percent of all major course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
CTRP 073AC	Spelling for Modern Business	1
CTRP 073BC	Punctuation for Court Reporting	1
CTRP 071 C	Legal Terminology and Rhetoric	3
CTRP 072 C	Legal Procedures	4
MGT 055 C	Business English	3
MGT 143 C	Introduction to Legal Research	1
CTRP 067 C	Basic Vocabulary Development	2
CTRP 068 C	Advanced Vocabulary Development	1.5
CTRP 076 C	Court and Deposition Procedures	1.5–3
CTRP 073DC	Proofreading	1
CTRP 073CC	Formatting, Style and Usage	1
CTRP 062 C	Notary Public Exam Preparation	0.5–1
CTRP 080 C	Internship: Law Office	2
	or	
CTRP 033 C	Internship: Agency Services	(2)
	or	
CTRP 034 C	Internship: Court Services	(2)
MGT 240 C	Legal Environment of Business	3
	Total Units	25.5 -27.5

REVISED

**COURT REPORTING TECHNOLOGY
CERTIFICATE** **Program Code: 1C33369**

This is an advanced certificate providing the student with an expanded background in computer assisted transcription (CAT) technology and realtime writing skills in order to be successful in the legal arena as a Certified Shorthand Reporter. To earn a certificate, the required courses are listed with a minimum grade of "C." At least 50 percent of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
CTRP 082 C	Computer Aided Transcription: ProCAT	1
	or	
CTRP 083 C	Computer Aided Transcription - Stenograph	(2)
	or	
CTRP 084 C	Computer Aided Transcription - Eclipse	(2)
CTRP 085 C	Computer Aided Transcription - Dictionary Building	2
CTRP 065 C	Advanced CAT Systems	2
CTRP 091 C	Advanced Dictionary Build	2
CTRP 092 C	Realtime Writing Concepts	2
CTRP 093 C	Information Technology-CTRP	2
CTRP 051 C	Court/Conference Reporting: Legal	3
CTRP 052 C	Court/Conference Reporting:Medical	3
CTRP 053 C	Court/Conference Reporting: Congressional	3
CTRP 039 C	Internship - Legal Transcription	3
	Total Units	23–24

CTRP 039 C Internship-Legal Transcription 3 Units

Pass/No Pass/Letter Grade Option.
Term hours: 36 lecture and 54 laboratory **TBA**. This course offers practical work experience in legal transcription for future employment in law offices, police departments, court reporting agencies, and other venues, Internship may be paid or unpaid. There will be 50 hours of internship, plus 10 hours of observation.

REVISED

ASSOCIATE IN ARTS DEGREE

DANCE

Program Code: 1A03781

Students will receive a well rounded dance education that will prepare them to transfer as dance majors or to teach, choreograph, and perform at various community and private venues. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of “C”; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required Courses	Units
DANC 101 C Multicultural Dance in the US	3
	or
DANC 100 C Introduction to Dance Appreciation	(3)
DANC 105 C Ballet I	2
DANC 106 C Ballet II	2
DANC 107 C Modern Dance I	2
DANC 108 C Modern Dance II	2
DANC 111 C Jazz Dance I	2
DANC 112 C Jazz Dance II	2
DANC 202 C Elements of Choreography	2
	or
DANC 109 C Dance Improvisation	(2)
DANC 141 C Performance Class I	3
	or
DANC 142 C Performance Class II	(2–3)
	or
DANC 143 C Performance Class III	(2–3)
	or
DANC 144 C Performance Class IV	(2–3)
Select 2 courses from the following:	Units
DANC 130 C Afro-Caribbean Dance	1
DANC 136 C Middle Eastern Dance	1
DANC 137 C Latin and Swing Dance	1
DANC 139 C Ballroom I	1
Select 2–3 units from the following:	Units
DANC 140 C Summer Dance Festival I	1.5–2
	or
DANC 145 C Summer Dance Festival II	(1.5–2)
DANC 203 C Dance Production I	0.5–2
	or
DANC 206 C Dance Production II	(0.5–2)
DANC 205 C Dance Ensemble	1–2
THEA 120 C Acting I	3
THEA 144 C Lighting Design Fundamentals	3
THEA 145 C Fundamentals of Costume Design	3
Total Units	23–25

REVISED

DANCE TEACHING CERTIFICATE

Program Code: 1C12959

This program is designed to prepare the student to teach dance at private dance studios and community centers. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Required courses (13 units) are listed in numeric sequence:		Units
DANC 106 C	Ballet II	2
DANC 108 C	Modern Dance II	2
DANC 109 C	Dance Improvisation	2
	or	
DANC 202 C	Elements of Choreography	(2)
DANC 116 C	Ballet III	2
DANC 117 C	Modern Dance III	2
DANC 230 C	Dance Teaching Methodologies	3
And an additional 5 units from the following:		Units
DANC 100 C	Introduction to Dance Appreciation	3
DANC 102 C	Pilates Mat Work	1
DANC 110 C	Adaptive Dance	1–2
DANC 111 C	Jazz Dance I	2
	or	
DANC 112 C	Jazz Dance II	(2)
DANC 113 C	Tap Dance I	1
	or	
DANC 114 C	Tap Dance II	(1)
DANC 115 C	Hip Hop Dance	1
DANC 130 C	Afro-Caribbean Dance	1
DANC 136 C	Middle Eastern Dance	1
DANC 137 C	Latin and Swing Dance	1
DANC 139 C	Ballroom I	1
DANC 140 C	Summer Dance Festival I	1.5–2
DANC 141 C	Performance Class I	2–3
	or	
DANC 142 C	Performance Class II	(2–3)
	or	
DANC 203 C	Dance Production I	(0.5–2)
	or	
DANC 206 C	Dance Production II	(0.5–2)
Total Units		18

DANC 102 C Pilates Mat Work 1 Unit

Term hours: 54 laboratory. This class is designed to prepare a student mentally and physically for dance. Students will learn Pilates floor mat exercises and a floor barre to increase flexibility, strength, body alignment with emphasis on strengthening the core muscle groups. Dance Concert admission may not exceed \$30. Pass/No Pass/Letter Grade Option. (CSU, UC Credit Limitation, **CSU GE**)

NEW

DANC 110 C Adaptive Dance 1 to 2 Units

Advisory: This course is designed, but not limited to, students with disabilities, registered with Disability Support Services (DSS).
 Term hours: 54–108. This course introduces special needs students to elements of several types of dance, including modern and contact improvisation. Students will expand their movement vocabulary using breath, gravity, connectivity, musicality and space. The course will enhance self confidence, dexterity, decision making and self awareness through the usage of several factors involved in the pedagogical process. (CSU) (UC)

REVISED

ASSOCIATE IN ARTS IN ECONOMICS FOR TRANSFER DEGREE (AA-T) Program Code: 1A35301

This curriculum is designed to provide an opportunity for the economics major to achieve an Associate in Arts in Economics (AA- T in economics) which completes the first and second year requirements for transfer to a four-year public California institution. This degree is designed to provide students with a comprehensive introduction to the two major fields of economics in order to give them the background knowledge needed by undergraduate economics majors. The coursework emphasizes the practical applications of economics and knowledge in a diversity of careers and the utility of economics perspectives as a life-long learning tool for interpreting world economic events. Students successfully completing the AA-T in Economics will acquire a fundamental knowledge base of economics, learn basic knowledge and possess a basic understanding of areas that have an interdisciplinary association to Economics. This degree will provide students with an introduction to the field and its applied areas. While at least a baccalaureate degree is recommended preparation for those seeking professional careers, completion of this degree is excellent general preparation for careers in academic and applied economics, research institutes, financial institutions, education, international economic systems, corporations, government, journalism and technical writing, non-profit organizations, and many other careers. It gives students a solid basis for many career paths and can be enhanced with multidisciplinary study in related fields. This curriculum specifically prepares the prospective transfer student for upper division coursework in Economics or a similar major at a California State University (CSU) campus. At the baccalaureate level students can continue an education in various areas of Economics including Comparative Economic Systems, Environmental Economics, American Economic History, International Economics, Economic Geography, and many more. Graduate study is important in Economics. Those holding a Master’s or Doctoral degree may find employment in college and university teaching and other educational institutions. Those without a graduate degree will find limited career opportunity in direct areas of Economics. Students should consult a counselor, the Transfer Center and the catalog of the transfer-college or university to plan a specific program of study to meet the college or university’s requirements. Note: Courses that fulfill major requirements for an Associate Degree for Transfer at Cypress College might not be the same as those required for completing the major at all transfer institutions offering a Baccalaureate Degree. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746–66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. Students completing the AA-T are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. To earn an AA-T in Economics students must complete: 1) a minimum of 20–22 semester or 30–33 quarter units in the Economics major with a minimum grade of “C”; (2) California State University General Education Breadth requirements (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (CSU IGETC); (3) completion of 60 semester of CSU transferable coursework; and (4) have an overall GPA of 2.0.

Required Core Courses (14 units):		Units
ECON 100 C	Principles of Economics-Macro or	3
ECON 100HC	Honors Principles of Economics	(3)
ECON 105 C	Principles of Economics-Micro or	3
ECON 105HC	Honors Principles of Economics	(3)
MATH 120 C	Introduction to Probability and Statistics	4
MATH 130 C	Survey of Calculus or	4
MATH 150AC	Calculus I	(4)
List A: Select One Course (3–5 units)		Units
MATH 115 C	Finite Mathematics	4
MATH 150BC	Calculus II	4
ACCT 101 C	Financial Accounting	5
CIS 111 C	Computer Information Systems	3
MGT 211 C	Writing for Business	3
List B: Select One Course (3–5 units) or any course not used in List A		Units
ACCT 102 C	Managerial Accounting	5
ECON 110 C	Survey of Economics	3
ECON 120 C	International Economics	3
ECON 130 C	Consumer Economics	3
MATH 250AC	Multivariable Calculus	4
Total Units		20–24

REVISED

ASSOCIATE IN SCIENCE DEGREE ENERGY AND SUSTAINABLE TECHNOLOGIES Program Code: 1S35037

The following program is designed to prepare students for employment emerging industry of sustainable energy technologies. Training is given in both theory and practical skills. Directed practical work is given in all areas of energy technology maintenance and repair under simulated on-the-job conditions. The sequence in which courses are taken may be modified to meet individual needs. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of “C”; (2) 25 units of General Education Graduation Requirements; (3) any elective courses to complete a minimum of 60 units; and, (4) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses are listed in suggested sequence:		Units
EST 100 C	Renewable and Sustainable Energy	3
EST 110 C	Tools and Safety	2
EST 120 C	Digital Controls and Inverters	2
AC/R 100 C	Principles of Thermodynamics and Heat Transfer	3
AC/R 105 C	Electricity for Air Conditioning and Refrigeration I	3
EST 130 C	Solar Photovoltaics-install	3
	or	
EST 135 C	Solar Concentrators-Hot Water	(3)
EST 140 C	Wind Turbine Drive Trains	3
	or	
EST 145 C	Wind Turbine Power Generation	(3)
EST 150 C	Advanced Geo-thermal Concepts	3
MATH 100 C	Liberal Arts Mathematics	3
PHYS 130 C	Elementary Physics	4
	Total Units	29

ENGR 201 C Statics 3 Units

(C-ID: ENGR 130)

Prerequisite: ENGR 110 C, PHYS 221 C, and MATH 150AC with a grade of "C" or higher.

Term hours: 54 lecture. This course includes the study of properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia. Optional additional topics include fluid statics, cables, Mohr's circle and virtual work. (CSU) (UC)

ENGR 210 C Electric Circuits Analysis 5 Units

(C-ID ENGR 260, ENGR 260L)

Prerequisite: PHYS 222 C and ENGR 110 C, with a grade of C or better. Corequisite: MATH 250BC with a grade of C or better.

Term hours: 72 lecture and 54 laboratory. The course consists of an introduction to analysis of circuits under steady state and transient conditions. Analysis techniques include nodal analysis, loop analysis, superposition method, Thevenin's Theorem, Norton's Theorem and source transformation. RLC circuits are analyzed under DC, AC – steady state and transient conditions using multiple methods including bode diagrams, Fourier and Laplace transforms. Also consists of an analysis of circuits under steady state and transient conditions; network theorems, RLC circuits analyzed under DC, AC-steady state and transient conditions using multiple methods. (CSU) (UC)

REVISED

ASSOCIATE IN SCIENCE DEGREE

PRE-ENGINEERING

Program Code: 1S03770

This Pre-Engineering program is designed to prepare students for junior standing at most CSU and UC institutions. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of "C"; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required Courses are listed in suggested sequence:		Units
MATH 150AC	Calculus I	4
MATH 150BC	Calculus II	4
MATH 250AC	Multivariable Calculus	4
MATH 250BC	Linear Algebra and Differential Equations	5
PHYS 221 C	General Physics I	4
PHYS 222 C	General Physics II	4
PHYS 223 C	General Physics III	4
CHEM 111AC	General Chemistry I	5
ENGR 110 C	Introduction to Engineering	3
ENGR 201 C	Statics	3
ENGR 210 C	Electric Circuits Analysis	5

List A: Select 2 courses from the following: Units

ENGR 220 C	Programming and Problem-Solving in MATLAB	3
CHEM 112 C	General Chemistry II for Engineers	4
ENGR 205 C	Advanced 3D Solid Modeling and Simulation	3
ENGR 102 C	Engineering Design Graphics	3
	Total Units	51–52

ENGR 205 C Advanced 3D Solid Modeling and Simulation 3 Units

Prerequisite: ENGR 102 C with a minimum grade of "C". MATH 142 C with a grade of "C" or better.

Term Hours: 36 lecture and 72 laboratory. Advanced course in Computer Aided Design starting from sketches and proceeding to solid modeling, simulation, animation and motion analysis, creation of bill of material, conversion to stereolithography files and G-codes for rapid prototyping purposes, with emphasis on industrial practice involving component and assembly modeling for actual products. Standards, Tolerances, surface finishes and other attributes of drawings to be addressed with projects involving systems and subsystems. (CSU) (UC)

ENGR 220 C Programming and Problem-Solving in MATLAB 3 Units

(C-ID: ENGR 220)

Prerequisite: MATH 150AC with a minimum grade of "C".

Term hours: 36 lecture and 72 laboratory. This course utilizes the MATLAB environment to provide students with a working knowledge of computer-based problem-solving methods relevant to science and engineering. It introduces the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Examples and assignments in the course are drawn from practical applications in engineering, physics, and mathematics. (CSU) (UC)

ENGL 248 C Science Fiction 3 Units

Prerequisite: A minimum grade of "C" in ENGL 100 C or ENGL 100HC

Advisory: ENGL 102 C or ENGL 102HC.

Term hours: 54 lecture. This course is a survey of science fiction and speculative fiction. This course emphasizes the literary, social, economic, cultural and environmental contexts of representative works and traces the development of the genre from early scientific romances and speculative works through current trends. (CSU) (UC) AA GE, CSU GE, IGETC

REVISED

**ASSOCIATE IN ARTS DEGREE
IN AFRICAN-AMERICAN
STUDIES**

Program Code: 1A19682

The Associate in Arts Degree in African-American Studies is designed to provide students with a multi-disciplinary and interdisciplinary examination of the experiences of persons of African descent in the United States. Students will analyze issues pertaining to the African-American community in particular while holistically developing a critical understanding of race, ethnicity, class, and gender in American society. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of “C”; (2) California State University General Education Breadth requirements (CSU GE Breadth) or IGETC general education plan; (3) any elective courses to complete a minimum of 60 units; (4) complete all graduation requirements; and (5) have an overall GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Students pursuing more than one specified departmental/area major may double count a maximum of 7 units to fulfill major requirements. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses (12 units):		Units
ETHS 101 C	American Ethnic Studies	3
	or	
ETHS 101HC	Honors American Ethnic Studies	(3)
ETHS 129 C	Introduction to African-American Studies	3
ETHS 130 C	African-American History I	3
ETHS 131 C	African-American History II	3

Three (3) units from the following elective courses related to the African-American experience:		Units
ENGL 255 C	African-American Literature I	3
ENGL 256 C	African-American Literature II	3
ETHS 235 C	American Social Justice Movements	3
HIST 135 C	History of Africa	3
MUS 113 C	Jazz History	3
POSC 209 C	Urban Politics	3

Three (3) units from the following elective courses:		Units
ETHS 150 C	Introduction to Chicana-o Studies	3
ETHS 151 C	Chicana-o History I	3
ETHS 152 C	Chicana-o History II	3
ETHS 153 C	Chicana-o Contemporary Issues	3
ETHS 160 C	Native American History	3
ETHS 170 C	Introduction to Asian Pacific American Studies	3
ETHS 171 C	Asian Pacific American History	3
Total Units		18

REVISED

**ASSOCIATE IN ARTS DEGREE
IN CHICANA/O STUDIES** **Program Code: 1A19606**

The Associate in Arts Degree in Chicana/o Studies is designed to provide students with a multi-disciplinary and interdisciplinary examination of the experiences of persons of Mexican descent in the United States. Students will analyze issues pertaining to the Chicana/o (Mexican-American) community in particular while holistically developing a critical understanding of race, ethnicity, class, and gender in American society. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of “C”; (2) California State University General Education Breadth requirements (CSU GE Breadth) or IGETC general education plan; (3) any elective courses to complete a minimum of 60 units; (4) complete all graduation requirements; and (5) have an overall GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Students pursuing more than one specified departmental/area major may double count a maximum of 7 units to fulfill major requirements. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses (15 units):		Units
ETHS 101 C	American Ethnic Studies	3
	or	
ETHS 101HC	Honors American Ethnic Studies	(3)
ETHS 150 C	Introduction to Chicana-o Studies	3
ETHS 151 C	Chicana-o History I	3
ETHS 152 C	Chicana-o History II	3
ETHS 153 C	Chicana-o Contemporary Issues	3

Three (3) units from the following elective courses:		Units
ANTH 225 C	Ancient Cultures of Mexico and Central America	3
ART 216 C	Latin American Art	3
ETHS 129 C	Introduction to African-American Studies	3
ETHS 130 C	African-American History I	3
ETHS 131 C	African-American History II	3
ETHS 160 C	Native American History	3
ETHS 170 C	Introduction to Asian Pacific American Studies	3
ETHS 171 C	Asian Pacific American History	3
ETHS 235 C	American Social Justice Movements	3
HIST 142 C	History of Latin America I	3
HIST 143 C	History of Latin America II	3
HIST 163 C	History of Mexico	3
HIST 190 C	History of the Americas I	3
HIST 191 C	History of the Americas II	3
HIST 275 C	History of California	3
Total Units		18

REVISED

ASSOCIATE IN ARTS DEGREE

ETHNIC STUDIES

Program Code: 1A03807

The Associate in Arts Degree in Ethnic Studies is designed to provide students with a comparative, multi-disciplinary, and interdisciplinary understanding of the experiences of African Americans, Asian Pacific Americans, Chicanos/Latinos, and Native Americans. Students study the histories, cultures, literatures, and politics of communities of color in the United States so that they can critically analyze issues pertaining to race, ethnicity, class, and gender while developing an appreciation for the cultural diversity of American society. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of "C"; (2) California State University General Education Breadth requirements (CSU GE Breadth) or IGETC general education plan; (3) any elective courses to complete a minimum of 60 units; (4) complete all graduation requirements; and (5) have an overall GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Students pursuing more than one specified departmental major may double count a maximum of 7 units to fulfill major requirements. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses (15 units):		Units
ETHS 101 C	American Ethnic Studies	3
	or	
ETHS 101HC	Honors American Ethnic Studies	(3)
ETHS 129 C	Introduction to African-American Studies	3
ETHS 150 C	Introduction to Chicana-o Studies	3
ETHS 160 C	Native American History	3
ETHS 170 C	Introduction to Asian Pacific American Studies	3
Three (3) units from the following elective courses:		Units
ANTH 121 C	Native North America	3
ANTH 225 C	Ancient Cultures of Mexico and Central America	3
ART 216 C	Latin American Art	3
ENGL 208 C	Asian American Literature	3
ENGL 247 C	Multicultural Literature	3
ENGL 255 C	African-American Literature I	3
ENGL 256 C	African-American Literature II	3
ETHS 130 C	African-American History I	3
ETHS 131 C	African-American History II	3
ETHS 151 C	Chicana-o History I	3
ETHS 152 C	Chicana-o History II	3
ETHS 153 C	Chicana-o Contemporary Issues	3
ETHS 171 C	Asian Pacific American History	3
ETHS 235 C	American Social Justice Movements	3
HIST 135 C	History of Africa	3
HIST 142 C	History of Latin America I	3
HIST 143 C	History of Latin America II	3
HIST 160 C	Asian Civilizations I	3
HIST 161 C	Asian Civilizations II	3
HIST 163 C	History of Mexico	3
HIST 275 C	History of California	3
POSC 209 C	Urban Politics	3
PSY 131 C	Cross-Cultural Psychology	3
THEA 107 C	Diversity in American Theater	3
	or	
THEA 107HC	Honors Diversity in American Theater	(3)
Total Units		18

GEOG 230 C Introduction to GIS

3 Units

(C-ID: GEOG 155)

Term hours: 90 lecture. This course will introduce the student to Geographic Information Systems technology and software. Students will be taught how to retrieve and apply data in their chosen business and/or academic area of interest. \$4.00 Materials Fee-Payable at Registration. (CSU) (UC)

GEOG 232 C GIS: Analysis and Modeling

3 Units

Prerequisite: GEOG 230 C with a grade of "C" or better.

Term hours: 36 lecture and 54 laboratory. This course introduces students to advanced topics, techniques, and analysis in Geographic Information Systems (GIS). Students will retrieve and apply data in their chosen business or academic area of interest. \$4.00 Materials Fee-Payable at Registration. (CSU) (UC)

GEOG 234 C Current Topics in GIS

3 Units

Term hours: 36 lecture and 54 laboratory. This is an advanced lecture/discussion project type course designed to cover current issues and advances in Geographic Information Systems. It is designed for students who have experience in GIS applications and wish to update their knowledge and working skills. A final semester project, utilizing GIS for a project chosen by the student will be required. \$4.00 Material Fee-Payable at Registration. (CSU) (UC)

NEW

HS 361 C Dying/Death and Grief/Mourning

3 Units

Prerequisite: PSY 101 C or SOC 101 C.

Term hours: 54 lecture. This course is designed for upper division baccalaureate degree students interested in developing their conceptual frameworks and cognitive theories about death, dying, and grief, and increasing affective development and sensitivity to issues concerning death, dying, and grief. Students will become aware and sensitized to their personal assumptions, biases, attitudes, and reactions to death, dying, and grief, while increasing death competency and lowering death anxiety in order to demonstrate increased sensitivity, awareness, and skills in coping with loss and bereavement, supporting others in their struggle to deal with death issues, and by finding meaning and personal growth through encounters with death, loss, and grief. Enrollment limited to those accepted into the baccalaureate degree pilot program (CSU)

REVISED

**GERONTOLOGY
CERTIFICATE**

Program Code: 1C07842

The Gerontology Certificate Program in Human Services is a collection of interdisciplinary courses that prepare students to bring expertise, intervention skills and understanding about the aging adult to work and to family settings. Older adult development, and adaptive and maladaptive behaviors of the normal aging process are explored. Emphasis will be placed on critical life issues such as health, mental health, care giving, social support, living arrangements, work and retirement, and human service resources. Death and dying, and the ethical issues that often occur during the last years of life will be examined. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Required core (12 units) courses are listed in suggested sequence:

	Units
HUSR 200 C Introduction to Human Services	3
HUSR 275 C Ethical Issues in Human Services	3
HUSR 210 C Introductory Fieldwork	3
SOC 250 C Sociology of Aging	3
or	
HUSR 250 C Sociology of Aging	(3)

Select 3 units from the elective courses listed below.

	Units
PSY 255 C Psychology of Aging	3
HUSR 255 C Psychology of Aging	3
HUSR 215 C Introduction to Family Studies	3
HUSR 221 C Crisis Intervention and Referral	3
PSY 120 C Human Sexuality	3
KIN 235 C First Aid, CPR and Emergencies	3
Total Units	15

REVISED

**VICTIMOLOGY
CERTIFICATE**

Program Code: 1C07847

The study of Victimology explores the costs of victimization in our society today and the variety of methods, current and proposed, for dealing with the issues. Courses provide an in-depth examination of both the victim and the perpetrator. Resources for victims of violent and non-violent crimes are discussed and professionals present various points of view. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Required courses (24 units) are listed in suggested sequence:

	Units
HUSR 200 C Introduction to Human Services	3
HUSR 275 C Ethical Issues in Human Services	3
HUSR 223 C Helping Skills-Human Services	3
HUSR 270 C Introduction to Victimology	3
HUSR 271 C Society and Victimization	3
HUSR 290 C Human Services in Criminal Justice	3
HUSR 210 C Introductory Fieldwork	3
HUSR 211 C Advanced Fieldwork	3

Electives (Select 6 units from below.)

	Units
PSY 139 C Developmental Psychology	3
HUSR 221 C Crisis Intervention and Referral	3
HUSR 222 C Group Leadership-Group Process	3
HUSR 224 C Self-Esteem Strategies	3
HUSR 225 C Families and Substance Abuse	3
HUSR 226 C Behavior Modification	3
HUSR 240 C Drugs and Alcohol in Our Society	3
HUSR 295 C Cross-Cultural Criminology	3
Total Units	30

REVISED

**ASSOCIATE IN ARTS IN
KINESIOLOGY FOR TRANSFER
DEGREE (AA-T)**

Program Code: 1A32135

This curriculum is designed to provide an opportunity for the Kinesiology major to achieve an Associate in Arts in Kinesiology for Transfer (AA-T in Kinesiology) which completes the first and second year requirements for transfer to a four-year public California institution. While at least a baccalaureate degree is recommended preparation for those considering professional careers, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for further academic study through upper-division course work. This curriculum specifically prepares the prospective transfer student for upper division coursework in Kinesiology or a similar major at a California State University (CSU) campus. Students should consult a counselor, the Transfer Center and the catalog of the transfer college or university to plan a specific program of study to meet the college or university's requirements. Note: Courses that fulfill major requirements for an Associate Degree for Transfer at Cypress College might not be the same as those required for completing the major at all transfer institutions offering a Baccalaureate Degree. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746–66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The AS-T is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. Students with a degree in Kinesiology may pursue careers in a variety of health science professions including physical training, physical therapy, fitness instruction, coaching and athletics. The completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work. To earn an AA-T in Kinesiology students must complete the following requirements: (1) a minimum of 18 semester units or 27 quarter units in the major or area of emphasis as determined by the community college district, (2) earn a grade of C or better in all courses required for the major or area of emphasis, (3) the California State University General Education Breadth requirements (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern, (4) 60 semester or 90 quarter CSU-transferable units, and (5) obtainment of a minimum grade point average (GPA) of 2.0.

Required Core Courses: 11 units

	Units
KIN 230 C Introduction to Kinesiology	3
BIOL 231 C General Human Anatomy	4
and	
BIOL 241 C General Human Physiology	4

Select 1 unit from three of the following areas:

Aquatics

KIN 111 C	Swimming	0.5–1
KIN 112 C	Swimming - Intermediate-Advanced	0.5–1
KIN 114 C	Springboard Diving	0.5–1
KIN 116 C	Swim for Fitness	0.5–1
KIN 117 C	Water Aerobics	0.5–1

Combatives

KIN 120 C	Kick-Boxing	0.5–1
KIN 121 C	Self Defense	0.5–1

Fitness

KIN 128 C	Yoga-Intermediate	0.5–1
KIN 129 C	Vinyasa Yoga	0.5–1
KIN 130 C	Yoga	0.5–1
KIN 131 C	Restorative Yoga	0.5–1
KIN 132 C	Hatha Yoga	0.5–1
KIN 133 C	Cardiovascular Conditioning	0.5–1
KIN 134 C	Walking for Fitness	0.5–1
KIN 135 C	Step Aerobics	0.5–1
KIN 136 C	Step Aerobics Intermediate	0.5–1
KIN 137 C	Mountaineering and Rock Climbing	0.5–1
KIN 138 C	Body Sculpt	0.5–1
KIN 139 C	Cardio Blast	0.5–1
KIN 140 C	Fitness Training	0.5–1
KIN 142 C	Power Training	0.5–1
KIN 143 C	Strength Training	0.5–1
KIN 144 C	HIIT- High Intensity Interval Training	0.5–1
KIN 145 C	Boot Camp Workout	0.5–1
KIN 146 C	Cardio Core	0.5–1
KIN 147 C	Body Building and Development	0.5–1
KIN 148 C	Total Body Fitness	0.5–1
KIN 149 C	Weight Training and Lifting	0.5–1
KIN 150 C	Trail Hiking	0.5–1
KIN 151 C	Spinning-Beginning	0.5–1
KIN 152 C	Spinning-Intermediate	0.5–1
KIN 198 C	Athletic Weight Training	0.5–3
KIN 199 C	Conditioning for Athletes	0.5–3

Individual Sports

KIN 160 C	Badminton	0.5–1
KIN 163 C	Table Tennis	0.5–1
KIN 164 C	Bowling - Beginning	0.5–1
KIN 165 C	Bowling - Intermediate	0.5–1
KIN 166 C	Bowling - Advanced	0.5–1
KIN 167 C	Gymnastics-Tumbling	0.5–1
KIN 168 C	Tennis - Beginning	0.5–1
KIN 169 C	Tennis-Intermediate	0.5–1
KIN 170 C	Tennis-Advanced	0.5–1
KIN 171 C	Golf-Beginning	0.5–1
KIN 172 C	Golf-Intermediate	0.5–1
KIN 173 C	Golf-Advanced	0.5–1
KIN 174 C	Pickleball	0.5–1

Team Sports

KIN 180 C	Futsal-Indoor Soccer	0.5–1
KIN 181 C	Futsal-Intermediate	0.5–1
KIN 182 C	Futsal-Advanced	0.5–1
KIN 183 C	Volleyball - Beginning	0.5–1
KIN 184 C	Volleyball - Intermediate	0.5–1
KIN 185 C	Volleyball - Advanced	0.5–1
KIN 186 C	Beach Volleyball - Beginning	0.5–1
KIN 187 C	Beach Volleyball - Intermediate	0.5–1
KIN 188 C	Beach Volleyball - Advanced	0.5–1
KIN 189 C	Basketball - Beginning	0.5–1
KIN 190 C	Basketball - Intermediate	0.5–1
KIN 191 C	Basketball - Advanced	0.5–1
KIN 192 C	Water Polo	0.5–1
KIN 193 C	Soccer-Women	0.5–1
KIN 194 C	Softball	0.5–1
KIN 195 C	Baseball	0.5–1
KIN 196 C	Soccer-Men	0.5–1
KIN 197 C	Flag Football	0.5–1

List A: Select two courses (7–9 units) from the following:

MATH 120 C	Introduction to Probability and Statistics or	4
PSY 161 C	Probability and Statistics-Social Sciences or	(4)
PSY 161HC	Honors Probability and Statistics-Social Sciences or	(4)
SOC 161 C	Probability and Statistics-Social Sciences or	(4)
SOC 161HC	Honors Probability and Statistics-Social Sciences	(4)
CHEM 101 C	Chemistry for Health Science Majors I or	4
CHEM 107 C	Preparation for General Chemistry or	(5)
CHEM 111AC	General Chemistry I	(5)
PHYS 201 C	College Physics I	4
KIN 235 C	First Aid, CPR and Emergencies	3

Total Units

21–23

REVISED

ASSOCIATE IN ARTS DEGREE

KINESIOLOGY

Program Code: 1A03769

This program is designed to prepare students with a knowledgeable base of physical fitness, health practices, and professional activities for entry into the discipline of physical education/athletics. Further specialization is possible by combining the Associate of Arts Degree with electives chosen from a certificate program in fitness, aquatics, or coaching. A student may also elect to work toward a transfer program preparing for entry to a four-year institution. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of “C”; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses are listed in suggested sequence:		Units
BIOL 101 C	General Biology or	4
BIOL 101HC	Honors General Biology or	(4)
BIOL 102 C	Human Biology or	(3)
BIOL 160 C	Integrated Medical Science or	(3)
BIOL 210 C	Anatomy and Physiology or	(5)
BIOL 231 C	General Human Anatomy	(4)
KIN 230 C	Introduction to Kinesiology	3
KIN 284 C	Contemporary Personal Health or	3
KIN 244 C	Human Performance	(3)
KIN 235 C	First Aid, CPR and Emergencies or	3
KIN 249 C	Sport and United States Society and	(3)
Choose at least 3 units from Physical Education activity courses 100–222		3

Electives

Choose 3–4 units

		Units
KIN 231 C	Elementary School Movement-Kinesiology	3
KIN 236 C	Athletic Injuries-Prevention and Care	3
KIN 240 C	Sports Officiating	3
KIN 241 C	Theory of Coaching Basketball	3
KIN 242 C	Theory of Coaching Baseball	3
KIN 247 C	Sports Management	3
KIN 248 C	Psychology of Sport	3
KIN 270 C	Nutrition Science and Application	3
KIN 271 C	Movement Anatomy	3
KIN 272 C	Strength and Conditioning	3
KIN 273 C	Exercise Physiology	3
KIN 274 C	Exercise Testing and Prescription	3
BIOL 241 C	General Human Physiology	4
HRC 100 C	Nutrition	3
REC 101 C	Principles of Community Recreation	3

Total Units

18–21

NEW

ASSOCIATE IN SCIENCE IN PUBLIC HEALTH

FOR TRANSFER

Program Code: 1S37128

This curriculum is designed to provide an opportunity for the Public Health major to achieve an Associate in Science in Public Health for Transfer (AS-T in Public Health) which completes the first and second year requirements for transfer to a four-year public California institution. While at least a baccalaureate degree is recommended preparation for those considering professional careers, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for further academic study through upper-division course work. This curriculum specifically prepares the prospective transfer student for upper division coursework in Public Health or a similar major at a California State University (CSU) campus. Students should consult a counselor, the Transfer Center and the catalog of the transfer college or university to plan a specific program of study to meet the college or university's requirements. Note: Courses that fulfill major requirements for an Associate Degree for Transfer at Cypress College might not be the same as those required for completing the major at all transfer institutions offering a Baccalaureate Degree. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746–66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The AS-T is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. Students with a degree in Public Health may pursue careers in a variety of health-related professions with employment opportunities in private, state, federal, corporate, and non-profit sector. The completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work. To earn an AS-T in Public Health students must complete the following requirements: (1) a minimum of 18 semester units or 27 quarter units in the major or area of emphasis as determined by the community college district, (2) earn a grade of C or better in all courses required for the major or area of emphasis, (3) the California State University General Education Breadth requirements (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern, (4) 60 semester or 90 quarter CSU-transferable units, and (5) obtainment of a minimum grade point average (GPA) of 2.0.

Required Core Courses: 29–30 units		Units
KIN 284 C	Contemporary Personal Health	3
KIN 280 C	Introduction to Public Health	3
BIOL 231 C	General Human Anatomy	4
BIOL 241 C	General Human Physiology	4
MATH 120 C	Introduction to Probability and Statistics	4
	or	
PSY 161 C	Probability and Statistics-Social Sciences	(4)
	or	
PSY 161HC	Honors Probability and Statistics-Social Sciences	(4)
	or	
SOC 161 C	Probability and Statistics-Social Sciences	(4)
	or	
SOC 161HC	Honors Probability and Statistics-Social Sciences	(4)
BIOL 101 C	General Biology	4
	or	
BIOL 101HC	Honors General Biology	(4)
CHEM 101 C	Chemistry for Health Science Majors I	4
	or	
CHEM 111AC	General Chemistry I	(5)
PSY 101 C	Introduction to Psychology	3
	or	
PSY 101HC	Honors Introduction to Psychology	(3)
List A: Select one course (3 units)		Units
ECON 105 C	Principles of Economics-Micro	3
ECON 105HC	Honors Principles of Economics	3
ECON 100 C	Principles of Economics-Macro	3
ECON 100HC	Honors Principles of Economics	3
KIN 270 C	Nutrition Science and Application	3
HRC 100 C	Nutrition	3
PSY 120 C	Human Sexuality	3
KIN 281 C	Health and Social Justice	3
SOC 101 C	Introduction to Sociology	3
SOC 101HC	Honors Introduction to Sociology	3
KIN 235 C	First Aid, CPR and Emergencies	3
Total Units		32–33

REVISED

AQUATICS SPECIALIST CERTIFICATE

Program Code: 1C07829

Primary emphasis is to prepare the student for occupational competency in swimming instruction as recommended by the state of California and the American Red Cross. All students must complete at least 16 units. Course work in KIN 235 C, KIN 237 C, and KIN 238 C may be waived with current Red Cross cards in First Aid and CPR, Life Guarding and Water Safety Instruction at the discretion of the division. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses:		Units
KIN 112 C	Swimming - Intermediate-Advanced	1
KIN 235 C	First Aid, CPR and Emergencies	3
KIN 255 C	Lifeguarding	1
KIN 256 C	Water Safety Instruction	2
Select 3 units		Units
KIN 114 C	Springboard Diving	1
KIN 192 C	Water Polo	1
KIN 116 C	Swim for Fitness	1
KIN 117 C	Water Aerobics	1
KIN 110 C	Surfing	1
Select 6 units		Units
KIN 247 C	Sports Management	3
KIN 248 C	Psychology of Sport	3
KIN 270 C	Nutrition Science and Application	3
Total Units		16

REVISED

ATHLETIC COACH CERTIFICATE

Program Code: 1C07830

Primary emphasis is to prepare the student for occupational coaching at various levels. All students must complete at least 18 units. Course work in KIN 235 C may be waived with current Red Cross cards in First Aid and CPR at the discretion of the division. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required Courses		Units
KIN 270 C	Nutrition Science and Application	3
KIN 271 C	Movement Anatomy	3
KIN 272 C	Strength and Conditioning	3
KIN 235 C	First Aid, CPR and Emergencies	3
	or	
KIN 236 C	Athletic Injuries-Prevention and Care	(3)
KIN 248 C	Psychology of Sport	3
Select 3 units from the electives listed below		Units
Activity courses KIN 100–199		0.5–1
KIN 240 C	Sports Officiating	3
KIN 241 C	Theory of Coaching Basketball	3
KIN 242 C	Theory of Coaching Baseball	3
KIN 273 C	Exercise Physiology	3
KIN 247 C	Sports Management	3
KIN 249 C	Sport and United States Society	3
Total Units		18

REVISED

**FITNESS SPECIALIST
CERTIFICATE**

Program Code: 1C07828

Primary emphasis is to prepare the student for occupational competency in private and corporate fitness industry. All students must complete at least 18 units. Course work in KIN 235 C may be waived with current Red Cross cards in First Aid and CPR at the discretion of the division. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses:		Units
KIN 271 C	Movement Anatomy	3
KIN 270 C	Nutrition Science and Application	3
KIN 272 C	Strength and Conditioning	3
KIN 235 C	First Aid, CPR and Emergencies	3
KIN 273 C	Exercise Physiology	3
KIN 274 C	Exercise Testing and Prescription	3
Additional suggested coursework: (not required)		Units
Activity courses KIN 100–199		0.5–1
KIN 248 C	Psychology of Sport	3
KIN 236 C	Athletic Injuries-Prevention and Care	3
Total Units		18

KIN 128 C Yoga-Intermediate .5 to 1 Units

Advisory: Students should have taken KIN 130 C or demonstrate intermediate yoga practitioners skills.

Term hours: 27–54 hours activity depending on units attempted. This is an intermediate course in yoga, an integrated study of health. It involves the investigation and practice of breathing techniques, yoga postures (asanas), and meditation and relaxation. Emphasis is on practicing the principles of pranayama (breathing) and deep relaxation to reduce stress, improving concentration, circulation and flexibility, and unifying body, mind and spirit. The asana portion will include intermediate level poses. (CSU) (UC) AA GE, CSU GE

KIN 129 C Vinyasa Yoga .5 to 1 Units

Term hours: 27–54 hours activity depending on units attempted. This is a basic course in yoga. It involves the investigation and practice of breathing techniques, yoga postures (asanas), and meditation. Emphasis is on practicing the principles of pranayama (breathing), improving concentration, and unifying body, mind and spirit during vinyasa practice. Pass/No Pass/Letter Grade Option (CSU) (UC) AA GE, CSU GE

KIN 150 C Trail Hiking .5 to 1 Units

Advisory: Students should be able to complete a 1.0 mile walk within 20 minutes.

Term hours: 27–54 hours of activity depending on units attempted. Exploration of scenic trails including the coast, canyons, parks, hills, and open space areas. Trails are off-campus and students must provide their own transportation. Pass/No Pass/Letter Grade Option. (CSU) (UC) AA GE, CSU GE

KIN 151 C Spinning-Beginning .5 to 1 Units

Term Hours: 27–54 lab hours depending on units attempted. Spinning is a unique, indoor, group stationary cycling program. This efficient, high-energy group exercise integrates music and cycling in a complete exercise routine. Spinning accommodates everyone's individual needs and abilities. (CSU) (UC) AA GE, CSU GE

KIN 152 C Spinning-Intermediate .5 to 1 Units

Term Hours: 27–54 lab hours depending on units attempted. Spinning is a unique, indoor, group stationary cycling program. This efficient, high-energy group exercise integrates music and cycling in a complete exercise routine and is designed for those who have prior experience. Spinning accommodates everyone's individual needs and abilities. (CSU) (UC) AA GE, CSU GE

NEW

KIN 153 C Spinning – Advanced .5 to 1 Units

Advisory: KIN 152 C.

Pass/No Pass/Letter Grade option.

Term Hours: 27–54 hours lab. This course is a unique, indoor group stationary cycling program. This efficient, high-energy group exercise integrates music and cycling in a complete exercise routine and is designed for those who have at least intermediate experience. Spinning accommodates everyone's individual needs and abilities. (CSU) (UC Credit Limitation) AA GE, CSU GE

KIN 174 C Pickleball .5 to 1 Units

Term Hours: 27–54 hours of lab activity depending on units attempted. Development of beginning-level playing and competitive skills in the paddle sport of pickleball. Instruction in the beginning skills, techniques, strategies, along with rules and etiquette. Pickleball features simple rules and is easy to learn. Because beginners can enjoy the sport almost immediately, while advanced players experience it as a fast-paced, highly competitive game, pickleball is suitable for individuals of all ages, fitness levels and athletic abilities. (CSU) (UC) AA GE, CSU GE

KIN 207 C Intercollegiate Golf-Women 3 Units

Prerequisite: Must meet the California Community College Athletics Association (CCCCAA) eligibility requirements and pass a physical examination prior to intercollegiate competition.

Term hours: 175 activity. This course is designed for the advanced golfer wanting to participate on the intercollegiate golf team. In order to participate in intercollegiate athletics, students must be able to meet the CCCCCAA eligibility requirements and pass an athletic medical screening. Daily practice is required. May be taken for credit 4 times. (CSU) (UC) AA GE, CSU GE

**KIN 270 C Nutrition Science and Application 3 Units
(C-ID: NUTR 110)**

Term hours: 54 lecture. In addition to the broad overview of the science of nutrition, this course provides information for those interested in sport performance and enhancement. Part of Fitness Specialist Certificate Program. (CSU) (UC) AA GE, CSU GE

KIN 283 C Women's Health 3 Units

Term Hours: 54 lecture. This course investigates a variety of topics that concern women's health. These include the effect of lifestyle on health; the role of exercise and nutrition in promoting wellness; risk factors for cardiovascular disease, chronic diseases, and cancer; social influences and work trends that affect women; abusive behaviors, sexual harassment, and substance abuse; sexual and reproductive health; and the aging process. Students analyze theoretical and practical information to make healthy lifestyle choices. (CSU) (UC) AA GE, CSU GE

**KIN 284 C Contemporary Personal Health 3 Units
(formerly PE 234 C)
(C-ID: PHS 100)**

Term hours: 54 lecture. This course focuses on the exploration of major health issues and behaviors in the various dimensions of health. Emphasis is placed on individual responsibility for personal health and the promotion of informed, positive health behaviors. Topics include nutrition, exercise, weight control, mental health, stress management, violence, substance abuse, reproductive health, disease prevention, aging, healthcare, and environmental hazards and safety. (UC/CSU, AA GE, CSU GE)

REVISED

**BUSINESS MANAGEMENT
CERTIFICATE**

Program Code: 1C21095

Primary emphasis is to provide students with the necessary skills to perform the various administrative duties of a manager. The program focuses on management, marketing, law, accounting, economics, and the global environment. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
MGT 161 C	Introduction to Business	3
CIS 111 C	Computer Information Systems	3
MGT 261 C	Small Business Management	3
MGT 266 C	Human Relations in Business	3
ACCT 101 C	Financial Accounting	5
ECON 110 C	Survey of Economics	3
	or	
ECON 105 C	Principles of Economics-Micro	(3)
	or	
ECON 105HC	Honors Principles of Economics	(3)
MGT 240 C	Legal Environment of Business	3
MGT 262 C	Principles of Management	3
MKT 222 C	Principles of Marketing	3
	Total Units	29

MATH 250BC Linear Algebra and Differential Equations **5 Units**

(C-ID: MATH 240)

Prerequisite: MATH 250AC with a minimum grade of “C” or Calculus III and Analytic Geometry with a grade of “C” or better and the assessment process.

Term hours: 90 lecture. This course is an introduction to linear algebra and ordinary differential equations. Linear algebra includes matrices, determinants, vector spaces, linear transformations, and characteristic values. Differential equations includes separable, exact, Cauchy-Euler, and nonhomogeneous equations; undetermined coefficients, variation of parameters, systems of differential equations, power series solutions, and LaPlace Transforms. Credit by Examination. (UC/CSU, AA GE, CSU GE, IGETC)

NEW

**ASSOCIATE IN SCIENCE IN
FILM, TELEVISION AND
ELECTRONIC MEDIA FOR TRANSFER
DEGREE (AS-T)** **Program Code: 1S37219**

The Associate in Science in Film, Television and Electronic Media for Transfer (AS-T in Film, Television and Electronic Media) degree provides a foundation in the field of electronic media with emphasis on content creation using video recording and editing processes. This degree program encompasses video and audio production, editing, and motion graphic courses designed to prepare students for transfer to a four-year college for study in a film and electronic media major. This curriculum is designed to provide an opportunity for the Film, Television and Electronic Media major to achieve an Associate in Science Degree in Film, Television and Electronic Media Transfer (AS-T in Film, Television and Electronic Media) which completes the first and second year requirements for transfer to a four-year public California institution. While at least a baccalaureate degree is recommended, completion of this curriculum will also demonstrate commitment to the field and provide comprehensive preparation for further academic study through upper division course work. This curriculum specifically prepares the prospective transfer student for upper division course-work in Film, Television and Electronic Media or a similar major at a California State University (CSU) campus. Students should consult a counselor, the Transfer Center, and the catalog of the transfer college or university to plan a specific program of study to meet the college or university’s requirements. Note: Courses that fulfill major requirements for an Associate Degree for Transfer at Cypress College might not be the same as those required for completing the major at all transfer institutions offering a Baccalaureate Degree. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746–66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Science for Transfer in Film, Television and Electronic Media is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students with an AS-T in Film, Television and Electronic Media may pursue careers in Film, Television, and Electronic as well as careers in a variety of live action and multimedia industries, including Internet distribution and exhibition and careers in traditional media such as motion picture and television production. To earn an AS-T in J Film, Television and Electronic Media, students must complete: (1) a minimum of 18 semester units or 27 quarter units in the major or area of emphasis as determined by the community college district, (2) earn a grade of C or better in all courses required for the major or area of emphasis, (3) the California State University General Education Breadth requirements (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern, (4) 60 semester or 90 quarter CSU-transferable units, and (5) attainment of a minimum grade point average (GPA) of 2.0.

Required Core Courses: Select 2 courses (6 units minimum) from the following list:

MM 100 C	Introduction to Electronic Media	3
MAD 111 C	Introduction to Media Writing	3
MM 105 C	Introduction to Media Aesthetics	3

List A: Select 1 audio course and 1 video course (6 units minimum) from the following list:

MUS 222 C	Audio Production for Film I	3
MAD 188 C	Beginning Single Camera Prod or	3
MAD 194 C	Beginning Motion Picture Prod	(3)

List B: Select 1 course from the following list or 3 units minimum from the courses not used above:

MAD 182 C	Cinematography	3
MAD 185 C	Documentary Digital Cinema	3

List C: Select 1 course from the following list or 3 units minimum from the courses not used above:

MAD 107 C	Motion Graphics I	3
MAD 108 C	Digital Video Production I-Win	3
MAD 109 C	Digital Video Production I-Mac	3
MAD 180 C	Video Editing-Mac	3
MAD 181 C	Video Editing-Win	3
MAD 183 C	Preproduction for TV, Video and Film	3
MAD 184 C	Digital Video Explorations	3

Total Units 18

REVISED

ANIMATION 2D COMPUTER GRAPHICS CERTIFICATE **Program Code: 1C15693**

This Animation 2D Computer Graphics Certificate provides the skills necessary for publishing animation on web sites. Students will learn to create digital drawings, paintings and illustrations for the purpose of creating two-dimensional animated cartoons and interactive games suitable for the Internet and CD-ROMs. Emphasis is placed on development of a portfolio for employment and/or advancement. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in numeric sequence:

ART 120 C	Two-Dimensional Design	3
ART 182 C	Beginning Drawing	3
MAD 102 C	Introduction to WEB Graphics-Mac or	3
MAD 200 C	Storyboarding, Comics, Pre Visual	(3)
MAD 134 C	Digital Imaging-Mac or	3
MAD 135 C	Digital Imaging-Win	(3)
MAD 164 C	Adobe Flash Designer-Mac or	3
MAD 165 C	Adobe Flash Designer-Win or	(3)
MAD 193 C	Introduction to 2D Animation	(3)

Total Units 15

REVISED

ANIMATION 3D COMPUTER GRAPHICS CERTIFICATE **Program Code: 1C15694**

The Animation 3D Computer Graphics Certificate provides the skills necessary to create three dimensional models and 3D animated short films appropriate for use in movies, television, electronic gaming, and Internet distribution. Emphasis is placed on development of a portfolio for employment and/or advancement. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in numeric sequence:

MAD 104 C	Introduction to 3D Graphics-Mac or	3
MAD 105 C	Introduction to 3D Graphics-Win or	(3)
MAD 120 C	3D Modeling-Mac or	(3)
MAD 121 C	3D Modeling-Win	(3)
MAD 150 C	Intermediate Animation-Mac or	3
MAD 151 C	Intermediate Animation-Win	(3)
MAD 156 C	Advanced Animation-Mac or	3
MAD 157 C	Advanced Animation-Win	(3)
MAD 180 C	Video Editing-Mac or	3
MAD 181 C	Video Editing-Win	(3)
MAD 200 C	Storyboarding, Comics, Pre Visual	3

Total Units 15

REVISED

COMPUTER GRAPHICS CERTIFICATE **Program Code: 1C03815**

The computer Graphics program provides the skills necessary to create raster based digital drawings, paintings and illustrations. Emphasis is placed on development of a portfolio for employment and/or advancement. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:

ART 120 C	Two-Dimensional Design	3
ART 182 C	Beginning Drawing	3
ART 194 C	Beginning Painting	3
ART 244 C	Illustration	3
MAD 100 C	Introduction to Media Arts Design-Mac or	3
MAD 101 C	Introduction to Media Arts Design-Win or	(3)
MAD 102 C	Introduction to WEB Graphics-Mac or	(3)
MAD 103 C	Introduction to WEB Graphics-Win	(3)
MAD 112 C	Electronic Illustration-Mac or	3
MAD 113 C	Electronic Illustration-Win	(3)
MAD 132 C	Electronic Paint-Mac or	3
MAD 133 C	Electronic Paint-Win	(3)
MAD 134 C	Digital Imaging-Mac or	3
MAD 135 C	Digital Imaging-Win	(3)

Electives

Select a minimum of 6 units

from the elective courses listed below

	Units
ART 185 C	Beginning Life Drawing
MAD 114 C	Electronic Illustration II-Mac
	or
MAD 115 C	Electronic Illustration II-Win
	or
MAD 116 C	Graphic Design I
	<u>(3)</u>
Total Units	30

REVISED

DIGITAL CINEMA PRODUCTION

CERTIFICATE

Program Code: 1C30289

The Digital Cinema Production certificate provides production knowledge and skills used by digital artists to perform a variety of production duties in the live-action and animation areas of motion picture and time-based media creation. This certificate is the second certificate in a sequence of skills based certificates for Digital Cinema. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence.

	Units
MAD 185 C	Documentary Digital Cinema
MAD 187 C	Motion Graphics II
MAD 188 C	Beginning Single Camera Prod
MAD 186 C	Live Event Video and Audio Production
MAD 183 C	Preproduction for TV, Video and Film
MAD 191 C	Film Noir Genre
	or
MAD 192 C	Great Directors of Cinema
	or
MAD 193 C	Introduction to 2D Animation
	<u>(3)</u>
Total Units	18

REVISED

ELECTRONIC PUBLISHING DESIGN

CERTIFICATE

Program Code: 1C07834

The Electronic Publishing Design Program provides the skills necessary to create Ad-design art and to generate digital "camera ready" page layouts. Emphasis is placed on development of a portfolio for employment and/or advancement. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:

	Units
ART 120 C	Two-Dimensional Design
ART 182 C	Beginning Drawing
MAD 116 C	Graphic Design I
MAD 117 C	Graphic Design II
MAD 100 C	Introduction to Media Arts Design-Mac
	or
MAD 101 C	Introduction to Media Arts Design-Win
	or
MAD 102 C	Introduction to WEB Graphics-Mac
	or
MAD 103 C	Introduction to WEB Graphics-Win
MAD 112 C	Electronic Illustration-Mac
	or
MAD 113 C	Electronic Illustration-Win
MAD 134 C	Digital Imaging-Mac
	or
MAD 135 C	Digital Imaging-Win
MAD 118 C	Graphic Design III
ART 244 C	Illustration

Electives

A minimum of 3 Units from the elective courses listed below

	Units
ART 130 C	Introduction to Printmaking
ART 185 C	Beginning Life Drawing
MAD 295 C	Media Arts Design Internship
	<u>3</u>
Total Units	30

REVISED
VECTOR ILLUSTRATION
CERTIFICATE

Program Code: 1C12358

The Computer Graphics program provides the skills necessary to create vector based digital drawings, paintings and illustrations. Emphasis is placed on development of a portfolio for employment and/or advancement. To earn a certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
ART 120 C	Two-Dimensional Design	3
ART 182 C	Beginning Drawing	3
ART 194 C	Beginning Painting	3
ART 244 C	Illustration	3
MAD 100 C	Introduction to Media Arts Design-Mac	3
	or	
MAD 101 C	Introduction to Media Arts Design-Win	(3)
	or	
MAD 102 C	Introduction to WEB Graphics-Mac	(3)
	or	
MAD 103 C	Introduction to WEB Graphics-Win	(3)
MAD 112 C	Electronic Illustration-Mac	3
	or	
MAD 113 C	Electronic Illustration-Win	(3)
MAD 114 C	Electronic Illustration II-Mac	3
	or	
MAD 115 C	Electronic Illustration II-Win	(3)
MAD 134 C	Digital Imaging-Mac	3
	or	
MAD 135 C	Digital Imaging-Win	(3)
Electives		
Select a minimum of 6 units from the elective courses listed below		Units
MAD 132 C	Electronic Paint-Mac	3
	or	
MAD 133 C	Electronic Paint-Win	(3)
MAD 116 C	Graphic Design I	3
ART 185 C	Beginning Life Drawing	3
	Total Units	30

MAD 198 C Horror Film Genre **3 Units**

Advisory: ENGL 060 C.

Term hours: 54 lecture. This course is an in depth exploration of the Horror Film Genre. Horror films reflect social anxieties, and impact contemporary culture. The course covers the history, technology and productions of the horror film genre along with its influence on culture and other entertainment mediums. The course investigates cinematic techniques employed to create fear in audiences and examines the business of international horror cinema. Students analyze how horror films express character, philosophy, gender, desire, sexuality, and violence in the narrative mise-en-scene. The course investigates the audience's attraction to fear, the history of horror as entertainment and its part in spawning urban myths. (CSU) (UC) **CSU GE**

MAD 201 C Typography for Media Design **3 Units**

Advisory: MAD 100 C and MAD 101 C.

Term hours: 36 lecture and 72 laboratory. This is an intermediate course on typography with emphasis on its use in graphic communication. It includes development of concept development, layout, and presentation skills. Projects include lettering design, layout, and 3D typography. Students are introduced to electronic design techniques both in 2 dimensional and 3 dimensional forms. Materials fees are for materials provided by the department. \$20 Material Fee -- Payable at Registration. (CSU) (UC)

MAD 203 C Intermediate 2D Animation **3 Units**

Prerequisite: A minimum grade of "C" in MAD 193 C.

Term hours: 36 lecture and 72 laboratory TBA. An intermediate level course to 2D animation production including classical character animation and non-traditional techniques. The class will explore traditionally drawn and emerging digital animation techniques and technology. \$20.00 Materials Fee - Payable at Registration. (CSU) (UC)

MAD 207 C Projection Mapping for Live Entertainment **3 Units**

Advisory: MAD 101 C, MAD 107 C and MAD 108 C.

Term hours: 36 lecture and 72 laboratory. This is an intermediate level course focusing on projection mapping a form of motion design using research, 2 dimensional and 3 dimensional software, lighting and color to create dramatic, stylized designs. These designs are to be projected on architectural surfaces during live action entertainment, stage production and concert venues. Primary goal is to provide a clear methodology to generate original, believable and inventive work with the use of relevant computer software. Materials fees are for materials provided by the department. \$20.00 Materials Fee -- Payable at Registration. (CSU) (UC)

REVISED
ASSOCIATE IN SCIENCE DEGREE
MERCHANDISING **Program Code: 1S07814**

This curriculum is designed to prepare students for careers in merchandising and retailing, learning the necessary techniques to display and sell merchandise, satisfy customers and enhance business profitability. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of "C"; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirement; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses are listed in suggested sequence:		Units
MGT 161 C	Introduction to Business	3
MKT 210 C	Consumer Behavior	3
MKT 103 C	Principles of Advertising	3
MKT 208 C	Principles of Selling	3
MKT 222 C	Principles of Marketing	3
MKT 105 C	Principles of Retailing	3
MGT 266 C	Human Relations in Business	3
Additional Recommended Course Work (not required)		Units
MGT 151 C	Business Mathematics	3
MGT 261 C	Small Business Management	3
MGT 265 C	Social Responsibility of Business	3
	Total Units	21

REVISED

**ASSOCIATE IN SCIENCE DEGREE
IN MORTUARY SCIENCE Program Code: 1S03791
AIMS OF PROGRAM**

The Mortuary Science Program at Cypress College has as its central aim recognition of the importance of funeral service personnel as (1) members of a human services profession, (2) members of the community in which they serve, (3) participants in the relationship between bereaved families and those engaged in the funeral service profession, (4) professionals knowledgeable of and compliant with federal, state, and local regulatory guidelines, as well as (5) professionals sensitive to the responsibility for public health, safety and welfare in caring for human remains.

PROGRAM OBJECTIVES

1. To enlarge the background and knowledge of students about the funeral service profession.
2. To educate students in every phase of funeral service, and to help them to develop proficiency and skills necessary for the profession, as defined in the Preamble at the beginning of Chapter 9 of the Manual on Accreditation.
3. To educate students concerning the responsibilities of the funeral service profession to the community at large.
4. To emphasize high standards of ethical conduct.
5. To provide a curriculum at the post secondary level of instruction.
6. To encourage student and faculty research in the field of funeral service; and
7. To qualify students for professional licensure examinations.

MINIMUM STANDARDS FOR APPLICANTS

1. Eligibility for admission to Cypress College.
2. Official High school transcript, GED test with an average score of 450 on the five-test battery, or high school proficiency examination.
3. Present evidence of good physical and mental health.
4. Completion of College Writing (ENGL 100 C) with the grade of “C” or better.
5. Completion of college Anatomy and Physiology (BIOL 210 C) or General Human Anatomy (BIOL 231 C) with a grade of “C” or better within the most recent 5 year time period prior to program application.
6. Completion of Intermediate Algebra (MATH 40 C) or higher with a grade of “C” or better.
7. A minimum GPA of 2.0 in all college courses attempted

APPLICATION PROCEDURES

1. In addition to the Cypress College application form, a separate application is required for admission into the Mortuary Science Program. Applications must be completed online. Please see the Health Science Application link on the Mortuary Science home page.
2. A total of 30 new students are selected each spring and fall semester. Applicants may exceed the available seat space.
3. Applicants must submit signature page in person or by US mail. Please bring photo ID; Official high school transcripts, GED or high School Proficiency sent directly from the institution you attended; Official college transcripts (except Cypress and Fullerton Colleges) sent directly from the institution you attended.
4. All Official transcripts are required (high school and college)

SELECTION PROCEDURES

Students will be selected using a point system based on the number of general education/graduation courses completed at the time of application and the date of completed application.

ASSOCIATE IN SCIENCE DEGREE MORTUARY SCIENCE

Program Code: 1S03791

This program is a course of study designed for students who wish to prepare for a career and employment as an embalmer/funeral director in a mortuary and to prepare the student for state licensure where statutory law requires successful completion of the Associate in Science Degree in Mortuary Science and compliance with statutory pre-mortuary science educational requirements. The Mortuary Science degree program at Cypress College is accredited by the American Board of Funeral Service Education (ABFSE), 992 Mantua Pike, Suite 108, Woodbury Heights, NJ 08097, (816) 233-3747, www.abfse.org and meets the mortuary science or funeral service educational requirements for most states. The ABFSE is an agency recognized by the U.S. Department of Education. Scholarship and general program information can be found on the ABFSE’s website. The National Board Examination is written and governed by the International Conference of Funeral Service Examining Boards, Inc. (ICFSEB), Fayetteville, AR, 73707 (888) 222-2737, www.theconferenceonline.org; Study guide and preparatory information can be found on the Conference’s website. Eligibility to write the licensure examination in some states may be contingent upon compliance with additional statutory requirements. Please consult the department for more specific information, or, for further information, contact a Health Science Counselor (714) 484-7270. To earn the Associate in Science Degree in Mortuary Science, students must complete: (1) all major course requirements with a minimum grade of “C”; (2) 25 units of General Education Graduation Requirements; (3) take the National Board Examination (students need to submit National Board Examination results to Admissions and Records for the semester the student is applying); (4) the cultural diversity and reading requirements; (5) any elective courses to complete a minimum of 60 units; and, (6) have a minimum GPA of 2.0 in all college level courses attempted and at least 50% of all major course work must be completed at Cypress College. To be eligible to write the National Board Examination, the student must be completing the Associate in Science Degree in Mortuary Science. National Board Examination (NBE) pass rates, graduation rates and employment rates for this and other ABFSE-accredited programs are available at www.abfse.org. To request a printed copy of this program’s rates, go the Mortuary Science Department Office, TE 3 Building, Room 215 or you may visit the Mortuary Science Department website to make the request. www.CypressCollege.edu/ms. Or you may email the Mortuary Science Department (mortsci@CypressCollege.edu) or call the Mortuary Science Department at (714) 484-7278.

Prerequisites		Units
ENGL 100 C	College Writing	4
BIOL 210 C	Anatomy and Physiology or	5
BIOL 231 C	General Human Anatomy	(4)
MATH 040 C	Intermediate Algebra or	4
MATH 041 C	Combined Algebra I and II	(6)
SEMESTER 1		Units
MORT 201 C	Funeral Directing	5
MORT 202 C	Funeral Service Administration I	4
MORT 203 C	Methods of Disposition	4
MORT 214 C	Funeral Service Sciences	5
Summer Session — Optional		Units
MORT 299 C	Work Experience	1–4
MORT 281 C	Funeral Service Practicum	4–12

SEMESTER 2		Units
MORT 204 C	Funeral Service Administration II	4
MORT 215 C	Embalming	5
MORT 234 C	Funeral Service Ethics and Laws I	4
MORT 248 C	Funeral Service Thanatology	6
SEMESTER 3		Units
MORT 216 C	Restorative Art	5
MORT 236 C	Funeral Service Ethics and Laws II	4
MORT 288 C	Funeral Service Capstone	4
Winter Intersession — Optional		Units
MORT 085 C	Work Experience	1–4
MORT 281 C	Funeral Service Practicum	4–12
Total Units		50

MORT 281 C Funeral Service Practicum 4 to 12 Units

Prerequisite: Completion of or concurrent enrollment in MORT 201 C.

Term hours: 18 lecture and 162–594 laboratory. This course provides practical experience in embalming, funeral directing, cemetery operations, and crematory operations in a mortuary/funeral home, cemetery or crematory environment under the supervision of a licensed funeral service practitioner. It includes active participation in planning and directing of ten or more funerals. It is to be taken only after all other MORT courses have been passed, except co-requisite(s), and is to be taken in the semester prior to graduation. (CSU)

NEW

PHIL 400 C Business Ethics 3 Units

Prerequisite: Completion of ENGL 100 C or ENGL 100HC with a grade of “C” or better.

Advisory: Completion of PHIL 160 C.

Term hours: 54 lecture. This is an upper division intensive writing course intended for students enrolled in an approved Baccalaureate Degree Pilot Program. This course is a critical and reflective exploration of ethical priorities and moral issues in the business world. It is designed to enable students to become more aware of, and skilled at, managing the many ethical dilemmas that they will face while being employed in a business organization (as well as in other types of organizations). Emphasis on issues surrounding the concepts of duty, rights, autonomy, justice, and regulation of business, as well as the potential conflict between personal moral values and business priorities, corporate social responsibility and the public good, together with extended reflections on the relationship between moral responsibility and the professions (drawing from specific fields). This course is intended strictly as a part of the Bachelor in Science degree program.

REVISED

**ASSOCIATE IN ARTS DEGREE
PHOTOGRAPHY**

Program Code: 1A03782

This program is designed to prepare students for entry into occupational photographic fields. A student may also elect to work toward a transfer into a four-year institution, in the field of Fine Arts. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of “C”; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required courses are listed in suggested sequence:		Units
PHOT 101 C	Introduction to Photography	3
PHOT 103 C	Intermediate Photography	3
PHOT 104 C	Wedding and Event Photography	3
PHOT 109 C	Portrait Photography	3
PHOT 200 C	Conceptual Photography	3
PHOT 201 C	Introduction to Professional Photo	3
PHOT 202 C	Contemporary Photography	3
PHOT 203 C	Studio Lighting Techniques	3
PHOT 204 C	History of Photography	3
PHOT 209 C	Careers in Photography	3
PHOT 215 C	Digital Photography	3
PHOT 216 C	Advanced Digital Photography	3
PHOT 219 C	Editorial Photography	3
PHOT 227 C	Retouching and Digital Workflow	3

Electives: choose one course listed below		Units
PHOT 118 C	Available Light Photography	3
PHOT 206 C	Studio Practices	3
PHOT 106 C	Advanced Wedding Photography	3
PHOT 110 C	About Faces: Portraiture	3
PHOT 230 C	Advanced Retouching and Digital Workflow	3
PHOT 277 C	Food Photography	3
Total Units		45

REVISED

**ADVERTISING AND ILLUSTRATIVE PHOTOGRAPHY
CERTIFICATE**

Program Code: 1C15692

The Advertising and Illustrative Photography Certificate is designed to prepare students for starting their own photography business or for employment within the advertising industry. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:		Units
PHOT 103 C	Intermediate Photography	3
PHOT 201 C	Introduction to Professional Photo	3
PHOT 203 C	Studio Lighting Techniques	3
PHOT 206 C	Studio Practices	3
PHOT 209 C	Careers in Photography	3
PHOT 215 C	Digital Photography	3
PHOT 277 C	Food Photography	3
Total Units		21

REVISED

**CREATIVE PHOTO ARTS
CERTIFICATE**

Program Code: 1C15691

The Creative Photo Arts Certificate is designed to prepare students for a career as an individual artist or as an employee in the visual arts. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Required courses:		Units
PHOT 200 C	Conceptual Photography	3
PHOT 202 C	Contemporary Photography	3
PHOT 118 C	Available Light Photography	3
PHOT 215 C	Digital Photography	3

Electives:		Units
Select a minimum of 3 units from the electives listed below		
PHOT 220 C	Alternative Photo Processes I	3
PHOT 204 C	History of Photography	3
Total Units		15

PHOT 109 C Portrait Photography 3 Units

Advisory: PHOT 103 C.

Term hours: 36 lecture and 54 laboratory. This course is designed to give the student a working knowledge of portrait styles and techniques. The student will practice techniques for photographing people in a studio and on location situation. The student will work with both natural and artificial lighting and learn the possibilities and limitations of both. Emphasis will be placed on lighting styles and patterns, as well as working with people in front of the camera. Students will have an opportunity to investigate and imitate the styles of well-known portrait photographers. \$20.00 Material Fee-Payable at Registration. (CSU) (UC)

PHOT 203 C Studio Lighting Techniques 3 Units

Advisory: PHOT 103 C.

Term hours: 36 lecture and 72 laboratory. This course acquaints the student with lighting and studio techniques as commonly used in professional photographic applications. The emphasis will be on light and the use of lighting equipment in a photography studio. \$20.00 Material Fee-Payable at Registration. (CSU) (UC)

PHOT 204 C History of Photography 3 Units

Advisory: PHOT 103 C.

Term hours: 36 lecture and 54 laboratory. This is a lecture/lab course on the history of photography that is designed to give students a practical knowledge of the development of the medium through a combination of lecture and hands-on technical and aesthetic experiences utilizing early photographic techniques and processes. The course will emphasize the invention and development of photography from its inception in the early 1800's through 1970. \$35 Material Fee-Payable at Registration. (CSU) (UC) CSU GE

PHOT 277 C Food Photography 3 Units

Advisory: PHOT 101, PHOT 103 C and PHOT 201 C.

Term hours: 36 lecture and 72 laboratory. This advanced course is designed to prepare students for a career in professional food photography. It focuses on building the technical and creative photographic skills necessary to successfully photograph food for advertising purposes. The course is composed of lectures, demos, lab time and outside assignments which will prepare the students for advanced application in this field of photography. \$45.00 Materials Fee - Payable at Registration. (CSU) (UC)

NEW

**RECREATION ASSISTANT
CERTIFICATE**

Program Code: 1C37194

Program Description: Primary emphasis is to prepare the student for introductory level of recreation and leisure occupational opportunities. All students must complete at least 18 units. Course work in KIN 235 C may be waived with current Red Cross cards in First Aid and CPR at the discretion of the division. To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all course work must be completed at Cypress College.

Required coursework: (15 units)		Units
REC 100 C	Foundations of Recreation and Leisure Services	3
REC 102 C	Recreation Leadership and Diverse Groups	3
REC 106 C	Outdoor Recreation and Camp Counseling	3
	or	
REC 107 C	Recreation for Special Groups	(3)
KIN 235 C	First Aid, CPR and Emergencies	3
KIN 247 C	Sports Management	3

Choose 3 units from the following list of courses:		Units
REC 101 C	Principles of Community Recreation	3
REC 103 C	Organized Fall Sports Activity-Recreation	2
REC 104 C	Organized Spring Sports Activity-Recreation	2
KIN 137 C	Mountaineering and Rock Climbing	1
KIN 284 C	Contemporary Personal Health	3
Total Units		18

REC 102 C Recreation Leadership and Diverse Groups 3 Units

Term hours: 54 lecture. This course covers the application and development of leadership skills in the recreation setting. Emphasis on applicable leadership techniques including working with groups consisting of representatives from diverse populations such as those with disabilities or special needs, cultural and social differences, and diversity of all ages. This course is part of Recreation Assistant Certification. (UC/CSU) CUL DIV

REC 103 C Organized Fall Sports Activity-Recreation 2 Units

Term hours: 18 lecture and 54 laboratory. This course is a survey of basic terminology and skills of fall sports. The basic techniques of teaching, organizing, and promoting interest in individual and team fall sports are included. Students will be involved in organizing and promoting the college intramural sports program. (CSU)

REC 104 C Organized Spring Sports Activity-Recreation 2 Units

Term hours: 18 lecture and 54 laboratory. This course is a survey of basic terminology and skills of spring sports. The basic techniques of teaching, organizing, and promoting interest in individual and team spring sports are included. Students will be involved in organizing and promoting the college intramural sports program. (CSU)

REC 107 C Recreation for Special Groups 3 Units

Term hours: 54 lecture. This class is an introduction to the relationship of recreation and special groups (i.e. adolescent, older adults, individuals with intellectual and physical disabilities). The course will emphasize social development and how to integrate special groups into recreation programs with adoption of all forms of recreation. (CSU)

NEW
ASSOCIATE IN ARTS IN SPANISH FOR TRANSFER Program Code: 1A37312

This curriculum is designed to provide an opportunity for the Spanish major to achieve an Associate in Arts Degree in Spanish for Transfer (AA-T in Spanish) which completes the first and second year requirements for transfer to a four-year public California institution. While at least a baccalaureate degree is recommended preparation for those considering professional careers, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for further academic study through upper-division course work. This curriculum specifically prepares the prospective transfer student for upper division coursework in Spanish or a similar major at a California State University (CSU) campus. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746–66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The AA-T is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is designated “high-unit” major). Students should meet with a counselor regularly to discuss the best option for them. This AA-T in Spanish is designed to provide the student with a fundamental understanding and acquisition of knowledge in the Spanish discipline. The AA-T in Spanish includes (1) the development of reading skills in order to comprehend and interpret social, cultural, and literary authentic texts; (2) the development of speaking skills in order to discuss social, cultural, and literary topics; and (3) the development of writing skills in order to write analytically on professional, academic, and societal issues. The curriculum includes courses in first and second year Spanish, Chicano Studies, and Latin American History. Given the ever-increasing Latino population in California and nation-wide, fluency in Spanish has value in a number of fields, such as customer service, marketing, and public relations. Those who pursue degrees in Spanish can pursue K–12 and college level teaching as career. To earn an AA-T in Spanish students must complete: (1) A minimum of 20–23 semester units or 30–34.5 quarter units in the Spanish major with a minimum grade of “C”; (2) California State University General Education Breadth requirements (CSU GE Breadth) or the Intersegmental/General Education Transfer Curriculum (CSU IGETC); (3) Completion of 60 semester or 90 quarter units of CSU transferable coursework; and (4) have an overall GPA of 2.0

Required Core Courses:

Non-Native Speakers Core (18 units):		Units
SPAN 101 C	Elementary Spanish I	5
SPAN 102 C	Elementary Spanish II	5
SPAN 203 C	Intermediate Spanish III	4
SPAN 204 C	Intermediate Spanish IV	4

Native Speakers Core (10 units, plus 2 courses from substitution course list or List A below for a minimum of 16 core units):

		Units
SPAN 201 C	Spanish for Spanish Speakers I	5
SPAN 202 C	Spanish for Spanish Speakers II	5

Note: If the Spanish faculty assess a student as placing out of a Core Course, a substitute course from the CSU Transferable list below, or List A, can be used to meet the core minimum unit requirement.

Substitution Courses:		Units
ANTH 102 C	Cultural Anthropology	3
	or	
ANTH 102HC	Honors Cultural Anthropology	(3)
ANTH 105 C	Introduction to Linguistic Anthropology	3
COMM 120 C	Intercultural Communication	3
ETHS 101 C	American Ethnic Studies	3
	or	
ETHS 101HC	Honors American Ethnic Studies	(3)
ETHS 150 C	Introduction to Chicana-o Studies	3
ETHS 151 C	Chicana-o History I	3
	or	
ETHS 152 C	Chicana-o History II	(3)
GEOG 160 C	Cultural Geography	3
HIST 143 C	History of Latin America II	3
HIST 163 C	History of Mexico	3
SOC 101 C	Introduction to Sociology	3
	or	
SOC 101HC	Honors Introduction to Sociology	(3)
SOC 225 C	Sociology of Women	3

List A: Required for Native and Non-Native speakers.

Select a minimum of one course (4-5 units) from the following:		Units
CHIN 101 C	Elementary Chinese-Mandarin I	5
CHIN 102 C	Elementary Chinese-Mandarin II	5
FREN 101 C	Elementary French I	5
FREN 102 C	Elementary French II	5
FREN 203 C	Intermediate French III	4
FREN 204 C	Intermediate French IV	4
JAPN 101 C	Elementary Japanese I	5
JAPN 102 C	Elementary Japanese II	5
JAPN 203 C	Intermediate Japanese III	4
JAPN 204 C	Intermediate Japanese IV	4
PORT 101 C	Elementary Portuguese I	5
PORT 102 C	Elementary Portuguese II	5

Total Units **20–23**

REVISED

ASSOCIATE IN ARTS IN THEATER ARTS FOR TRANSFER DEGREE (AA-T)

Program Code: 1A32187

This curriculum is designed to provide an opportunity for the Theater major to achieve an Associate in Arts in Theater for Transfer (AA-T in Theater) which completes the first and second year requirements for transfer to a four-year public California institution. While at least a baccalaureate degree is recommended preparation for those considering professional careers, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for further academic study through upper-division course work. The study of theater combines a critical study of theater with experiential practice in one or more of its component parts. Students explore the various areas of theater to build a foundation for future creative work. This curriculum specifically prepares the prospective transfer student for upper division coursework in Theater or a similar major at a California State University (CSU) campus. Students should consult a counselor, the Transfer Center and the catalog of the transfer college or university to plan a specific program of study to meet the college or university's requirements. Note: Courses that fulfill major requirements for an Associate Degree for Transfer at Cypress College might not be the same as those required for completing the major at all transfer institutions offering a Baccalaureate Degree. The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746–66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The AA-T is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T) are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. The completion of this curriculum will demonstrate commitment to the Theater field and provide comprehensive preparation for upper-division work. To earn an AA-T in Theater students must complete the following requirements: (1) a minimum of 18 semester units or 27 quarter units in the Theater major with a minimum grade of “C”; (2) California State University General Education Breadth requirements (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (CSU IGETC); (3) completion of 60 semester or 90 quarter units of CSU transferable coursework; and (4) have an overall GPA of 2.0.

Required Core: Select 3 courses from the following (9 units):		Units
THEA 100 C	Introduction to the Theater	3
	or	
THEA 102 C	World Theater History I	(3)
THEA 120 C	Acting I	3
THEA 132 C	Musical Theater Performance I	3
	or	
THEA 133 C	Rehearsal Performance I	(3)

List A: Select 3 courses from the following (9 units). Please note if a student does not take THEA 132 C or THEA 133 C for the required core, one of these courses may be completed for these required 9 units, or a minimum of two Stage Crew courses may be completed for a total of 3 units only. (EX: 1 course taken at 1 unit and the second course taken at 2 units.)

	Units
THEA 101 C	Play Analysis 3
THEA 124 C	Acting II 3
THEA 140 C	Introduction to Theater Design 3
THEA 143 C	Stagecraft 3
THEA 144 C	Lighting Design Fundamentals 3
THEA 145 C	Fundamentals of Costume Design 3
THEA 147 C	Stage Makeup 3
THEA 132 C	Musical Theater Performance I 2–3
	or
THEA 149 C	Stage Crew I- Running (1–2)
	or
THEA 133 C	Rehearsal Performance I (2–3)
	or
THEA 150 C	Stage Crew II-Production Preparation (1–2)
	or
THEA 151 C	Stage Crew III- Costume-Makeup (1–2)
	or
THEA 152 C	Stage Crew IV- House-Box Office (1–2)
	Total Units 18

NEW

ASSOCIATE IN SCIENCE DEGREE THEATER ARTS PRODUCTION

Program Code: 1S37193

This program is designed to prepare the student with a fundamental understanding and acquisition of knowledge in the theater arts discipline with an emphasis on production through set design, construction and costuming with attention to stagecraft, function, and esthetics. To earn an Associate Degree students must complete: (1) all major course requirements with a minimum grade of “C”; (2) 25 units of General Education Graduation Requirements; (3) cultural diversity and reading requirements; (4) any elective courses to complete a minimum of 60 units; and, (5) have a minimum GPA of 2.0. At least 50% of all major course work must be completed at Cypress College. Courses that fulfill major requirements for an Associate Degree at Cypress College might not be the same as those required for completing the major at a transfer institution offering a Baccalaureate Degree. For information on specific university requirements, please consult with your counselor, or visit the Transfer Center.

Required nine (9) units from the following Theater courses.		Units
THEA 100 C	Introduction to the Theater	3
THEA 101 C	Play Analysis 3	
	or	
THEA 102 C	World Theater History I (3)	
	or	
THEA 107 C	Diversity in American Theater (3)	
	or	
THEA 107HC	Honors Diversity in American Theater (3)	
THEA 120 C	Acting I 3	

Select 8–9 units from the following design classes according to emphasis:

	Units
THEA 140 C Introduction to Theater Design	3
THEA 143 C Stagecraft	3
THEA 142 C Theater Sound and Recording or	2
THEA 144 C Lighting Design Fundamentals or	(3)
THEA 145 C Fundamentals of Costume Design or	(3)
THEA 146 C Scene Painting or	(3)
THEA 147 C Stage Makeup	(3)

Select three (3) units from the following production classes according to emphasis:

	Units
THEA 149 C Stage Crew I- Running	1–2
THEA 150 C Stage Crew II-Production Preparation	1–2
THEA 151 C Stage Crew III- Costume-Makeup or	1–2
THEA 152 C Stage Crew IV- House-Box Office	(1–2)

Select 2–3 units from the following theater classes according to emphasis.

Recommended for all theater students:		Units
THEA 102 C World Theater History I		3
THEA 107 C Diversity in American Theater		3
THEA 107HC Honors Diversity in American Theater		3
THEA 108 C Stage and Screenwriting		3
Recommended for production and design:		Units
THEA 130 C Acting Workshop		2–3
THEA 132 C Musical Theater Performance I		2–3
THEA 133 C Rehearsal Performance I		2–3
THEA 151 C Stage Crew III- Costume-Makeup		1–2
THEA 152 C Stage Crew IV- House-Box Office		1–2
THEA 225 C Directing for the Theater		3
THEA 235 C Experimental Theater		2
THEA 247 C Prosthetic Makeup		3
Total Units		22–24