Welcome to Cypress College!

It is my pleasure to welcome you to Cypress College. Here you will find a uniquely beautiful campus and the opportunity for a rewarding collegiate experience that promotes student success.

This catalog contains extensive information on our courses and wide range of educational programs to help you become well-prepared and strategically positioned to compete for careers in your chosen profession. Whether your goals include achieving an Associate of Arts or Associate of Science degree, transfer to a four-year institution, or to obtain an occupational certificate, there are hundreds of academic and vocational opportunities to help you meet your goals and enrich your life.

We also offer a broad range of student support services, such as counseling, tutoring, financial aid, health services, and study skill classes to name a few. You are encouraged to participate in special-interest clubs, athletics, fine arts productions, and student government activities, all of which provide excellent opportunities for additional learning experiences.

After reading this catalog if you have questions or need additional information you are encouraged to connect with our dedicated faculty and staff who are here to help you. With their help, your initiative, and the information in this catalog, you have tools to open doors toward upward mobility and success in your chosen vocation.

I look forward to seeing you on campus and wish you success in realizing your educational goals.

Michael J. Kasler, Ed.D.
President

North Orange County Community College District
1830 W. Romneya
Anaheim, CA 92801 (714) 808-4500

Cypress College is a member of the North Orange County Community College District (NOCCCD). The District also includes Fullerton College, the oldest California community college in continuous operation, and three Continuing Education Centers located in Anaheim, Cypress, and Fullerton.

The North Orange County Community College District came into existence on July 1, 1965, with Fullerton College already in operation and plans for a college in the western part of the district. Cypress College opened on September 12, 1966, just 74 days after the land was acquired.

Encompassing approximately 155 square miles, the North Orange County Community College District has a population of about one million. In general, the district includes the following communities: Anaheim, Brea, Buena Park, Cypress, Fullerton, La Habra, La Palma, Los Alamitos, Placentia, Rossmoor, and Yorba Linda. Portions of the following communities are included: Garden Grove, La Habra Heights, La Mirada, Orange, Seal Beach, Stanton, Whittier, and unincorporated territory in both Los Angeles and Orange counties. It serves, in its credit and non-credit programs, about 70,000 students each semester.

The North Orange County Community College District is part of the California Community College system, one of three segments of public postsecondary education in the state. A seven-member Board of Trustees, elected by the citizens of the district, governs all programs and activities of the NOCCCD.

Board of Trustees

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*Academic Calendar 2010-2011*

2010 Fall Semester - August 16 - December 16, 2010

- August 16 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . First Day of Instruction
- November 12 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Legal Holiday - Labor Day
- November 25, 26, 27, 28 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Legal Holiday - Thanksgiving Recess
- December 8 - 16 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Final Examinations
- December 16 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . End of Fall Semester

2010 Spring Semester - January 19 - May 27, 2011

- January 3, 2011 - January 18, 2011 (tentative) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Winter Intersession
- January 19 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . First Day of Instruction
- April 18 – April 22 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Spring Recess (No classes Saturday 23rd or Sunday 24th)
- May 19 - 27 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Final Examinations
- May 27 (tentative) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Commencement
- May 27 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . End of Spring Semester

2010 Summer Session - to be announced

*Dates and deadlines are subject to change.*

Cypress College has made every reasonable effort to determine that everything stated in this Catalog is accurate. This publication is prepared in advance of the time period it covers; therefore, changes in courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of Cypress College.
Cypress College

VISION STATEMENT
A premier learning community recognized for supporting student success and enriching society.

MISSION STATEMENT
Cypress College enriches students’ lives by providing high-quality education for transfer to four-year institutions, associate degrees, career technical education, and certificate coursework, as well as basic skills and opportunities for lifelong learning. The college is committed to promoting student learning and success, embracing diversity, and contributing to both the economic and social development of the surrounding community.

EXCELLENCE IN EDUCATION
Cypress College emphasizes education for the individual student. Excellence of instruction and individualized learning laboratories enhance the possibility for students to achieve their highest potential. In addition, a staff of tutors and full-time counselors provides instructional support and extensive guidance information to aid students in their choice of programs and classes. For the student who plans to complete a Baccalaureate degree, the college provides a smooth transition from high school to colleges and universities.

Numerous occupational programs are available for the student who desires preparation for immediate employment. Each occupational program is planned with the aid of a local advisory committee to insure relevance to changing career opportunities in each area of employment.

The College is composed of twelve major instructional buildings located on a 110-acre site. The campus buildings contain conventional classrooms as well as laboratory facilities for science, art, computer technology, photography, automotive services, dental clinic, mortuary science, physical education and other specialized programs. The colleges’ Educational Services provide opportunities for students with disabilities to be fully integrated into various college programs.

In addition to these instructional facilities, the campus is provided support services by a bookstore, and food service centers. There are nine parking lots with an aggregate of 4,000 parking spaces designed to service students and staff, with an appropriate number of spaces reserved for the disabled.

Cypress College serves the educational needs of its entire community by providing a variety of occupational programs, transfer programs, and special interest classes. The College offers something for everyone, regardless of the student’s individual background or educational goals. Since opening in 1966, Cypress’ population has grown from an original enrollment of 1,200 to a student population of almost 15,000.

CORE VALUES
Cypress College is committed to:

Excellence — quality and high standards in instruction and student services, supported by professional growth for faculty and staff

Integrity — an ethical standard that emphasizes honesty, fairness, accountability, and trust

Collegiality — an environment that emphasizes teamwork, collaboration, communication, courtesy and respect both on campus and with the surrounding community

Inclusiveness — a community that embraces diverse individuals; provides an accessible, supportive climate; and encourages a variety of perspectives and opinions

STRATEGIC PLAN DIRECTIONS
Cypress College staff and students recognize the importance and interdependence of diversity, innovation, technology, and staff development. These threads are reflected in all of the following:

Direction 1 — Instruction
Designing, enhancing, and delivering comprehensive and accessible instruction to promote academic excellence and student learning.

Direction 2 — Student and Academic Support Services
Developing and providing comprehensive student and academic support services to foster a positive and effective learning environment.

Direction 3 — Campus Support and Infrastructure
Ensuring that campus support services and resources are provided in an effective and efficient manner.

Direction 4 — Climate, Involvement, and Communication
Promoting a campus climate that embraces diversity and supports excellence, integrity, collegiality, and inclusiveness, by supporting communication and involvement throughout the college.

Direction 5 — Collaborative Relations and Marketing
Improving marketing efforts and establishing and strengthening collaborative relationships with other educational institutions and with the communities we serve.

INSTITUTIONAL LEARNING OUTCOMES (ILOs)
Students leaving Cypress College with a vocational certificate and/or an Associate Degree in Liberal Arts, Occupational Studies, or General Studies, or students transferring with general education certification will demonstrate common learning outcomes. Institutional Learning Outcomes (ILOs) refer to the scope of requirements either for a vocational certificate or for any AA/AS degree or general education certification rather than individual courses or programs.
A distinction between ILOs and student learning outcomes (SLOs) is important. The college will assess service to students who complete an overall college degree or certificate by examining general student achievement through ILOs. The college will also assess service to students in specific courses by examining general student achievement in course-level SLOs.

A student who receives a certificate from Cypress College...
- Will have acquired a specified set of skills required for particular employment opportunities
- Will have achieved the necessary competencies to enter a particular employment field
- Will be aware of additional educational and career opportunities within that field

A student who graduates from Cypress College with an AA or AS degree in any field or transfers with a general education certification...
- Will possess a breadth of knowledge and experiences from the areas of the humanities and arts; the natural sciences and mathematics; the social sciences; and physical education
- Will possess skills for life-long learning in oral and written communication; human adaptability and health; critical thinking, including deductive/inductive reasoning, problem-solving, and quantitative/qualitative reasoning; and information competency
- Will possess an understanding of civic society and culture in the areas of citizen rights and responsibilities; the role of diversity in modern society; and the nature of ethical decision-making

STUDENT LEARNING OUTCOMES (SLOs) & PROGRAM LEARNING OUTCOMES (PLOs)
Student learning outcomes or SLOs and Program Learning Outcomes or PLOs are statements that specify what students will know, be able to do or be able to demonstrate when they have completed a course or program of study. Outcomes are usually expressed as knowledge, skills, attitudes or values. Developing SLOs for courses and PLOs for programs is one of the requirements of accreditation. The SLO dialogue began in 2002, the Institutional Learning Outcomes were approved in 2004, and the development of course SLOs started in 2005. As of Spring 2010, nearly 80% of the courses had developed SLOs. The course SLOs, where available, can be found in the syllabus for each respective course. The Program Learning Outcomes (PLO), where available, appear in this college catalog. All courses and programs will have SLOs and PLOs developed by 2012. Cypress College is committed to developing SLOs and PLOs and integrating them in the assessment and program review processes.

Admissions
Admission to Cypress College is governed by the laws of the State of California and such supplementary regulations as have been prescribed by the Board of Trustees.

The following people are eligible to enroll in Cypress College:
- Any high school graduate OR
- Any person possessing a G.E.D. certificate OR
- Any person possessing a California High School Proficiency Certificate OR
- Any person 18 years of age or older who may benefit from instruction OR
- Any K-12 student who qualifies for the Special Admit Program. (Refer to the Special Admit section of this Catalog)

NEW AND RETURNING (FORMER) STUDENTS
WHO must apply?
Everyone who did not complete the enrollment process or attend Cypress or Fullerton College for the previous semester or session.

HOW to apply?
Applications are submitted by accessing the college website, www.CypressCollege.edu, and electronically applying using the online system CCCApply.

WHEN to apply?
Applications are accepted for the Summer and Fall semesters beginning March 1. Applications for Winter Intersession and the Spring semester are accepted beginning October 1.

AFTER you apply...
Assessment may be required for new students who plan to enroll in English and/or mathematics courses or those English and mathematics courses that have prerequisites. If you have taken prior college work at another institution it is recommended that you submit an official transcript to the Admissions and Records Office. Obtain a Class Schedule and review the information regarding registration, available class offerings and other requirements of the College.

RESIDENCY DETERMINATION FOR TUITION PURPOSES
This statement is a general summary of the principal rules on residency and their exceptions. It should not be construed as the actual expression of the laws used by admissions officers for residency determination. Reference should be made to Chapter 1 (commencing with Section 68000) of Division 5 of the California Education Code, and Regulations of the Board of Governors of the California Community Colleges in Chapter 5 (commencing with Section 54000) of Division 6 of Title 5 of the California Code of Regulations.

The Admissions and Record Office determines the resident status of all new and returning students. Responses to the Application for Admission, and, if necessary, other evidence furnished by the student, are used in making this determination.

Resident - Any student who has had legal residence in California for one year or more immediately preceding the residence determination date and who provides evidence of the intent to make California his/her home for other than a temporary purpose shall be classified as a resident.
Non-resident - Any student who has not had legal residence in California for one year or more immediately preceding the residence determination date, or who has had legal residence in California for one year or more immediately preceding the residence determination date but cannot provide adequate evidence to establish the intent to make California his/her home for other than a temporary purpose shall be classified as a non-resident.

Residence Determination Date - The residence determination date is the day immediately preceding the first day of instruction of the Fall, Spring or Summer term as set by the Board of Trustees during which the student proposes to attend Cypress College.

Each person enrolled in or applying for admission to a California Community College is, for purposes of admission and/or tuition, classified as a “resident” or a “non-resident.” Students classified as residents will not pay non-resident tuition. Students classified as non-residents will be required to pay tuition in an amount set by the Board of the Trustees.

Generally, residency requires actual physical presence in California, coupled with an intent to become a resident. One’s state of mind is subjective; hence, it is necessary to look at objective indications of the student’s intent. Some examples of evidence that aid the college admissions officer in identifying that intent, but that are not individually decisive, are a California driver’s license, a receipt for registration to vote in California, a current lease, rental agreement or rent receipt showing the student’s name and address and place of residence in California, a library card, a state or federal income tax information document showing a California address, local documentation of property ownership in California or statements from an active bank account in California. A combination of two or more such documents dated on or before the residency determination date is usually sufficient to indicate the student’s intent. Demonstration of the necessary intent, coupled with documentation of factual presence in California for one year, will satisfy the residency requirements, and the student may be classified as a resident student.

Unmarried minors (those under 18 years of age) whose parents or guardians are living are by law incapable of establishing their own residence. An admissions officer will use the following guidelines for the determination of a minor applicant’s residence:

If both the minor's parents are living, the residence of the minor will be the residence of the parent with whom the minor is living or with whom the minor was last living. In cases where one parent is deceased, the minor’s residence will be that of the living parent. In cases of adoption or guardianship where neither natural parent is living, the residence of the adopting parent or the guardian is the residence of the minor.

A minor whose parents are not living and who does not have a legal guardian may establish an independent residence. A student who is a minor and has a parent living may not, by independent action, establish residence nor will the appointment of a guardian or the relinquishment of the parent's right of control give that minor the ability to establish an independent residence.

**Exceptions**

A student who would otherwise be classified as a non-resident, but fits within one of the following exceptions, may be granted classification as a resident until the student can be classified as a resident under the regular procedure.

The exceptions are:
- Minors who remain in California after their parents, who had previously resided within California, have moved from the state within one year prior to the residence determination date, and who continue full-time attendance at a tax-supported college in California, will retain resident classification until they reach 18 years of age and have resided in the state the minimum time necessary to become residents.
- A student who is a minor and who has been self-supporting and present in California proves that he or she with the intent to become a resident for one year preceding the residence determination date, will be granted residence classification until he or she has resided in the state the minimum time necessary to become a resident.
- A student who has not been an adult for more than one year prior to the residence determination date may add the California residency derived from his or her parents, if any, to his or her own adult California residence to obtain the one-year requirement.
- A child or a spouse of a member of the armed forces stationed in California may be granted resident classification. A student who is a member of the armed forces not assigned to California for purposes of education will be entitled to resident classification until the one year necessary to establish residency has been spent in California.
- Adult aliens who are lawfully admitted for permanent residence and are residents of California for one year after being granted permanent residency will be given resident classification. Minor aliens may use their parent’s one-year presence to satisfy their own one year requirement.
- A student holding a valid credential authorizing service in a public school and employed in a certificated position by a community college district will be given resident classification.
- A student who is an apprentice within the meaning of Section 3077 of the Labor Code is entitled to resident classification.

**Assembly Bill AB 540**

This act allows all persons, including undocumented immigrant students who meet the requirements set forth in section 68130.5 of the Education Code, to be exempt from nonresident tuition in California’s colleges and universities. The requirements are:
- High school attendance in California for three or more years.
- Graduation from a California high school or attainment of the equivalent thereof (i.e., GED or Certificate of High School Proficiency) prior to the start of the term.
- Registration as an entering student at, or current enrollment at, an accredited institution of higher education in California not earlier than the fall semester or quarter of the 2001-02 academic year.
- In the case of a person without lawful immigration status, the filing of an affidavit with the college stating that the student has filed an application to legalize his or her immigration status, or will file an application as soon as he or she is eligible to do so.
All students seeking this exemption must file an affidavit and high school transcripts with the college. The affidavit is included in the California Nonresident Tuition Exemption form, which is available in the Admissions and Records Office. Students living outside the state and enrolled via distance education are not eligible for the AB 540 exemption. (California Code of Regulations, Title 5, Section 55200)

OPEN ENROLLMENT POLICY
It is the policy of the District that, unless specifically exempted by statute, every course, course section or class, the average daily attendance of which is to be reported for State aid, wherever offered and conducted throughout the District, shall be fully open to enrollment and participation by any person who is eligible for admission to the college(s) and who meets such prerequisites as may be established pursuant to Chapter II, Division 2, Part IV, Title 5 of the California Administrative Code, commencing with Section 51900.

Registration Procedures
Registration is the process of becoming officially enrolled in college. At Cypress College, registration consists of the following steps:

1. **Filing an application** - File a completed application for the Admissions and Records Office by accessing the college website and applying on CCCApply. Registration appointments are distributed on a first-come, first-serve basis according to when an application is submitted. All new and returning students must file an online Application for Admission before they may register for classes.

2. **Assessment** - Bring Basic Skills placement results from other colleges or take the placement test listed in the Class Schedule.

3. **Attending Counseling/Orientation** - Attend the group counseling/orientation session for which an appointment is given after assessment. At this session students will receive help in preparing a class program for the semester and prerequisite approval.

4. **Registration** - A Registration Email which indicates the earliest date and time a student may register is sent to new, returning and continuing students before registration begins. This email will be the only mode of correspondence received regarding the registration appointment.

Class Registration
Registration starts several weeks prior to the beginning of a semester. Attempting to add classes after a semester begins can be difficult due to limited class availability. Students are encouraged to register early for a better opportunity in obtaining desired classes; however, enrollment is not guaranteed into any class.

Registration is not complete until all fees – including enrollment, material, lab, health, and when appropriate, non resident tuition fees, have been paid.

Deadlines are necessary in order to comply with state attendance laws and must be followed by all faculty and students. Failure to comply with these deadlines may mean that the student will not be registered and will not be allowed to attend or receive credit for the class.

It is a student’s responsibility to meet class prerequisites, corequisites and advisories as listed in the Catalog and the Class Schedule. Prerequisite/corequisite completion will be checked at the first class meeting.

Refer to the Class Schedule for more specific information regarding registration and its required procedures.

Continuing Students
Continuing Students are those students who were registered in a class at Cypress or Fullerton College the previous semester long enough to receive a grade (A, B, C, D, F, I, IP, CR, NC, P, NP or W) on their permanent record. Continuing Students are given priority registration based on the number of units completed at Cypress and Fullerton Colleges.

New Students
New Students are those who have never attended Cypress or Fullerton College. Registration priority is given in the order the online Applications for Admission is submitted.

Returning Students
Returning Students are those students who previously attended Cypress or Fullerton College but did not register for a class during the previous semester. Registration priority is given in the order the Applications for Admission are received.

Registration for all students is completed through WebStar. Specific registration information is available in the Class Schedule.

Fees
ASSOCIATED STUDENTS BENEFITS PROGRAM
– More than just a sticker, an opportunity! –
The Cypress College A.S., in addition to acting as a voice for the student body, has put forth an exciting and valuable benefits program. For a modest fee of $7.00 per semester, a sticker may be bought that entitles the holder to privileges and services both on campus and throughout the community. Beneficiaries enjoy discounts at local food and retail businesses as well as exclusive access to the Student Activities computer lab and game center. Additionally, portions of the proceeds obtained from the purchase of these stickers are used to enrich the college’s academic, athletic and artistic community by helping to fund extracurricular programs and events. The sticker may be purchased on-line via WebStar during registration or at the Admissions and Records office throughout the semester. For further information on the Associated Benefits Sticker, visit the Student Activities Center, or call (714) 484-7198.
CAMPUS ID CARD
— Enrich your college experience! —
The Campus I.D. card is an invaluable tool which not only identifies Cypress College students, but also grants them access to a wide array of services and programs. A smart addition to any wallet, the card is required at the library, bookstore and gym as well as the various computer/learning labs located throughout the college. In addition, a student may be required to present their I.D. when using support services such as Financial Aid, Admissions and Records, Bursars, the Transfer Center. The card may be purchased on-line via WebStar during registration or at the Admissions and Records office throughout the semester. Please note: the $2.50 fee must be paid every semester. This fee supplies a validation sticker and entitles the student to a new I.D. card. If the student wishes to keep their current card, the new sticker can simply be placed over the old. For further information on the Campus I.D. Card, visit the Student Activities Center, or call (714) 484-7198.

ENROLLMENT FEES
All students, residents and non-residents must pay the enrollment fee of $26.00 per unit ($13.00 per ½ unit). The enrollment fee may vary should the state legislature take action to change it.

HEALTH FEE
Pursuant to health code and district policy, Cypress College has a mandatory health fee. The health fee is $16.00 per semester ($13.00 for the Summer Intersession) for each student regardless of the number of units taken.

Any student who depends exclusively on prayer for healing in accordance with the teachings of a bona-fide religious sect, denomination or organization, provided that the student presents documentary evidence of an affiliation of such bona-fide religious sect, denomination or organization, shall be exempt from paying such a fee. Additionally, students attending Cypress College exclusively under an approved apprenticeship training program are exempt from paying the health fee. The health fee will be refunded to any student who withdraws from all courses prior to the 10% date of the length of the course. All Special Admit students are required to pay the health fee each term they attend.

NON-RESIDENT TUITION
Non-residents of the state of California are charged tuition at $203 per unit (includes $20.00 per unit capital outlay fee as provided in Education Code Section 76141.) Non-resident tuition is in addition to the enrollment fee paid by all students. If you believe you should be reclassified as a resident student, it is your responsibility to request reclassification at the Admissions and Records Office prior to registering.

PARKING
Students who choose to use the campus parking lots are required to pay a parking fee, the amount of which is determined each year on the basis of parking needs. The parking permit authorizes students to use any of the six parking lots open to student parking and designated student parking on Circle Drive, designated student parking at Fullerton College as well as designated student parking at our Anaheim Campus. The parking hanger does not guarantee a parking space, but will permit parking in designated spaces at both colleges. Revenue from parking fees is used exclusively to offset costs of campus parking.

REFUNDS
Enrollment fees, non-resident tuition fees, health fees and material fees are fully refundable if withdrawal from classes is processed on, or before the end of the second week of classes. (See current semester schedule for exact dates). Refunds must be requested during the semester of attendance. After the second week, there will be no refunds for withdrawal. The same fees for Short Term classes are refundable if the student withdraws from class by the 10% date of the length of the course.

REFUND PROCESSING FEE
A refund processing fee of $10.00 per semester will be deducted from the enrollment fee refunds. The fee will be waived for students who are administratively dropped from class(es) due to cancellation of class(es), student disqualification or course repetition.

SERVICE CHARGE
There is a $25.00 service charge on all checks returned by your bank, and your enrollment at the College, as well as your credit, may be affected.

Cypress College participates in the COTOP program (Chancellor’s Office Tax Offset Program) and will be charging the administrative fee if your account is sent to COTOP for collection. To avoid these additional charges, please pay all debts owed to the college in a timely manner. This includes registration fees, checks returned by your bank, and any other fees due on your student account.

STUDENT REPRESENTATION FEE
All students are urged to pay this $1.00 fee. This fee will be used so that students may represent students’ views and positions at city, county, and district governments as well as state legislative offices and other governmental agencies.

TRANSCRIPT FEES
The first two copies of the student transcript are free and a $3.00 fee per transcript is levied thereafter. (NOTE: The $3.00 fee is subject to change at any time.)

VERIFICATION OF ENROLLMENT/STUDENT STATUS
Beginning Fall 2006, Cypress College authorized the National Student Clearinghouse (NSC) to provide degree and enrollment verifications on behalf of the College. NSC provides free, self-service enrollment certificates to students and adheres to the privacy mandates of FERPA (Family Education Rights and Privacy Act). To conveniently serve the student population, NSC is available 24 hours a day, 7 days a week.

Students can request NSC enrollment verification certificates ten business days after the beginning of a term. Log onto CypressCollege.edu and sign into myGateway. Click on Student Records and select Cypress College Enrollment Verification via National Student Clearing House. Enter the information requested.
Cypress College 2010-2011

Academic Policies

ACADEMIC FREEDOM
(This represents Board Policy AP4030, adopted 2/12/08)

The Association of American Colleges and the American Association of University Professors have long recognized that membership in the academic profession carries with it special responsibilities. The protections provided under this section are correlative with certain duties. Academic freedom must be balanced with the obligation of the District to protect the right of students to learn in an environment characterized by civility, open inquiry, and rigorous attention to the search for the truth, free of unlawful discrimination.

It is recognized that an essential function of education is a probing of opinions and an exploration of ideas that may cause some students discomfort. The District affirms the use of a variety of teaching methodologies to fulfill its obligation to raise difficult and meaningful questions in the educational development of students in curricular and co-curricular settings. Faculty members are entitled to freely discuss issues germane to their subject matter as measured by professional standards set by the community of scholars. This freedom involves the right to introduce controversial topics, as long as the manner of presentation involves objective reasoning and rational discussion.

There shall be no curtailment of faculty presentation of factual or theoretical material relating to all points of view.

Faculty are citizens, members of a learned profession, and officers of an educational institution. When they speak or write as citizens, they should be free from institutional censorship or discipline. However, when doing so, they should apply the best standards of their professions and make every effort to indicate they are not speaking for the institution.

The District will consult with discipline faculty chosen by the Academic/Faculty Senate with respect to contemporary practices and professional standards for course content and delivery when evaluating issues of academic freedom.

ACADEMIC HONESTY

Students are expected to abide by ethical standards in preparing and presenting material which demonstrates their level of knowledge and which is used to determine grades. Such standards are founded on basic concepts of integrity and honesty. These include, but are not limited to the following areas:

1) Students shall not plagiarize, which is defined as stealing or passing off as one's own ideas or words of another and as using a creative production without crediting the source. The following cases are examples of what constitutes plagiarism:

- paraphrasing published material without acknowledging the source.
- making significant use of an idea or a particular arrangement of ideas, e.g., outlines.
- writing a paper after consulting with persons who provide suitable ideas and incorporating these ideas into the paper without acknowledging the debt.
- submitting under one's own name, term papers or other reports which have been prepared by others.

2) Students shall not cheat, which is defined as using notes, aids, or the help of other students on tests or exams in ways other than those expressly permitted by the instructor, and as misreporting or altering the data in laboratory or research projects involving the collection of data.

3) Students shall not submit an original paper or project to more than one class without approval from the second instructor. Instructors who do not accept previously submitted papers should so inform the students in the course syllabus.

4) Students shall not furnish materials or information in order to enable another student to plagiarize or cheat.

Plagiarism Prevention and Detection: In its commitment to academic honesty, Cypress College uses Turnitin.com software to prevent and detect plagiarism.

The instructor reserves the right to submit student assignments to Turnitin.com to check for textural similarities between those assignments, Internet sources and the Turnitin.com assignment database. Students will be required to electronically submit their written work for plagiarism checking. Assignments submitted to Turnitin.com will become part of their database and will be used only for plagiarism prevention and detection.

Students agree that by enrolling in a course, assignments may be subject to the above plagiarism prevention and detection processes.

An instructor who has evidence that an act of academic dishonesty has occurred, after speaking with the student, is obligated to take the following steps:

1) Assign an appropriate academic penalty such as an oral reprimand (as in cases where there is reasonable doubt that the student knew that the action violated the standards of honesty); or assign an “F” on all or part of a particular paper, project, or exam (for example, where there was proof that it was a one-time occurrence). In cases where an “F” was assigned, report the incident to all appropriate personnel. (See Step 3).

2) In cases where the dishonesty was serious, premeditated, or part of an ongoing scheme, request an ad hoc review board made up of at least three faculty from the department or division of the instructor involved. This review board is to be appointed by the Academic Senate President or his/her delegate in consultation with the department coordinator, or if none is in place, with the members of the department. Supply to the review board the documents which are suspect and any other documents completed by the student which might help determine if academic dishonesty occurred. It would then be the responsibility of the review board to determine academic penalties as appropriate.

3) Report to the student involved, to the department coordinator, to the Division Dean, and to the Dean of Counseling and Student Development, the alleged incident of academic dishonesty, including relevant documentation, and recommendations for action that he or she deems appropriate.

4) The appropriate Division Dean shall maintain an academic dishonesty file of all cases of academic dishonesty with the appropriate documentation.

5) Students shall be informed when their names are inserted into the file and provided with copies of any appeals or disciplinary procedures in which they may become involved. The appropriate Division Dean may initiate disciplinary proceedings under Education Code, Article 3, Section 76030-76037; when two or more incidents involving the same student occur, he/she shall do so.

6) Students charged with violations resulting in disciplinary action have the right to appeal the findings to the Petitions Committee under the Rules and Procedures of Due Process.
ACADEMIC HONORS

DEAN’S HONOR ROLL
Those students who officially complete (as shown on their transcript) 12 or more units in letter grade courses in a semester and earn a grade point average between 3.0 and 3.74 are placed on the Dean’s Honor Roll.

PRESIDENT’S HONOR ROLL
Those students who officially complete (as shown on their transcript) 12 or more units in letter grade courses in a semester and earn a grade point average of 3.75 or above are placed on the President’s Honor Roll.

ACADEMIC DISTINCTION
Graduates with an accumulated GPA of 3.75 or above are graduated with Academic Distinction which is noted on their diplomas.

HONORS AT ENTRANCE
High school graduates entering Cypress College as first time college students may qualify for “Honors at Entrance” by having earned a 3.5 GPA in high school with physical education grades excluded. The High School transcript must be on file in the Admissions and Records Office. This achievement will be indicated on the college transcript. Application for Honors at Entrance should be made in the Admissions and Records Office during the student’s first semester of attendance.

ACADEMIC RENEWAL POLICY
Cypress College is committed to meeting the educational needs of the community. Open entry encourages students of varied educational backgrounds to pursue their individual goals. The commitment of Cypress College to all students increases the likelihood of enrolling those who have failed in the past but who have shown their readiness to try again. To reduce the negative impact of past academic failure and to facilitate fair and equitable treatment of all students in pursuit of their academic goals, Cypress College supports Academic Renewal. Courses used in awarding an Associate Degree or transfer certification cannot be alleviated.

1.0 The Academic Renewal Procedure (Section 55765, California Code of Regulations) permits the alleviation of students’ previously recorded substandard academic performance that is not reflective of the student’s present demonstrated ability and level of performance. Academic Renewal allows students to show their current level of ability and performance and not to be permanently penalized for poor performance in the past.

2.0 The college may disregard particular previously recorded substandard work in the computation of a student’s cumulative grade point average according to the procedures below:

2.1 Only units taken at the colleges and the School of Continuing Education may be disregarded, not units taken from other college(s). No more than 24 units of substandard grades (D, F, NC and NP) may be disregarded.

2.2 A student may be granted academic renewal only once. Academic Renewal is irreversible once posted to the transcript.

2.3 A student must have completed at least 12 units with a 2.50 GPA at any accredited college or university since receiving the last substandard grade to be disregarded.

2.4 A minimum of 12 months must have elapsed since the most recent coursework to be disregarded was recorded.

2.5 Courses that meet the present educational goals of the students and that are appropriate for repetition may be exempt for consideration for alleviation.

2.6 Students seeking academic renewal must file an Academic Renewal Petition form, available in the Admissions and Records Office. Official transcripts from other colleges must be on file in the Admissions and Records Office.

2.7 Academic Renewal does not guarantee that other institutions outside the District will approve such action. Each transfer institution makes its own determination of how to treat Academic Renewal.

2.8 If the petition is granted, the previous substandard grade(s) will remain legible on the transcript, which will be annotated to show Academic Renewal.

ADVANCED PLACEMENT CREDIT
An Advanced Placement (AP) score of “3” is accepted by Cypress College in order for a student to receive subject credit. Transfer colleges or universities may require a minimum score of “4” or “5” in order to receive subject credit. It is strongly recommended that students discuss the applicability of AP credit with a Cypress College counselor before submitting the AP application. The application for AP credit may be obtained from the Admissions and Records Office or the Admissions and Records link on the college website. In order for the application to be accepted, the official AP scores must be on file in the Admissions and Records Office or submitted at the time of application. Information regarding which subjects can receive local AP credit can be obtained from the Admissions and Records Office. Official transcripts from other colleges must be on file in the Admissions and Records Office.

AP transfer credit awarded for admission and major requirements is determined by the CSU and UC. The UC policy for AP credit as it applies toward a student’s major is located in the Quick Reference for Counselors guide, available for your reference in Counseling Offices, the Transfer Center and also online at http://www.universityofcalifornia.edu/educators/counselors/resources/materials/QRF.pdf. Individual CSU campuses list the AP credit for major-specific requirements on the campus web sites.

Information on AP exam acceptance toward specific categories of IGETC for CSU or UC, CSU GE, and CCC GE requirements and the number of units awarded for each category is located on the following page. You are advised to consult with a counselor for more information.

Attention Students: You should not take classes for which you have earned AP credit unless a specific university requires a higher score and/or your university major requires it. Talk to your counselor if you are uncertain whether or not your university major requires a course that you have already recieved AP credit to determine if you have earned the appropriate score, or need to take the course. Students must file a petition in the Office of Admissions & Records to have AP credit reflected on their transcript.
**AP (Advanced Placement) Scores Applied to General Education**

A student earning a score of 3 or higher on an AP exam meets the following GE areas. The Cypress College transcript will show the AP exam credit applicable to the AA/AS G.E. as detailed below. Admissions and Records evaluators will adjust AP exam credit as applicable when a student applies for CSU G.E. or IGETC certification. *Students should not repeat classes for which they have earned AP credit unless a specific university requires it for their major.*

<table>
<thead>
<tr>
<th>AP Exam</th>
<th>IGETC¹ List Approved Spring 2008</th>
<th>CSU GE List Approved Summer 2008</th>
<th>CCC GE List Approved Spring 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>3A or 3B²</td>
<td>C1 or C2</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Biology</td>
<td>5B with lab²</td>
<td>B2 + B3</td>
<td>B1</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>2A</td>
<td>B4⁺</td>
<td>B2</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>2A</td>
<td>B4⁺</td>
<td>B2</td>
</tr>
<tr>
<td>Calculus BC/AB Subscore</td>
<td>2A</td>
<td>B4⁺</td>
<td>N/A</td>
</tr>
<tr>
<td>Chemistry</td>
<td>5A with lab²</td>
<td>B1 + B3</td>
<td>B1</td>
</tr>
<tr>
<td>Chinese Language &amp; Culture</td>
<td>3B and 6A</td>
<td>C2</td>
<td>C2</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>4B</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>4B</td>
<td>D2</td>
<td>D</td>
</tr>
<tr>
<td>English Language</td>
<td>1A</td>
<td>A2</td>
<td>A1</td>
</tr>
<tr>
<td>English Literature</td>
<td>1A or 3B²</td>
<td>A2 + C2</td>
<td>A1 or C2</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>5A with lab²</td>
<td>B2 + B3 (prior to F'09 only) or B1 + B3</td>
<td>B1</td>
</tr>
<tr>
<td>European History</td>
<td>3B or 4F² (and US1)</td>
<td>C2 or D6</td>
<td>D</td>
</tr>
<tr>
<td>French Language</td>
<td>3B and 6A</td>
<td>C2</td>
<td>C2</td>
</tr>
<tr>
<td>French Literature</td>
<td>3B and 6A</td>
<td>C2 (prior to F'09 only)</td>
<td>C2</td>
</tr>
<tr>
<td>German Language</td>
<td>3B and 6A</td>
<td>C2</td>
<td>C2</td>
</tr>
<tr>
<td>Comparative Government &amp; Politics</td>
<td>4H (and US2)</td>
<td>D8</td>
<td>D</td>
</tr>
<tr>
<td>U.S. Government &amp; Politics</td>
<td>4H</td>
<td>D8 &amp; US-2</td>
<td>D</td>
</tr>
<tr>
<td>Human geography</td>
<td>4E</td>
<td>D5</td>
<td>D</td>
</tr>
<tr>
<td>Italian Language &amp; Culture</td>
<td>3B and 6A</td>
<td>C2 (prior to F'10 only)</td>
<td>C2</td>
</tr>
<tr>
<td>Japanese Language &amp; Culture</td>
<td>3B and 6A</td>
<td>C2</td>
<td>C2</td>
</tr>
<tr>
<td>Latin Literature</td>
<td>3B and 6A</td>
<td>C2 (prior to F'09 only)</td>
<td>C2</td>
</tr>
<tr>
<td>Latin: Vergil</td>
<td>3B and 6A</td>
<td>C2</td>
<td>C2</td>
</tr>
<tr>
<td>Music Theory</td>
<td>n/a</td>
<td>C1 (prior to F'09 only)</td>
<td>n/a</td>
</tr>
<tr>
<td>Physics B</td>
<td>5A with lab²</td>
<td>B1 + B3</td>
<td>B1</td>
</tr>
<tr>
<td>Physics C Mechanics</td>
<td>5A with lab²</td>
<td>B1 + B3</td>
<td>B1</td>
</tr>
<tr>
<td>Physics C Electricity/Magnetism</td>
<td>5A with lab²</td>
<td>B1 + B3</td>
<td>B1</td>
</tr>
<tr>
<td>Psychology</td>
<td>4I</td>
<td>D9</td>
<td>D</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>3B and 6A</td>
<td>C2</td>
<td>C2</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>3B and 6A</td>
<td>C2</td>
<td>C2</td>
</tr>
<tr>
<td>Statistics</td>
<td>2A</td>
<td>B4</td>
<td>B2</td>
</tr>
<tr>
<td>Studio Art</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>U.S. History</td>
<td>3B or 4F² (and US1)</td>
<td>(C2 or D6) &amp; US-1</td>
<td>D</td>
</tr>
<tr>
<td>World History</td>
<td>3B or 4F³</td>
<td>C2 or D6</td>
<td>D</td>
</tr>
</tbody>
</table>

¹ There is no equivalent AP exam for the Area 1B, Critical Thinking/Composition, requirement.
² AP Exams may be used in either area regardless of where the certifying CCC’s discipline is located.
³ AP exams in Biology, Chemistry, or Physics B earn 4 semester or 5 quarter units toward IGETC certification. For Environmental Science, Physics C: Mechanics and Physics C: Electricity/Magnetism, 3 semester or 4 quarter units are applied for IGETC certification.
⁴ If a student passes more than one AP exam in calculus or computer science, only one examination may be applied toward the CSU baccalaureate degree.
⁵ If a student passes more than one AP Exam in physics, only 6 units of credit may be applied to the baccalaureate, and only 4 units of credit may be applied to a certification in GE Breadth.

*Note:* Actual AP transfer credit awarded for admission and major requirements is determined by the CSU and UC.
ATTENDANCE

Regular attendance is expected of every student. Attendance at the first class meeting is strongly recommended since a full period of instruction begins the first day of the class. Any student not attending the first class meeting may be dropped by the instructor.

In the case where a class is taught entirely online, instructors may drop students who have not been in contact with the instructor by the end of the first day of classes for that semester or short-term session.

ABSENCES

Absences are handled as follows:

- After a student accumulates in any class more than a week’s absences (more than the number of times the class meets per week), consecutive or nonconsecutive, an instructor may drop the student according to the drop deadline dates.

- In the case of hybrid and online classes, an absence may be identified as “a missed assignment,” “a missed assignment series” or “inactivity in the course site as evidenced by Blackboard’s tracking statistics.” It is up to the instructor to decide which system to use. It is also the instructor’s responsibility to specify in the written syllabus what constitutes “a missed assignment,” “a missed assignment series” or “inactivity in the course site.” For example, in a three-unit online class (that would typically meet on campus three hours a week), the fourth “missed assignment” or the fourth “missed assignment series” or eight consecutive days of “inactivity in the course site” could be grounds for dismissal.

- A student who must miss one or more classes because of a field trip or other authorized activity, such as athletics or music groups, will be issued an Authorized Absence Excuse (available in each division office) by the instructor under whose supervision the activity will occur. The student shall have this excuse signed by the instructors of the classes that will be adversely affected by the absence. The signed excuse must be presented to the instructor in charge of the activity, who shall in turn file it with the Admissions and Records Office upon the conclusion of the activity.

- No absence excuses a student from making up class work missed. Students should realize that undue absences may adversely affect their grades.

- In the event a student is absent for a prolonged period of time it is expected that contact will be made with the respective instructors immediately to advise the instructor of this absence and the reasons for it. The instructor may then decide whether or not the student may continue in the class or withdraw. It should be noted that failure to make this contact and follow through with the decisions made at this time could result in the student receiving a grade of “F” or “NP” in the class.

STUDENT RESPONSIBILITY

While an instructor may drop a student who has poor attendance, it is the student’s responsibility to officially drop the class. The student must log onto WebStar during its operating hours, access WebStar Registration and drop the class. Failure to officially withdraw from a class may result in a grade of “F” or “NP” being assigned. Refer to the Class Schedule for further instructions on “How to Add/Drop a Class”.

AUDITING

Enrolled students who wish to audit a class must file a petition with the Admissions and Records Office. Auditing is available for students who have successfully completed the class for credit and taken the course the maximum times allowed at Cypress College. Upon consultation with the instructor and the dean of the division involved, Admissions and Records will review the petition for approval or denial. Once the request has been approved, students will not be permitted to change from an audit to a credit status. For required fees and additional information, contact the Admissions and Records Office.

CALIFORNIA ARTICULATION NUMBER (CAN) CODES

The California Articulation Number (CAN) System has served as a statewide numbering system independent from course numbers assigned by local colleges. CAN numbers had been used in the past to signal that a participating California college and university had determined that courses offered by other campuses were compatible in content and scope to courses offered on that campus.

Beginning fall 2009, CAN numbers were no longer used for this purpose. You may contact the Articulation Office/Transfer Center with any questions at: 714-484-7129.

CATALOG RIGHTS

Cypress College issues a new catalog each year. The information published in the catalog is in effect for the academic year beginning with the fall semester and concluding with the summer session.

The courses required for a specific degree or certificate, or general education may change from one catalog to the next and, therefore, may change during the period of time that a student attends the college. Catalog rights, established when a student first takes classes at the college, protect the student from being held for additional requirements that may be added to a later catalog.

For the purposes of meeting graduation or certificate requirements, students may elect to meet the requirement of either

1. The catalog that was in effect at the time they began taking courses at Cypress College, or

2. Any catalog that is or has been in effect during the time that they have maintained continuous enrollment before graduation, or

3. The catalog that is in effect at the time they file an application for a degree or certificate.

Students maintain catalog rights by maintaining continuous enrollment at Cypress College – that is, by receiving a grade of “A”, “B”, “C”, “D”, “F”, “CR”, “P”, “NC”, “NP”, “RD”, “W”, or “I” on their transcripts for at least one course per academic year. Documented military or medical leave or attendance at another regionally accredited institution of higher learning will not be considered an interruption of enrollment. This policy supersedes all previous catalog rights provisions and applies only to programs at Cypress College.
CHALLENGING PREREQUISITES, COREQUISITES, OR OTHER LIMITATIONS ON ENROLLMENT

Grounds for Challenge
Where a student is denied enrollment in a program or course on the grounds that the student does not meet a prerequisite or corequisite, or on the basis of other limitations on enrollment, the student may challenge such prerequisite, corequisite or limitation on one or more of the following grounds:

1. The prerequisite, corequisite or other limitation on enrollment has not been established in accordance with the district’s process for establishing prerequisites, corequisites, and other limitations on enrollment.
2. The prerequisite, corequisite or other limitation on enrollment is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner.
3. The basis upon which the district has established an enrollment limitation does not in fact exist.
4. The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite.
5. The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or corequisite course has not been made reasonably available by the college.

Burden of Proof
The student shall bear the burden of proof in demonstrating that grounds exist for the challenge.

1. In the case of a challenge under Grounds for Challenge number 4, the student shall provide evidence of knowledge and/or skills, by virtue of placement/assessment testing, academic coursework, independent learning, experience, or a combination of these which are at least equivalent to the knowledge and/or skills the student would have possessed had he or she successfully completed the prerequisite or corequisite.
2. In the case of a challenge under Grounds for Challenge number 5, the student shall provide evidence that the student has declared a broad educational intent or specific educational goal and has developed a Student Educational Plan in conformity with the provisions of Section 55530(d) of Subchapter 6 of Chapter 6 of Division 6 of Title 5 of the California Code of Regulations.

Challenge Procedure
Filing of Challenge:

1. A challenge with respect to any prerequisite, corequisite or limitation on enrollment initiated pursuant to this policy shall be made upon the appropriate challenge form, which may be obtained from the Matriculation or the Office of Instruction.
2. The completed challenge form must be filed with the Office of Instruction in accordance with the following deadlines:
   a. for the Fall term, not earlier than Friday of the fifteenth week of the Spring semester and not later than the first day of instruction for the Fall semester;
   b. for the Spring term, not earlier than Friday of the twelfth week of the Fall semester and not later than the first day of instruction for the Spring Semester.

3. In the case of a challenge under Grounds for Challenge number 4, the completed challenge form must be accompanied by appropriate evidence of skill or accomplishment such as placement/assessment results, transcripts from an accredited institution or appropriate foreign institution, work-related experience, or other evidence of relevant experience. To warrant consideration, any such evidence shall be of a clear and reliable nature.

CHANGE OF NAME OR ADDRESS
Students who wish to change their name on official college records must submit the Change of Name form with the Admissions and Records Office. Proof of a legal name change and picture identification will be required to complete the process. It is recommended that a new student I.D. card be obtained. The fee for a new card is $2.50. Mailing and e-mail addresses can be updated by accessing the "Personal Information" channel on myGateway.

CLASS CANCELLATIONS
Cypress College reserves the right to cancel any class for which enrollment is not sufficient to warrant continuation, and to change the class hours and/or days as necessity demands.

CLASS TRANSFERS
A student may change from one section to another of an identical course with the same or different instructors provided the instructors approve. The change may take place at the same or different level in the same subject area at any time during and up through the 14th week for semester length classes, provided both instructors approve. The class must be of like duration, i.e., exactly the same length. Consult the Admissions and Records Office for information on the required class transfer process and deadlines for classes that meet less than the full length of the semester.

CLEP EXAMINATION CREDIT
Cypress College accepts the following CLEP (College Level Examination Program) exams for general education category credit for vocational/occupational associate degrees only.

- English Composition (with essay) with a score of 50 or higher
- College Composition (effective 7/1/10) with a score of 50 or higher.

Credit is not granted on a course-by-course basis. Please consult with a counselor for more information regarding how CLEP may apply for CSU GE-breadth categories for transfer.
COMPUTING RESOURCES

ACCEPTABLE USE POLICY

PURPOSE: The purpose of this document is to explain the terms of use for instructional computing resources available to students of Cypress College. All computing resources are intended to support the research and educational mission of Cypress College; their use is a privilege and a responsibility. The use of computing resources is subject to all applicable local, state and federal laws, the general guidelines outlined in this document, and any specific guidelines in effect at individual campus computing centers. The district “Acceptable Use/Computer and Electronic Communication Systems” policy can be found at http://www.noaccdd.cc.ca.us/Policies/PDFs/3720.BP.final_032904.pdf and http://www.noaccdd.cc.ca.us/Policies/PDFs/3720.AP.final_032904.pdf.

DEFINITION: As used in this document, computing resources include (but are not limited to): Enterprise server terminals, personal computers, local area networks (LANs), wide area networks (WANs), printers, CD-ROM drives, cables, connections, software applications such as word processing, database and spreadsheet programs, library catalogs, full-text databases, telecommunications packages, all Internet resources and services, and all other computer equipment and software.

CAMPUS COMPUTING CENTERS: Individual computing centers maintain their own specific policies regarding the use of their resources. Users of individual computing centers are to follow these policies. Computing centers are authorized to enforce both the campus Acceptable Use Policy and their own individual policies. Users who establish individual computer accounts for use of Internet e-mail or other applications will be required to sign an agreement to abide by the policies of the computing center issuing those accounts.

ENFORCEMENT: The acceptable use policy is intended to establish and declare the personal responsibility of every individual who uses any computing resource at Cypress College. By making this policy public and available to all users of computing resources on the campus, Cypress College and its designated representatives reserve the right to deny any or all computing privileges from any individual who refuses to follow the guidelines for responsible computing use. Cypress College also reserves the right to limit, restrict, or deny access to any and all computing resources as the individual situation may require.

GENERAL GUIDELINES: The following guidelines are to be followed by every individual who makes use of computing resources at Cypress College:

The use of computing resources and any resources accessed by them is for the instructional purposes of Cypress College. Individual computing centers reserve the right to restrict activities such as personal e-mail or games when instructional needs require the computing resources.

No tampering with the computing resources. This includes but is not limited to: connecting or disconnecting computer equipment, unauthorized loading of software on a computer, or otherwise altering the set-up of any computer or network of computers in any way.

No illegal use of computing resources. This includes but is not limited to: loading virus programs onto or from any computer system, using the Internet or other telecommunications-based resources to transfer illegal materials or unauthorized versions of copyrighted material, using the Internet to harass, terrorize, blackmail, defraud, or otherwise abuse another person, or using any computing resource in such a manner that it constitutes the breaking of a District or campus policy, or a local, state or federal law.

No use of computing resources for financial or political gain. This includes but is not limited to: sending “chain letters” or other unauthorized and illegal correspondence, advertising, marketing or selling of products, and campaigning for any political cause or individual.

No violation of other individuals’ privacy or rights. This includes but is not limited to: accessing another person’s account or any data stored and used by that person, sharing another person’s private correspondence with others, destroying or modifying data that belongs to someone else, or sending offensive messages of any kind.

Observe all regulations and rules of the individual computing centers. This includes but is not limited to: observing hours of operation, maintaining a reasonable level of quiet in order for others to work, and following all that center’s policies regarding food and beverage use, time limits, printing and downloading, and any other terms of use.

Failure to follow these guidelines may result in disciplinary action on the part of Cypress College and any of its designated representatives (including individual computing centers). Such action may include: restriction or suspension of computing privileges at any or all individual campus computing centers suspension of other campus privileges, including registration and enrollment, and notification of law enforcement officials.

CONTINUOUS ENROLLMENT
See Catalog Rights.

COURSE DOUBLE COUNTING
Students can double count courses but not units of credit to meet major and general education requirements for graduation.

COURSE NUMBERING
Courses completed at Cypress College will transfer to other community colleges. Courses numbered 001 C-099 C are remedial, occupational and/or technical and designed in content and organization for students who do not intend to transfer for the Bachelor’s degree. Courses numbered from 100 C-299 C (including Honors courses) have been certified by Cypress College as being of baccalaureate level for the current school year and as such are transferable to any campus of the California State University system. The transfer institution, however, will determine the extent to which a course satisfies the requirements of a particular degree program. Credit not otherwise applied shall be acceptable as general electives to the extent that the particular degree objective permits.

Students who plan to transfer to any campus of the University of California or other university or college should check with a counselor for transferable courses since some universities do not accept all courses numbered 100 C-299 C.

COURSE PROGRESSION
Students are expected to take courses on an accepted progressive basis. Students will not receive credit for classes which are considered lower in degree of advancement than those already taken.
COURSE REPEAT ADJUSTMENT

In the case of a legally repeated course in which a student initially received a “D” or “F” grade at Cypress College, the original grade will be excluded from the grade point average upon request by the student. If the student opts to repeat the course a second time, the last grade received will be the only grade included in the student’s grade point average. A remaining substandard grade for the same course will not be excluded from the student's grade point average except by an approved Academic Renewal. The exception to Academic Renewal is if the student has used the remaining substandard grade for the completion of an associate degree or transfer certification.

A course repeat adjustment card can be obtained in the Admissions and Records Office, and must be submitted by the student. If approved, the student’s Cypress College permanent record shall be annotated in such a manner that all course work remains legible; however, Cypress College does not annotate or otherwise alter the permanent records of any other institution.

COURSE REPETITION

A course may generally be repeated under the following circumstances:

- No more than two (2) substandard grades (D, F, NC or NP) have previously been earned in the course at Cypress and Fullerton Colleges. “W” grades may be considered substandard.
- No more than four (4) withdrawals (W) have been made from the course between Cypress and Fullerton Colleges.
- The course is identified in the College Catalog or Class Schedule as one that may be taken a specific number of times (e.g. PE 152 C may be taken for credit four times).
- The course is for legally-mandated training. Such courses may be repeated any number of times regardless of whether the previously recorded work was passing or substandard. The grade received each time shall be included for purposes of calculating the student’s GPA (California Code of Regulations, Title 5, Div. 6, Ch. 6, Subch. 9, Section 55763).
- The student has verified disabilities and course repetition is seen as being part of “an accommodation to a student’s educational limitations pursuant to state and federal non-discrimination laws” (California Code of Regulations, Title 5, Section 56029).
- A Petition for Exception has been approved by the Admissions and Records Office. Neither additional units or grade points will be earned for multiple repeats in which a passing grade (A, B, C, CR or P) was originally received.

To make up a substandard grade received at Cypress College a student may repeat the equivalent course at any other accredited college or university in the United States. Students are advised that most four-year colleges and universities have limitations on transfer credit for course repetitions. Course repetitions does not apply to activity, variable unit and repeatable courses.

Effective May 2009, many of the processes for course repetition have changed for California Community Colleges. In order to comply with the recent revisions of Title 5, students are advised to see an academic counselor prior to repeating a course.

CREDIT BY EXAMINATION

The basic purpose of Credit by Examination is to allow unit credit for prior or advanced knowledge of class material by the student. Currently enrolled students in good standing may request Credit by Examination (also known as “challenging” a course) in a subject matter field in which they are especially qualified through previous training or experience if credit or advanced placement has not previously been given in that field. Examinations will be sufficiently comprehensive to determine that the student has essentially the same knowledge and skills as a student who successfully completes the course.

It is hoped that students will take advantage of this opportunity in order to enroll in more advanced courses in the subjects challenged. Credit by Examination is not intended to replace make-up examinations for courses not completed and/or courses taken in high school. The student should contact the Dean of the appropriate division prior to the ninth week of the semester to initiate the process with a Credit by Examination petition. Students may take the Examination if their petition is approved.

Credit by Examination and Proficiency Examinations may be taken only by students enrolled in the College. Only one challenge is allowed for each course, and a maximum of 12 units will be granted via Credit by Examination.

- Completed petitions will be received until the ninth week of each semester. Examinations will normally be administered during the 13th and 14th weeks only. Specific arrangements as to day and hour are to be made with the instructor.
- Criteria for petition approval will be determined by the appropriate division. General guidelines will include evidence of previous learning experience, evidence to indicate probable success in the examination, and future enrollment plans.
- Appeals upon denial of a student's petition will be brought to the Petitions Committee at the student's request.
- The Academic Divisions will determine which courses are eligible for challenge. Examination content and grade standards will also be determined by division faculty.

In instructor-administered examinations, results will be announced within two weeks after the examination week. Exams are graded on a Pass/No Pass basis. The student may choose whether or not to have passing results recorded on his or her permanent record. If the student chooses to have the results recorded, the Pass (P) grade and the unit value will appear with a notation indicating the credit was obtained by Credit by Examination.

Some of the courses challenged by examination may be taken for a letter grade. These will not count toward the twelve residency units required by Cypress College to earn an associate degree. For courses which may be taken for a letter grade, students who plan to transfer to a four-year institution should not choose the Pass/No Pass grading option. Many transfer institutions will not accept Credit/No Credit or Pass/No Pass graded courses to be applied toward major, minor and general education requirements. Students should check the catalog of the transfer institution and see their counselor for further information. There is a current rate per unit fee for taking the challenge examination.
The following courses may be challenged by examination:

- ACCT 101 Financial Accounting
- ATC 191 C Airline Reservations: APOLLO
- AVIA 090 C Flight Training - Private Pilot
- AVIA 091 C Flight Training - Instrument Rating
- AVIA 092 C Flight Training-Commercial Pilot
- AVIA 093 C Flight Training - Flight Instructor
- AVIA 232 C Instrument Rating (for first credit only)
- Court Reporting Courses
- Computer Info Systems
- Dental Assistant Courses
- Dental Hygiene Courses
- Health Info Tech Courses
- MATH 130 C Survey of Calculus
- MATH 150AC Calculus and Analytic Geometry
- MATH 150BC Calculus and Analytic Geometry
- MATH 250AC Intermediate Calculus
- MATH 250BC Intermediate Calculus
- MGT 111 C Business Communications
- PE 234 C Contemporary Personal Health
- PSY 220C Psychiatric Tech Courses
- Radiologic Tech Courses
- See Business Division Dean
- See Dept. Program Director
- See Department Program Director
- See Department Program Director
- See Department Program Director
- See Department Program Director
- See Division Dean
- See Dept. Program Director

PASS/NO PASS GRADING (formerly Credit/No Credit Grading)

Students may choose to enroll in up to 6 units each semester on a Pass/No Pass basis. This option was designed to encourage students to explore courses in areas where they feel they have an interest but no special competence. Some of these courses may be taken for a letter grade. P/NP is not the same as auditing and students who plan to transfer to a four-year institution should not choose the Pass/No Pass grading option. Many transfer institutions will not accept Pass/No Pass graded courses to be applied toward major, minor and general education requirements. Check the catalog of the transfer institution and/or see a counselor for further information.

The following policies govern Pass/No Pass grading at Cypress College:

- A maximum of 12 units of Pass/No Pass courses, excluding COUN 140 C and work experience, will be allowed at Cypress College.
- All units earned as Pass/No Pass shall be disregarded in determining a student’s GPA at Cypress College.
- The units earned on a Pass/No Pass basis shall be counted toward the AA or AS 60-unit requirement. If a course is transferable with a letter grade, it may also be transferable with a credit grade subject to the limitations imposed by the transfer institution. See the catalog of the transfer institution and/or a counselor for further information.

- After consulting with a counselor and the instructor, students must complete a Pass/No Pass Request to advise the instructor that they wish to take the course as Pass/No Pass. The deadline for submitting this request to the instructor is the end of the sixth week of a full-semester class and 30% of short-term, open-entry and summer classes. The student must then submit the form to the Admissions and Records Office. If the form is not filed with the Admissions and Records Office, the instructor will be required to submit a grade other than Pass/No Pass.
- Students may not change grading systems after the submission deadline.
- A Pass (P) grade will reflect performance equivalent to a C or better under the letter grade system. Performance not equivalent to a C or better will receive a No Pass (NP) grade.

EXAMINATIONS

Class instruction includes frequent examinations throughout the semester so that students can judge their progress. Final examinations are given in all courses during the last week of each semester. The final examination is a requirement for each course. All students must take these examinations at the scheduled time and place. The final examination schedule is published in the class schedule. Any exceptions to the above policy will be made only after consultation with the Division Dean.

GRADE CHANGE

Any change in a grade given by an instructor shall be subject to California Education Code Section 76224 (a): When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student’s grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final.

Students having a grievance related to a grade received from an instructor should follow procedures detailed under Petitions in this Catalog. Students should be aware that no grade change will be made after five years from the date of the assignment of the grade. When a grade given in error has been corrected, the incorrect grade is expunged from the student’s permanent record.

GRADE REPORTS

Students can access grades using myGateway. Grades are generally available approximately three weeks after the end of the semester.
GRADES AND GRADE POINT AVERAGE

Grades are based upon the quality of work completed, i.e., upon actual accomplishment in courses offered for credit. The GPA is computed by dividing all GPA hours/units into quality points received. The meaning of each symbol and its value in quality points is as follows:

A Superior or Excellent — (4 quality/grade points): Honor grade indicating excellence earned as a result of consistently superior examination scores, consistently accurate and prompt completion of assignments, ability to deal resourcefully with abstract ideas, superior mastery of pertinent skills, and promise of success in field relating to the subject.

B Better than Average — Good (3 quality/grade points): Honor grade indicating competence earned as a result of high examination scores, accurate and prompt completion of assignments, ability to deal well with abstract ideas, commendable mastery of pertinent skills, and promise of continued success in sequential courses.

C Average — Satisfactory (2 quality/grade points): Standard college grade indicating successful performance earned as a result of satisfactory examination scores, generally accurate and prompt completion of assignments, ability to deal with abstract ideas, average mastery of pertinent skills, and sufficient evidence of ability to warrant entering sequential courses.

D Passing — (1 quality/grade point): Substandard grade indicating the meeting of minimum requirements only earned as a result of low examination scores, generally inaccurate, incomplete or late assignments, inadequate grasp of abstract ideas, barely acceptable mastery of pertinent skills, or insufficient evidence of ability to make advisable enrollment in sequential courses.

F Failing — (no quality/grade points): Non-passing grade indicating failure to meet minimum requirements earned as a result of non-passing examination scores, inaccurate, incomplete or late assignments, failure to cope with abstract ideas, inadequate mastery of pertinent skills or repeated absence from class.

I Incomplete — (no quality/grade points, no GPA units): Incomplete academic work for unforeseeable, emergency and justifiable reasons at the end of the term may result in an I symbol being entered in the student’s record. The condition for removal of the I shall be stated by the instructor in a written record. This record shall contain the conditions for removal of the I and the grade assigned in lieu of its removal. This record must be given to the student with a copy on file with the Registrar until the I is made up or the time limit has passed. A final grade shall be assigned when the work stipulated has been completed and evaluated, or when the time limit for completing the work has passed. The I may be made up no later than one year following the end of the term in which it was assigned. Under unusual circumstances a student may petition for a time extension. An incomplete grade must be changed to a letter grade before it can be repeated.

IP In progress — (no quality/grade points, no GPA units): If a student making satisfactory progress in an open entry course has not finished a course at the end of a semester, the student shall be given an “IP”, which indicates the student is in progress of completing the course. The student must re-enroll in the course if the student wishes to continue working in that course. Failure to do so will result in an assignment of a grade by the instructor in place of the “IP”. “IP” shall not be used in calculating grade point averages.

P Pass (formerly Credit) — (no quality/grade points, no GPA units, but counts for units completed): Pass means that credit has been earned for the course although there are no grade points and the grade is not used in computing the grade point average, and will reflect performance equivalent to a C or better under the letter grade system.

NP No Pass (formerly No Credit) — (no quality/grade points, no GPA units, no units completed): No Pass means that neither units nor grade points have been earned. Units for which NP is given are not to be used in calculating grade point averages.

RD Report Delayed — (no quality/grade points, no units completed): The RD symbol may be assigned by the Registrar only. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible and shall not be used in calculating a grade point average.

W Withdrawal — (no quality/grade points, no units attempted, no units completed): A “W” is a grade indicated that the student has withdrawn from college or dropped from a class section prior to the 14th week of a semester. The grade indicates the course has been cancelled from the student’s program of study without credit and is not included in the GPA computation. (See Withdrawal Policy)

MW Military Withdrawal — (no quality/grade points, no GPA units, no units completed): Military withdrawal means the student is a member of an active or reserve United States military service and was forced to withdraw because of military orders. Students shall be permitted to withdraw upon verification of such orders. Students must submit a copy of their orders to the Admissions and Records Office. Military withdrawal shall not be counted in progress probation or dismissal calculations.

INTERNATIONAL TRANSCRIPT EVALUATIONS

Students who have attended colleges and universities outside of the United States and believe they have successfully completed courses applicable to the Associate Degree or Certificate requirements must have their transcripts evaluated by an approved international evaluation agency before credit can be determined. A list of approved agencies is available in the Counseling, Admissions and Records and International Student Offices. Students who desire credit for ENGL 100 C will need to have their transcripts evaluated, achieve a satisfactory score on the English Assessment test and meet with a counselor.
NON-DEGREE CREDIT COURSES (Basic Skills)
These courses are intended to help students gain the skills they need to perform in "college level" courses. Therefore, Non-degree credit courses are not applicable toward the Associate Degree. However they do apply toward the following categories: Athletic Eligibility, Social Security Benefits, Work Study and Financial Aid, Associated Student Body Office and Full-Time Status.

The following are Non-Degree Credit courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 060 C</td>
<td>Chemistry Review</td>
</tr>
<tr>
<td>CIS 050 C</td>
<td>Intro-Comp &amp; Software Concepts</td>
</tr>
<tr>
<td>COUN 040 C</td>
<td>Academic Success and College Survival</td>
</tr>
<tr>
<td>COUN 071 C</td>
<td>Career Preparation &amp; Life Management</td>
</tr>
<tr>
<td>COUN 072 C</td>
<td>Learning Disabilities Assessment</td>
</tr>
<tr>
<td>DMS 060 C</td>
<td>Introduction to Sonography</td>
</tr>
<tr>
<td>ENGL 027 C</td>
<td>Basic Study Skills</td>
</tr>
<tr>
<td>ENGL 057 C</td>
<td>Reading &amp; Writing I</td>
</tr>
<tr>
<td>ENGL 058 C</td>
<td>Reading &amp; Writing II</td>
</tr>
<tr>
<td>ENGL 060 C</td>
<td>College Writing Preparation</td>
</tr>
<tr>
<td>ESL 044 C</td>
<td>Beginning Oral Skills</td>
</tr>
<tr>
<td>ESL 051 C</td>
<td>Intermediate Pronunciation</td>
</tr>
<tr>
<td>ESL 052 C</td>
<td>Intermediate ESL Grammar 1</td>
</tr>
<tr>
<td>ESL 053 C</td>
<td>Intermediate Grammar 2</td>
</tr>
<tr>
<td>ESL 054 C</td>
<td>Intermediate Oral Skills</td>
</tr>
<tr>
<td>ESL 062 C</td>
<td>Advanced ESL Grammar 1</td>
</tr>
<tr>
<td>ESL 063 C</td>
<td>Advanced ESL Grammar 2</td>
</tr>
<tr>
<td>ESL 064 C</td>
<td>Advanced Oral Skills</td>
</tr>
<tr>
<td>MATH 010 C</td>
<td>Basic Mathematics</td>
</tr>
<tr>
<td>MATH 015 C</td>
<td>Pre-Algebra</td>
</tr>
<tr>
<td>MATH 020 C</td>
<td>Elementary Algebra</td>
</tr>
<tr>
<td>MATH 025 C</td>
<td>Elementary Algebra Review</td>
</tr>
<tr>
<td>MATH 045 C</td>
<td>Intermediate Algebra Review</td>
</tr>
<tr>
<td>MATH 060 C</td>
<td>Advanced College Math</td>
</tr>
<tr>
<td>PHYS 021 C</td>
<td>Problem Solving-Mechanics</td>
</tr>
<tr>
<td>PHYS 022 C</td>
<td>Problem Solving-Electricity</td>
</tr>
<tr>
<td>PHYS 023 C</td>
<td>Phys 221 C Problem Solving</td>
</tr>
<tr>
<td>PHYS 024 C</td>
<td>Phys 222 C Problem Solving</td>
</tr>
<tr>
<td>HS 030 C</td>
<td>Calculations for Medications</td>
</tr>
<tr>
<td>HS 070 C</td>
<td>Health Care Communication</td>
</tr>
<tr>
<td>NURS 091 C</td>
<td>Strategies for Success in Nursing</td>
</tr>
<tr>
<td>PHYS 091 C</td>
<td>Physics 221 C Problem Solving</td>
</tr>
<tr>
<td>PHYS 092 C</td>
<td>Physics 222 C Problem Solving</td>
</tr>
</tbody>
</table>

All other Cypress College courses are degree applicable.

PROBATION AND DISMISSAL POLICIES
In accordance with state regulations, the following probation and dismissal policies have been established. The primary purpose is to ensure that a student is making satisfactory progress toward an educational objective and to alert the student and the student’s counselor to the possible need for additional counseling and/or special services.

PLACEMENT ON SCHOLASTIC PROBATION

Academic Probation - A student who has attempted at least 12 semester units at the college shall be placed on academic probation if the student has earned a cumulative grade point average below 2.0 in all units taken at Cypress College.

Progress Probation - A student who has enrolled in a total of at least 12 semester units at the college shall be placed on progress probation when the student receives grades of “W”, “I”, “NC” or “NP” in 50% or more of all units for which the student has enrolled at Cypress college. For purposes of progress probation, grades of “W”, “I”, “NC” or “NP” are counted as incomplete work.

The college will make a reasonable effort to notify students who are placed on scholastic probation at the end of each term. Students who are on probation shall be automatically considered conditional registrants, and their programs are subject to adjustment and/or restrictions.

REMOVAL FROM SCHOLASTIC PROBATION

Academic Probation - A student shall be removed from academic probation when the student’s cumulative grade point average in all units completed at Cypress College is 2.0 or higher.

Progress Probation - A student shall be removed from progress probation when the proportion of “W”, “I”, “NC” or “NP” units drops below 50% of all units for which the student has enrolled at Cypress College.

STANDARDS FOR SCHOLASTIC DISMISSAL

Academic Dismissal - A student who is on academic probation shall be subject to dismissal if the student has earned a cumulative grade point average of less than 1.75 in two consecutive semesters.

Progress Dismissal - A student who is on progress probation shall be subject to dismissal if the cumulative percentage of units in which the student has been enrolled for which entries of “W”, “I”, “NC” or “NP” are recorded in at least two consecutive semesters reaches or exceeds 50%.

The college will make a reasonable effort to notify a student who has been scholastically dismissed not later than the beginning of the Fall semester each year. Scholastic dismissal will be noted on the student’s academic transcript.

PETITIONS AND APPEALS
Petitions and appeals that relate to policies on admissions, readmission after academic dismissal, degree and certificate requirements, grades and credit, repetition of courses, academic renewal, withdrawals, etc., should be directed to the Admissions and Records Office.
READMISSION AFTER SCHOLASTIC DISMISSAL
A dismissed student may be considered for readmission after filing a petition in the Admissions and Records Office.

If readmitted:

• Students are considered conditional registrants and their programs are subject to adjustment and/or restrictions.

• Students readmitted after academic dismissal will remain on academic probation until they achieve a cumulative grade point average of 2.0 or higher.

• Students readmitted after progress dismissal will remain on progress probation until the ratio of cumulative units completed is greater than 50% of the cumulative units in which the student has enrolled.

PROFICIENCY EXAMINATION

READING
Proficiency in reading may be satisfied by ENGL 096 C, ENGL 102 C or ENGL 106 C, by CSU general education certification or IGETC certification or by a satisfactory score on the Cypress College reading proficiency examination.

The Reading Proficiency Examination is administered at the Assessment Center. No units are given for passing the Reading Proficiency Examination, nor is the total number of units required to complete the Associate Degree lowered. Students who meet the area requirement by the proficiency exam are still required to satisfy the 60-unit requirement for graduation. Proficiency exams may be taken only once after completion of English 100 C or equivalent.

This exam will be administered from September to May as published in the Class Schedule under STEP TWO, ENGLISH ASSESSMENT. Students should contact the Assessment Center for further information.

MATHEMATICS
A satisfactory score on the Mathematics Proficiency Examination waives the three-unit Mathematics General Education Requirement for the Associate Degree (Category B2). No units are given for passing the Mathematics Proficiency Examination, no units are posted to the student’s permanent record, nor is the total number of units required to complete the Associate Degree reduced. Refer to the Mathematics section in the Class Schedule. The Mathematics Proficiency Examination is given only once a semester (usually the sixth week) and can only be taken once (pass or fail). Both a MATH 020 C and a MATH 040 C Proficiency Exam will be administered. Students are advised to check with a counselor to see which test they need in order to meet the graduation requirement.

REMEDIAL LIMITATION
The State of California has implemented a regulation limiting the number of units students can earn for remedial/pre-collegiate basic skills courses to 30 semester units. In accordance with those guidelines, the North Orange County Community College District has established the following policy (AB 1725 Chapter 973, Statutes of 1988).

PRE-COLLEGIATE BASIC SKILLS COURSES
Pre-Collegiate/basic skills courses are defined as those two or more levels below college level and one or more levels below intermediate algebra. The North Orange County Community College District has designated certain courses as remedial/pre-collegiate basic skills courses. These courses include reading, writing, computation, learning skills, and study skills designed to ensure acquisition of those skills necessary for successful completion of associate degree, transfer and occupational courses.

INFORMING STUDENTS
Students shall be informed of the Policy for Remedial Limitation. Courses included will carry an appropriate designation in the Class Schedule and the Policy will appear in the College Catalog. Students enrolling in these courses will be informed of the limit during the matriculation/orientation process and instructors will be required to include this information in the course syllabus. These courses do count toward financial aid, work-study and athletic eligibility.

PROCEDURES DURING REGISTRATION
A non-exempt student who has completed 20 units in designated remedial/pre-collegiate basic skills courses shall be notified of the regulation limiting the number of remedial units. Information on the waiver and referral process will also be included.

EXEMPTIONS
All remedial courses taken by students enrolled in ESL (English as a Second Language) courses are exempted. Students identified by the District for learning disabled programs are also exempted. When, because of closed enrollment, students are unable to enroll in the next higher level ESL course, they do not lose their exemption status. Students with documented disabilities may petition the Admissions and Records Office for exemption status on a case by case basis.

Students transferring to the North Orange County Community College District from other colleges/universities will begin with a clean slate with regard to the remedial limitation. However, since remediation is totaled within a district, students transferring between Cypress and Fullerton College will carry their remedial units with them. Only those courses taken at a regionally accredited college/university, that are determined to be associate degree level courses or higher, will be applied toward an AA/AS degree within the district.

NOTIFICATION
Upon completion of 30 units in designated basic skills courses, non-exempt students shall be notified that they will be unable to enroll in any additional remedial courses. Information on the waiver and referral process will also be included.

WAIVER
Students who show significant, measurable progress toward the development of skills appropriate to enrollment in college-level courses may petition the Admissions and Records Office for a waiver of the limitation on remedial course work. Students will receive a response, in writing, indicating the granting/denial of the petition. If the petition is granted, students will be informed of the specific period of time or the specific courses approved beyond the 30-unit limit. Students will not be allowed to enroll in courses beyond the 30-unit limitation without a waiver, which will only be granted in extenuating circumstances for students who show significant, measurable progress. The 30-unit maximum enrollment limitation is based on end-of-term units earned with any grade.
ENROLLMENT LIMITATION
Students who do not attain full eligibility status for college-level work within the 30-unit limit will not be permitted to enroll in remedial/pre-collegiate basic skills courses unless a waiver is granted. Students will be referred to adult education non-credit courses per State regulations. The Admissions and Records Office will explain to students their enrollment limitation status at the end of the semester.

REINSTATEMENT
A student may, upon successful completion of appropriate remedial course work or upon demonstration of skills levels, which will reasonably assure success in college-level courses, petition to be reinstated to proceed with college level course work. The petition is to be filed with the Admissions and Records Office.

SKILL PERFORMANCE AND ACTIVITY COURSES
A student may enroll more than once in an activity, performance or skills course. These courses designated as repeatable are indicated with the statement, “May be taken for credit ___ times.” The maximum number of times the class may be taken will be given in that statement. Courses that have a designated skills level (beginning, intermediate, advanced) may be taken for a combined total of four times. Example: a student who has taken beginning voice three times and intermediate voice once has completed the maximum number of repetitions allowed for the course, despite the different skill levels. This policy applies to all activity courses.

REVIEW AND RELEASE OF STUDENT RECORDS
In accordance with Title V (California Code of Regulations) Chapter 6, commencing with Section 54600, and the Federal Family Educational Rights and Privacy Act, the North Orange County Community College District has established an official policy for student review of and release of student records. This policy allows for the student to review his or her records after contacting the Admissions and Records Office. The policy also describes when student records will be released to a third party and allows the release of student directory information unless the student informs the Admissions and Records Office that he/she does not want such information released.

This policy is available for student review and includes:
• the types of student records and information maintained;
• the official responsible for the maintenance of each type of record;
• the policies for reviewing and expunging records;
• the right of each student to access of his or her records;
• procedures for challenging the content of student records;
• the cost of producing copies of records;
• the categories of information designated as directory information;
• the locations of any required logs or records;
• definitions of officials and employees and legitimate educational interest and;
• the right of a student to file a complaint with the United States Department of Health, Education and Welfare.

Any student wishing to review this policy in its entirety may do so by contacting the Admissions and Records Office.

PRIVACY RELEASE
Pursuant to the Federal Family Educational Rights and Privacy Act (FERPA) of 1974, the North Orange County Community College District has established Board Policy 5040 – Student Records Privacy, which covers the release of student records. The College may make public, without prior student consent, only certain directory information. This information will consist of the student’s name, major field of study, participation in officially recognized activities and sports including weight and height of athletic team members, dates of attendance, degrees and awards received by the student, including honors, scholarship awards, athletic awards and Dean’s List recognition, the most recent previous public or private school attended, by the student, and any other information authorized in writing by the student.

Students who wish to have this directory information further restricted may do so on the online College Application for Admission or by making the request in the Admissions and Records Office.

No other student information will be disclosed without prior student consent except to college officials and employees of the District with legitimate educational interests unless pursuant to a court order or lawfully issued subpoena, or as otherwise authorized by applicable federal and state laws.


STUDY LOAD
Most full-time students take 12-14 units. Students must take a minimum of 12 units to be classified as full-time. The maximum load for any student is 19 units, exclusive of work experience and guidance classes. After the first semester of enrollment, a student may, with counselor’s approval, carry more units if during the preceding semester he or she earned a grade point average of at least 3.0 in a program of 12 or more units. It may be pertinent for students to consider the following semester unit requirements for particular privileges and activities.

CLASSIFICATION OF STUDENTS
Students are classified as follows:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Units Per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>Enrolled in 12 or more units</td>
</tr>
<tr>
<td>Part-time</td>
<td>Enrolled in fewer than 12 units</td>
</tr>
<tr>
<td>Freshman</td>
<td>Fewer than 30 units completed</td>
</tr>
<tr>
<td>Sophomore</td>
<td>30 or more units completed</td>
</tr>
</tbody>
</table>

Associated Student Office — 6 or more units per semester.

Athletic Eligibility — 12 units per semester, including PE classes.

Financial Aid — Full-Time: 12 units per semester; ½ time: 9 units per semester; ¼ time: 6 units per semester.

Social Security Benefits — 12 units per semester.

Veterans Benefits — Full-Time: 12 units per semester; ½ time: 9 units per semester; ¼ time 6 units per semester.

Work Study — 12 units per semester required.

The faculty recognizes it is necessary for many students to work while attending college. However, it is expected that students demonstrate good judgment when enrolling under these conditions. Students must make allowance for their employment and other outside obligations in planning their college programs.
In order to maintain a proper academic balance, students should consider the following:

- Students should normally expect to spend at least three hours (one in class and two outside of class) per week for each unit taken.
- Employment and college time together should not exceed 60 hours weekly.
- Students should distribute study time appropriately for each class. Often preparation for a lecture class differs from preparation for a laboratory class.
- Students should take advantage of instructor office hours to consult with faculty as often as necessary.

**TITLE IX AND CIVIL RIGHTS GRIEVANCES**

In instances of student grievances relative to Title IX (sex bias or sex harassment), Title VII (Civil Rights), students should contact the Office of the President or designee, within 60 calendar days of the alleged discrimination in order to be apprised of the procedures for filing a grievance.

Any repeated or unwarranted verbal or physical sexual advance, sexually explicit derogatory statement, or sexually discriminatory remark made by someone at school which is offensive or objectionable to the recipient or which causes the recipient discomfort or humiliation, or which interferes with the recipient’s performance constitutes sexual harassment and should be reported.

**TRANSCRIPT OF RECORD**

The Admissions and Records Office prepares and permanently retains a record of each student’s academic work. The transcript reflects all academic work attempted at Cypress College. It lists chronologically the courses, units, grades, grade points, cumulative grade point average, total units and other relevant academic data.

The normal processing time for transcripts is within 7 – 14 working days. Forms for requesting transcripts may be downloaded from our website (www.CypressCollege.edu) and are available in the Admissions and Records Office. Transcript requests may be submitted in person or mailed. Mail requests must include the student’s current and previous names, date of birth, social security number, approximate dates of attendance, number of copies needed, a complete address where the transcript is to be sent, and the student’s full signature. Instructions for special handling should be included. Send requests to Cypress College, Admissions and Records/Transcripts, 9200 Valley View St., Cypress CA 90630. Requests with incomplete information may not be processed.

Students are entitled to two (2) copies of their transcripts without cost. Subsequent copies are $3.00 per copy. (Note: Fee is subject to change at any time.) On Demand transcripts can be obtained for an additional $10.00.

Transcript requests must include full payment to be processed. Only checks or money orders are accepted and should be made payable to Cypress College. Cash payments may be made at the Admissions and Records Office but are not recommended to be sent through the mail. Requests will not be processed if the student has holds or outstanding financial obligations to the college.

Cypress College provides students the capability of sending transcripts electronically to other California colleges and universities. This web-based exchange system is secure and provides instantaneous delivery versus that of postal mail. Access the Main Menu in myGateway/Webstar for more information and the list of the participating institutions that can be sent an electronic transcript.

**VERIFICATION OF STUDENT STATUS**

Beginning Fall 2006, Cypress College authorized the National Student Clearinghouse (NSC) to provide degree and enrollment verifications on behalf of the College. NSC provides free, self-service enrollment certificates to students and adheres to the privacy mandates of FERPA (Family Education Rights and Privacy Act). To conveniently serve the student population, NSC is available 24 hours a day, 7 days a week.

Students can request NSC enrollment verification certificates ten business days after the beginning of a term. Access NSC by logging into myGateway. Click on Student Records and select Cypress College Enrollment Verification via National Student Clearinghouse. Enter the information requested.

**WITHDRAWAL**

It is recognized that, on occasion, students’ circumstances might force them to withdraw from a class prior to its completion. It is the student’s responsibility to initiate withdrawal procedures. Failure to withdraw officially from a class can result in a grade of “F” or “NP” (formerly “NC”) being assigned. Effective May 2009, many of the processes for course withdrawal have changed for California Community Colleges. In order to comply with the recent revisions of Title 5, students are advised to see an academic counselor prior to withdrawing from a course.

For the purpose of this policy, a “W” indicates that the student has withdrawn from a course without affecting the student’s grade point average. A “W” is given, therefore, under the following conditions and in the manner prescribed below:

**Semester Courses**

First Three Weeks of the Semester
Student or instructor may initiate a withdrawal. No notation shall be made on the student’s academic record.

Fourth Week through Fourteenth Week
The student or instructor may initiate a withdrawal. A “W” shall be recorded on the student’s academic record.

Remainder of Course
The student may no longer withdraw from college after the 14th week. The academic record of the student shall reflect a symbol of grade other than “W”. Under extenuating circumstances, a “W” may be granted after the 14th week if the student files a Petition for Exception that is approved by the Office of Admissions and Records.

**Short Courses**

Until the Day Prior to the First Census (the first census is one-fifth of the way through the course)
The student or instructor may initiate a withdrawal. No notation shall be made on the student’s academic record. Contact the Admissions and Records Office or see the deadlines printed under the CRN in the class schedule.
Online Courses
Online courses allow students to attend class and complete the majority of course requirements using a computer connected to the Internet. Some online courses are taught entirely online while others have required in-person meetings for orientations and/or exams. Online students interact with instructors and other students in person or by using a variety of technologies suited for distance education.

Hybrid Courses
Hybrid courses combine online and in-person instruction. Hybrid students meet regularly in-person and online. Meeting dates and times can be found in the current Schedule of Classes.

Course Offerings
The Cypress College Class Schedule includes detailed information regarding the distance education courses being offered each academic term, including prerequisites, fees, or other program requirements.

To enroll in a distance education course, students must follow the standard campus registration procedures for any Cypress College course.

Visit the Distance Education Program web site for answers to Asked Questions (FAQ), specific hardware and software requirements, tips for student's success and more: http://www.cypress-college.eu/academics/DistanceEducation

Instructional Support Services

Distance Education Program
Distance education is college instruction in which the instructor and student are separated by distance and with the assistance of communication technology. These courses provide the same quality of Cypress College instruction, teach the same material, are transferable to most four-year baccalaureate institutions, and require the same fees as our traditional in-person classes.

To take a distance education course, students need access to a computer with an internet connection and have a functioning email address. Distance education students must, at a minimum, be able to:

- Send and receive email with attachments
- Receive private email with attachments (no shared email accounts)
- Use a word processing program
- Save documents
- Navigate and search the Internet
- Install new software applications

From the First Census Through the Withdrawal Date
The student or instructor may initiate a withdrawal up to the time three-fourths of the course has elapsed. A “W” shall be recorded on the student’s academic record. Contact the Admissions and Records Office or see the deadlines printed under the CRN in the class schedule for specific courses.

Remainder of the Course
A student may no longer withdraw from classes after the withdrawal date. The academic record of the student shall reflect a symbol grade other than “W.” Under extenuating circumstances, a “W” may be granted after the withdrawal date if the student files a Petition for Exception that is approved by the Office of Admissions and Records.

Weekend Seminars Until the Day Prior to the First Day of the Seminar
The student or instructor may initiate a withdrawal. No notation shall be made on the student’s academic record.

After the Seminar Begins
The instructor may drop, with a “W”, those students who do not attend the seminar. Those who do attend must receive a symbol or grade other than a “W”. Under extenuating circumstances, a “W” may be granted after the withdrawal date if the student files a Petition for Exception that is approved by the Office of Admissions and Records.

Summer Intersession Courses
First Week
Students are to check with the Admissions and Records Office for appropriate withdrawal dates or see the deadlines printed under the CRN in the class schedule.

Open-Entry Courses
As often as possible, open-entry courses shall be treated according to the regulations for semester courses. Contact the Admissions and Records Office for further information.

BUSINESS AND COMPUTER INFORMATION SYSTEMS LAB
The Business and Computer Information Systems Lab is equipped with business and office automation equipment and microcomputers with a wide range of business application software. The Business and Computer Information Systems Lab (B-202) is available for business students who are concurrently enrolled in courses that require the use of the lab for enhancing and developing business skills. Please refer to the Class Schedule for hours of operation.

NORMAL HOURS OF OPERATION:
MON - THU 9:00am - 9:00pm

ENGLISH AS A SECOND LANGUAGE PROGRAM
Cypress College offers special classes in English for students who are non-native speakers of English. The classes are designed to improve reading, writing, listening and speaking skills. Students will have an opportunity to better understand the U.S. culture. They will also learn how to take exams, write essays and do transfer-level college reading and writing assignments. Individualized lab assignments will further build language skills.
LIBRARY AND LEARNING RESOURCE CENTER
Visit our website at http://www.ccllrc.info

First Floor Instructional Support: Learning Resource Center (LRC)
The Learning Resource Center (LRC) offers students computer lab where they may access the Internet, software applications (such as word processing, spreadsheet, and presentation) and course-specific software assigned by their instructors (CD-ROM and online). Also available are flatbed scanners with accompanying photo-editing software. Students may also use a broad variety of academic support media placed in the LRC by instructors. Some assistance using computers and applications is provided. Electrical power, data and wireless connectivity is also available for students with personal laptop computers. Visit us on the web at http://lrc.ccllrc.info

NORMAL HOURS OF OPERATION:
MON - THU 8:00am - 9:00pm
FRI 8:00am - 5:00pm
SAT, SUN & HOLIDAYS CLOSED

Individual Tutoring is available in the LRC at no cost to CC students. To schedule an appointment with a tutor, call (714) 484-7183. Visit us on the web at http://tutors.ccllrc.info. Normal hours of operation vary depending on tutor availability.

TUTORS ARE AVAILABLE:
MON - THU 9:00am - 7:00pm
FRI 9:00am - 4:00pm
SAT, SUN & HOLIDAYS CLOSED

Math Learning Center Room 127 (MLC)
The MLC provides students assistance in solving problems and in understanding concepts in mathematics, chemistry and physics. Resources include an array of math solutions manuals and computer applications. Students receive assistance from math faculty or peer tutors on a first-come, first-served basis. For more information call (714) 484-7193 or visit us on the web at http://mlc.ccllrc.info

NORMAL HOURS OF OPERATION:
MON - THU 8:00am - 9:00pm
FRI 8:00am - 2:00pm
SAT, SUN & HOLIDAYS CLOSED

Second Floor Instructional Support: Library
Library Website: http://old.CypressCollege.edu/~library

Note: Remote access to the library catalog is available through the website. Remote access to the databases is available to currently enrolled Cypress College students.

The Library maintains a collection of approximately 68,000 books, periodical subscriptions as well as videos, CDs, DVDs, cassette tapes, maps, pamphlets, and several databases with selected full-text newspaper, magazine, and journal articles. Students may access the Internet, the library catalog, databases, the TILT academic research tutorial program, and the extensive full-text EBSCO Host periodical database.

Library Cards: A current student picture ID card is your library card. You must have your student ID card with you in order to check out materials or look at reserve/textbook materials. The textbook collection must be used in the library, but there are books, videos, DVDs, CDs, audio-cassettes, pamphlets and paperback books available for check-out.

Group Study Rooms: Eight group study rooms are available. See staff at the reference desk to make a reservation no more than 7 days and no less than 24 hours in advance. Reservations are made on a first-come, first-serve basis. Dry-erase markers to use in the study rooms are also available.

NORMAL HOURS OF OPERATION:
MON - THU 8:00am - 9:00pm
FRI 8:00am - 1:00pm
SAT, SUN & HOLIDAYS CLOSED

SUPPLEMENTAL INSTRUCTION
The Supplemental Instruction (SI) Program provides opportunities for students to voluntarily participate in study group sessions for difficult classes. Typically, these sessions are held immediately after the class and therefore, students wishing to utilize this program should keep their schedules free at those times. These study groups are organized and facilitated by SI Leaders who are students who have successfully completed the classes in which SI is being offered.

Students who participate in SI study sessions report increased understanding of concepts and improved study and test-taking skills. Data shows that those students who participate will earn a half to a full grade higher than those who do not participate.

For more information about SI, contact the Director of Academic Support Services at (714) 484-7322 or visit us on the web at http://si.ccllrc.info.
Special Programs

ALPHA GAMMA SIGMA HONOR SOCIETY

Alpha Gamma Sigma (AGS) is the California state wide community college Honor Society which, according to our constitution, has the purpose of fostering, promoting, maintaining, and recognizing scholarship. While being of service to AGS, the college and the community, members will be able to develop civil mindedness, and leadership characteristics which will be useful throughout their lives. Students will also be able to attend chapter events, on-campus activities, and regional and state conferences with students from other colleges.

The Greek Letters in our name were selected because they are the initials from Greek words that mean Excellence, Knowledge, and Wisdom. Sigma Psi is the Cypress College chapter. We not only acknowledge our members as outstanding scholars, but also as humanitarians who devote their time to help our campus and our community.

For more details visit www.CypressCollege.edu and click on Clubs/Programs for more information.

Eligibility requirements
To be eligible for membership in AGS you must meet either one of the following requirements:

1. Temporary Membership: You are a first semester college student and you are a life member of the California Scholarship Federation (CSF), or you graduated from high school with a cumulative GPA of 3.5 or higher.

2. Initial/Continuing Membership: You are a continuing college student who has completed at least 12 semester units with a cumulative GPA of 3.0 or higher.

EDUCATIONAL INTERPRETER TRAINING PROGRAM

The goal of the Educational Interpreter Training Program at Cypress College is to better prepare those serving this highly specialized segment of the broader sign language interpreting service spectrum.

With the large number of Deaf and Hard of Hearing (DHH) students educated in all levels of local schools and regional programs, educational interpreters and their services are in constant demand. All too often though, the supply of skilled professionals falls far below the number necessary to adequately meet the service needs.

In addition to our on-site and on-line classes, we began to offer video broadcast format classes in the Fall 2006 semester. We now serve both Cypress College and Offices of Education in and out of the state of California.

Cypress College is committed to meeting the needs of the educational interpreter through competent, professional, broad-based training and meaningful real-world support.

For further information, please contact Dennis M. Davino, LMFT, Special Projects Director for Teacher Preparation, Educational Interpreter Training, and Paraprofessional Certificate Programs at (714) 484-7186.

HONORS PROGRAM

The Cypress College Honors Program is designed to encourage talent and ability in highly motivated students as they begin their academic studies and prepare to transfer to a four-year college or university. Students who complete the Honors Program and meet all major transfer requirements will have priority consideration for admission to specific four-year institutions.

Classes are taught by faculty interested in enriching the students’ academic experience with special projects, readings and class activities. The Program provides a unique, seminar environment with close academic and social interaction with outstanding faculty and other highly motivated honors students. Guest speakers, cultural events and field trips enhance the challenging and creative learning experience.

The Transfer Alliances
Cypress College is a member of the Honors Transfer Council of California. This group has established transfer alliance agreements with four-year colleges and universities.

Honors Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 112HC</td>
<td>Honors Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 116HC</td>
<td>Honors Intro to Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 117HC</td>
<td>Honors Astronomy Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101HC</td>
<td>Honors General Biology</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 103HC</td>
<td>Honors Chem in a Changing World</td>
<td>3</td>
</tr>
<tr>
<td>COUN 135HC</td>
<td>Honors Leadership</td>
<td>3</td>
</tr>
<tr>
<td>COUN 160HC</td>
<td>Honors University Transition</td>
<td>1</td>
</tr>
<tr>
<td>ECON 100HC</td>
<td>Honors Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 105HC</td>
<td>Honors Principles of Economics</td>
<td>3</td>
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<tr>
<td>ENGL 100HC</td>
<td>Honors College Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 104HC</td>
<td>Honors Critical Analysis &amp; Lit</td>
<td>4</td>
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<tr>
<td>ENGL 125HC</td>
<td>Honors Film</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 230HC</td>
<td>Honors Thematic Topics</td>
<td>3</td>
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<tr>
<td>ENGL 231HC</td>
<td>Honors Fiction Topics</td>
<td>3</td>
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<tr>
<td>ENGL 234HC</td>
<td>Honors Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 100HC</td>
<td>Honors American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 100HC</td>
<td>Honors World Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 100HC</td>
<td>Honors Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>HIST 110HC</td>
<td>Honors West. Civilizations I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 111HC</td>
<td>Honors West. Civilizations II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 112HC</td>
<td>Honors World Civilizations I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 113HC</td>
<td>Honors World Civilizations II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 170HC</td>
<td>Honors History of the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 171HC</td>
<td>Honors History of the U.S.</td>
<td>1</td>
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<tr>
<td>INDS 120HC</td>
<td>Honors Theme Seminar</td>
<td>1</td>
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<tr>
<td>MUS 118HC</td>
<td>Honors Introduction to Opera</td>
<td>3</td>
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<tr>
<td>NURS 105HC</td>
<td>Honors Cardiopulmonary Nursing</td>
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<tr>
<td>PHIL 100HC</td>
<td>Honors Introduction to Philosophy</td>
<td>3</td>
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<tr>
<td>POSC 100HC</td>
<td>Honors U.S. Government</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101HC</td>
<td>Honors General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101HC</td>
<td>Honors Intro to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 101HC</td>
<td>Honors Elementary Spanish I</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 102HC</td>
<td>Honors Elementary Spanish II</td>
<td>5</td>
</tr>
<tr>
<td>SPCH 100HC</td>
<td>Honors Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 200HC</td>
<td>Honors Rhetoric of the City</td>
<td>3</td>
</tr>
<tr>
<td>THEA 102HC</td>
<td>Honors World Theater History</td>
<td>3</td>
</tr>
<tr>
<td>THEA 107HC</td>
<td>Honors American Ethnic Theater</td>
<td>3</td>
</tr>
</tbody>
</table>

Requirements for Entrance

- Minimum 3.25 GPA in high school course work or a minimum of 3.0 GPA in 6 units of college course work, verified by transcripts.
- Eligibility for ENGL 100 C.
- Completion of the Honors Transfer Program application.

To Continue in the Program

- Achieve grades of “C” or higher in all Honors classes.
- Maintain a minimum 3.0 GPA in all Cypress College course work.
- Complete a minimum of one Honors Course each semester.
To Complete the Program
- Complete six (6) Honors designated classes for a minimum eighteen (18) units.
- Complete COUN 160HC Honors College/University Transition and INDS 120HC Honors Theme Seminar.
- Complete the requirements necessary to be accepted by the transfer school in your major.
- Complete two extracurricular activities and a Service Learning component each semester.

Benefits for Students while Enrolled
- Increased Scholarship opportunities.
- Small classes with a seminar environment.
- Special counseling and advisement with the Honors Program Director and Honors Counselor.
- Library privileges at transfer colleges and universities.
- Invitation to special Honors Forums, seminars and social events.
- Honors Club Membership
- Membership opportunities with Alpha Gamma Sigma Honors Society.

Benefits of Completion of the Program
- Priority consideration for admission at the junior level to selected four-year colleges and universities.
- Special recognition at Commencement.
- Honors notation on the diploma and transcripts.

Applying to the Program
- Submit an application to the Honors Program Office. Applications are available in the Transfer Center or online at www.CypressCollege.edu/academics/specialprograms/honors
- Submit a current transcript and proof of eligibility for English 100 C.

For more information please contact:
Penny Gabourie, Honors Program Counselor
pgabourie@CypressCollege.edu
Kathryn Sonne, Honors Program Director
ksonne@CypressCollege.edu
Honors Program Office is located in the Transfer Center
Located in the Student Center
(714) 484-7452 www.CypressCollege.edu

INTERNATIONAL STUDENTS
Cypress College welcomes applications for its International Student Program. Our college is authorized by the United States Department of Homeland Security (DHS) as an institution of higher learning for non-immigrant F-1 visa students. One of the goals of the program is to provide positive educational opportunities for students in an effort to improve the global community. The staff offers assistance with academic advisement, registration into classes and orienting students to living in Southern California.

- F-1 students are required to pay a non-resident tuition and enrollment fee. This fee is determined by the Board of Trustees each year and is due at the time of registration.
- Only persons who qualify for F-1 student visas are eligible for admission.
- Deadlines for the acceptance of applications from international students are July 1 for the fall semester and December 1 for the spring semester.
- The fee for the necessary special handling and processing of the application package of non-resident F-1 students is $40.00.

- The F-1 visa student is required to complete a full-time program (12 units or more) each semester of attendance and maintain a 2.0 GPA.
- Enrollment of F-1 students is limited to a maximum of six semesters.

Criteria for acceptance of International Students:
1. The applicant must possess knowledge of the English language sufficient to result in a Test of English as a Foreign Language (TOEFL) score of 500 (written), 173 (computerized), or 61 (IBT, Internet-Based Test). Students already in the United States may take the Cypress College assessment test.

2. The applicant must offer evidence of a degree of academic achievement equivalent to that of an American high school education, twelve years of elementary and secondary school, or be at least 18 years of age. The student must submit a transcript of an official school record accompanied by a notarized English translation.

3. Applicant must offer evidence of financial responsibility.

4. F-1 visa applicants who have attended other American schools or colleges may be considered for admission provided the applicant meets Cypress College admission requirements and can show proof of a valid immigration status with the U.S. Citizenship and Immigration Services (USCIS).

5. After the completion of the above requirements, the applicant will be considered for admission and will be notified of his/her acceptance or non-acceptance. If accepted, the applicant will also be sent a SEVIS I-20 form and registration information.

- The F-1 visa student is held to the same scholastic requirements and to the same college rules and regulations as other students.

- F-1 visa students are required to purchase health insurance in the United States. Such insurance should include major medical coverage to protect the student against financial catastrophe. Students are required to provide proof of health insurance covering the full semester of current enrollment. Monthly or quarterly premiums are not acceptable.

- F-1 visa students will be recommended for a work permit only in accordance with the rules and regulations established by the U.S. Citizenship and Immigration Services (USCIS).

- F-1 visa students will not be accepted for admission into any program when applications by qualified U.S. citizens exceed space available.

F-2 Dependents
In accordance with U.S. Federal Code, the spouse and minor children accompanying an F-1 student are eligible for admission in F-2 visa status. The F-2 spouse or F-2 child may not engage in full time study and the F-2 spouse and F-2 child may only engage in study that is avocational or recreational in nature.
LEGACY PROGRAM: CELEBRATING THE BLACK EXPERIENCE

Established in 2000, the Cypress College Legacy Program is the first community college program in Orange County to concentrate on Black Studies. Set in a positive academic environment, students create a close bond with both peers and their professors as they participate in a variety of events both on and off campus. By offering interesting and rewarding curriculum that focuses on the Black experience, students that complete the program are prepared to transfer and excel in university level work. The program consists of three academic components and sponsors a number of extra-curricular activities designed to enhance the college experience for its members.

English – Legacy members take English 060 C, English 100 C and English 104 C. These classes work to improve students’ basic written language skills, enhance their research methods, and develop critical thinking. Legacy Program members will become more confident writers as they explore African American culture and literature.

Counseling – Counseling is a vital component of the program and to the success of its members. A counselor is available to students each semester. Students are required to work closely with their counselor to explore career options, develop an academic education plan, identify lifetime goals, and discuss personal concerns. Counseling 150 C is linked with English 060 C during the first semester of the program.

Ethnic Studies – While taking English 100 C and English 104 C, students will be concurrently enrolled in Ethnic Studies 129 C: Introduction to African-American Studies and Ethnic Studies 130 C: African-American History I. These classes “share” curriculum so that students will be able to take material they learn from both classes to improve their knowledge, appreciation and understanding of African American culture.

Events and Excursions – The Legacy Program sponsors a number of events and trips throughout the year that provide cultural enrichment for all students. Members visit museums, see plays and films, and attend cultural events that relate to the Black experience. Students also visit UC campuses and are exposed to the opportunities that await them as they prepare to transfer.

The Legacy Program is an excellent opportunity for students to learn about African American culture while at the same time developing the skills necessary to be a successful college student. Students completing the program earn 12 transferable to the UC system and 15 to the Cal State system. Contact Joseph Melodia at jmelodia@cypresscollege.edu or Renee Ssensalo at rssensalo@cypresscollege.edu for information on how to become a member of this special program.

PARAPROFESSIONAL PROGRAM

Paraprofessionals — sometimes known as para-educators, instructional assistants, educational assistants or teacher aides — are school employees who work under the direction of certified or licensed staff members to help provide instructional and other services to students and their families. Para means “along side of” and like their counterparts in the legal and medical fields (e.g. paralegals and paramedics), Paraprofessionals assist and support the work team in a variety of ways (Gerlach, 2002). In many districts Paraprofessionals live in the school neighborhood. They sometimes speak the language of the students and provide a special liaison to the community and culture. Educational Paraprofessionals assist in instruction and support under the guidance of the classroom teacher. They tutor children, supervise them in and outside of class, create projects and prepare other materials for instruction. Most Paraprofessionals work the typical school calendar of nine to ten months.

The need for Paraprofessionals in California has increased dramatically in California since AB 2042 became law. Now all Paraprofessionals working in Title I schools in California must possess a high school diploma (or GED), must pass a rigorous test created and validated by the district, and have two years of college-level units, or hold an Associate of Arts degree. This legislation applies to all Title I, bilingual, special education Paraprofessionals.

For further information, please contact Dennis M. Davino, LMFT, Special Projects Director for Teacher Preparation, Educational Interpreter Training, and Paraprofessional Certificate Programs at (714) 484-7186.

PUENTE PROGRAM

Puente (Spanish for “bridge”) is a national award-winning program that helps students reach their dreams of college success. For more than 25 years, the Puente Program has improved the college-going rate of tens of thousands of California’s educationally underrepresented students. Established in 1996 at Cypress College, the mission of the Puente Program is to increase the number of educationally disadvantaged students who enroll in four-year colleges and universities, earn college degrees, and return to the community as mentors and leaders to future generations. Co-sponsored by the University of California and the California Community Colleges, Puente is open to all students eligible for English 60.

Puente’s interdisciplinary approach combines writing, counseling, and mentoring in a two-semester program.

ENGLISH – Puente students take two consecutive writing classes, English 060 C and English 100 C, to improve their written language skills, enhance their research methods, and develop critical thinking while exploring Latino issues in a supportive and stimulating environment.

COUNSELING – Puente students take three consecutive counseling classes, Counseling 060 C, Counseling 140 C, and Counseling 160 C, to improve their study skills, explore career options, develop an academic educational plan, and identify lifetime goals.

MENTORING – Puente students are matched with a Mentor from the business or professional community who shares her/his personal, academic, and career experiences to provide a window into “real life” work environments. Puente students also work with Peer Mentors, Puente Program graduates, who offer tutoring, guidance, support, and encouragement.

SPECIAL ACTIVITIES – Puente students participate in a number of events on and off-campus, including dinners, a graduation banquet, and guest speakers; field trips to the theater, museums, and bookstores; tours of universities and botanical gardens, and student-organized beach bonfires. These special activities are designed to enrich students’ educational, cultural, and social opportunities.

For more information on joining this award-winning program, please contact Dr. Randa B. Wahbe, Puente English Instructor at rwahbe@CypressCollege.edu or Dr. Therese Mosqueda-Ponce, Puente Counselor at (714) 484-7180.
SERVICE LEARNING

Service Learning is a teaching method that promotes student learning through active participation in meaningful and planned service experience in the community that are directly related to the course content. Through reflective activities, students enhance their understanding of course content, general knowledge, sense of civic responsibility, self-awareness and commitment to the community.

• Incorporate community service into your general education courses
• Apply course skills in a realistic environment
• Explore career options in a course setting
• Increase civic awareness of the community
• Experience a hands-on teaching method
• Strengthen the ethic of service
• Transfer service learning hours to a four year institution

For more information please contact:
Kathryn Sonne, Service Learning Director
ksonne@CypressCollege.edu
Service Learning Office is located in the Transfer Center
Located in the Student Center
(714) 484-7452  www.CypressCollege.edu

SPECIAL ADMIT PROGRAM

The Special Admit Program is intended for K-12 students who wish to enroll part time in advanced scholastic or vocational classes while concurrently enrolled at another school.

To be eligible for the Special Admit Program during the Summer, Fall or Spring semesters, students must complete the Special Admit Form obtaining required recommendations from the principal with parental or guardian permission and approval from a Cypress College counselor. In certain circumstances the signature of a division dean and the college president is required.

Special Admit Students are required to meet all college admission requirements, attend assessment/orientation and meet course prerequisites. Special approval is required for full time enrollment, persons under age 18 who are/are not enrolled in school and home school students. Enrollment into specific courses where content is deemed not appropriate for minors by the department may also require special approval. Students on F-1 or F-2 visas are not eligible to enroll as Special Admit Students.

Enrollment fees are waived for California resident Special Admit Students in grades 9-12 who are enrolled in .5-11 units. Per Education Code 76300 Special Admit Students registered in more than 11 units per semester are required to pay enrollment fees for all enrolled units. Special Admit Students who are in grades K-8 are required to pay the enrollment fees for all enrolled units. Students who do not pay the required fees may be dropped from courses for non payment. All Special Admit Students are responsible for all other college fees including lab, health, parking, books, materials and other required fees.

Courses taken by a Special Admit Student are recorded on the student's permanent record as college credit in the same manner as regularly enrolled college students. Credit may be given at the high school and may meet a graduation requirement; however, students should first consult with the high school counselor. Special Admit Students must adhere to all college policies on admission, registration, course requirements, attendance, Student Code of Conduct, and all other applicable policies and procedures.

Students wishing to enroll under the Special Admit Program can download the Special Admit Recommendation forms from the college website or obtain them from the Admissions and Records Office. The Special Admit Recommendation Form is valid only for the current semester. A new Special Admit Form must be submitted for enrollment in subsequent semesters. Students must also file the online College Application for Admission by accessing the college website and applying on CCCApply.

All student records are protected under the Family Educational Rights and Privacy Act (FERPA). No one (including parents and high school officials) may access confidential information without the student's written consent.

STUDY ABROAD PROGRAM

The Study Abroad Program provides students the opportunity to enrich their educational experience by studying abroad for one semester or for a shorter period of time, depending on course offerings, while earning Cypress College units. The program is designed not only to enrich course content by their location in the country where they are offered, but also to provide students with a multi-cultural experience by living in a society and environment different from that of the United States. Cypress College is associated with the College Consortium for International Education and may offer programs jointly with other California Community Colleges, thus expanding the students’ opportunities for experiences abroad.

Classes offered will be Cypress or Fullerton College courses, often taught by a Cypress College instructor, ensuring complete transferability to other United States colleges. There is an application process for interested students, with prerequisites, interviews, and the final selection. Interested students may contact the Fine Arts Division. For further information, call (714) 484-7080.

TEACHER PREPARATION PROGRAM

Program Code: 1T07860

The Teacher Preparation Program at Cypress College is a comprehensive student services program that provides academic support, specialized counseling, and outreach to students who are interested in pursuing a career in teaching. The primary purpose of the program is to provide Cypress College students with a clearinghouse of information and resources to help them become teachers. The program also provides early fieldwork experience in an educational setting, as well as opportunities to serve in the “Educational Ambassadors” program. The program offers special classes called Teacher Preparation Classes. These classes are designated with an apple in the Class Schedule. These classes are designed to enhance the future teachers understanding by providing a variety of different experiences in the classroom related to the field of Education.
TEACHING CREDENTIAL PREPARATION
There are several types of credentials offered by the state of California that students can receive. Students interested in teaching at the elementary school level will be obtaining a Multiple Subject Teaching Credential. The students interested in teaching at the middle school or high school level will earn a Single Subject Teaching Credential. Most California Teaching Credentials take five years to complete on a full-time basis. The required lower division courses may be completed at Cypress College. For more information, log onto the California Commission on Teaching Credentialing website at: www.ctc.ca.gov.

CALIFORNIA BASIC EDUCATIONAL SKILLS TEST (CBEST)
The CBEST verifies proficiency in reading, mathematics, and writing. Passing the CBEST is a requirement for obtaining a teaching credential issued by the California Commission of Teacher Credentialing and is required prior to student teaching. It is strongly recommended that students seeking a teaching credential take the CBEST after completing category A and B4 in the CSU/GE Requirement or Area 1 and Area 2 in the IGETC/GE Requirements. CBEST review classes are offered periodically throughout the year. Check the Class Schedule for specific dates. Students should pass the CBEST before leaving Cypress College. For more information about the CBEST exam, log onto www.cbest.nesinc.com.

CALIFORNIA SUBJECT EXAMINATIONS FOR TEACHERS (CSET)
All applicants for an elementary teaching credential must prove they are knowledgeable and competent in the subject area(s) they will be licensed to teach. For the middle or high school teacher, subject matter competence focuses on a particular subject such as, English or Math. The secondary teaching credential does not require the CSET as long as the student has an “approved program” and majors in the same subject of their credential. For the elementary teacher, subject matter competence must be demonstrated for all subjects relevant to the elementary classroom through the CSET exam. The exam is divided into subtests (most exams have three subtests) and the examinee has five hours to complete it. Passing the CSET is required for those students who pursue the multiple subject credential. For further information, visit the CSET website at: www.cset.nesinc.com.

CSULB (ITEP) ELEMENTARY PROGRAM & CSUF (STEP) ELEMENTARY PROGRAM
The Teacher Preparation Program curriculum fulfills all the lower division requirements for the CSULB (ITEP) and CSUF (STEP) Integrated Teacher Education Programs. Upon completion of the integrated program, a student will meet requirements for both a B.A. in Liberal Studies and preliminary multiple subject teaching credential for teaching grades K through 8th, without having to enroll in a year-long credential program. Applications and further information are available in the Teacher Preparation Program Office in the Department of Social Sciences.

MULTIPLE SUBJECT TEACHING CREDENTIAL
A Multiple Subject Teaching Credential authorizes the holder to teach in a “self-contained” classroom, meaning that one teacher teaches all subjects to the same students. A student will earn a Bachelor’s degree, preferably in Liberal Studies or Child Development (but not exclusively), pass the California Basic Education Skills Test (CBEST), complete a multiple subject teacher credential program, pass a U.S. Constitution class, pass the California Subject Examination (CSET), pass the Reading Instruction Competency Assessment (RICA), and clear a Character and Identification Clearance. All of the California State Universities now have a statewide agreement that they will all use the same 45 units of common core for all Integrated Teacher Preparation Programs in the State of California.

SINGLE SUBJECT TEACHING CREDENTIAL
A Single Subject Teaching Credential authorizes the holder to teach a particular subject at the middle school or high school level. Specific Single Subjects are: Art, Business, English, Health Science, Home Economics, Industrial & Technology Education, Language (other than English), Math, Music, Physical Education, Biological Sciences, Chemistry, Geosciences, Physics, and Social Science. A student will need to earn a Bachelor’s degree (preferably in the subject taught), pass the California Basic Education Skills Test (CBEST), complete a teaching credential program, pass a U.S. Constitution class, pass the Reading Instruction Competency Assessment (RICA), and obtain a Character and Identification Clearance.

EDUCATION SPECIALIST CREDENTIAL (Special Education)
The person holding this credential may work with elementary, middle school, or high school students. An Education Specialist Credential offers the following specializations: Mild to Moderate Disabilities, Moderate to Severe Disabilities, Visual Impairments, Deaf and Hard-of-Hearing, Physical and Health Impairments, and Early Childhood Special Education. A student will need to earn a Bachelor’s degree, pass the California Basic Education Skills Test (CBEST), complete a teaching credentialing program, pass a U.S. Constitution class, pass the California Subject Examination (CSET), pass the Reading Instruction Competency Assessment (RICA), and obtain a Character and Identification Clearance.

INFORMATION
For specific academic advisement at Cypress College, see your Teacher Preparation Counselor, Velia Lawson ((714) 484-7015), or Dennis Davino (Special Projects Director of Teacher Preparation) at (714) 484-7186. The Teacher Preparation Office has a list of all the Cypress Classes you will need to take for transfer to a CSU or other University. The Cypress Teacher Preparation website is: www.CypressCollege.edu/tpp/.

** Students with a criminal record are strongly recommended to see the Teacher Preparation Coordinator to find out their eligibility in the program.

NOTE: Students interested in Teaching should use the program code to indicate their area of interest for the Liberal Arts degree.
THE UNIVERSITY TRANSFER ACHIEVEMENT PROGRAM (UTAP)
The Cypress College University Transfer Achievement Program empowers students to achieve their academic goals. It is designed to assist students to transition successfully from high school to community college and to transfer to four-year colleges and universities. UTAP has two components:

• The Freshman Experience Learning Community links classes around a common theme or concept. Student enroll and receive grades in the separate courses but have assignments and activities that are shared between the classes. This approach provides unique education opportunities that enhance student success. The learning community also offers students additional support by integrating campus resources, such as tutoring and student mentoring, into the program. Because the program involves shared classes and activities, UTAP students forge strong friendships and have fun while learning.

To learn more about the Freshman Experience Learning Community Program, contact Mary Forman, UTAP faculty, at (714) 484-7156 or visit the UTAP office in BUS-102. Email: mforman@CypressCollege.edu.

• The Student Mentoring Program offers students two valuable learning opportunities. First-time freshmen will be matched with a student mentor who assists them with their transition into college. More seasoned students can volunteer to be student mentors to develop their leadership skills and to give back to the campus community.

To learn more about the Student Mentoring Program, contact Art Goldman, Student Mentoring Coordinator, at (714) 484-7093 or visit the UTAP office in the Student Center. Email: agoldman@CypressCollege.edu.

The UTAP Programs are funded by the Title V Hispanic-Serving Institutions Grant.

For more information please contact:
Penny Gabourie, UTAP Transfer Coordinator
pgabourie@CypressCollege.edu
The UTAP Office is located in the Transfer Center
Student Center, (714) 484-7129

UTAP is funded by a Title V Developing Hispanic Serving Institutions Program grant.

Student Support Services

The hours listed here are the normal hours of operation for the various offices for the Fall and Spring semesters. The Summer hours may be different (consult the Summer Class Schedule) and all hours are subject to change.

ADMISSIONS AND RECORDS
Admissions and Records is the first contact students will generally have with Cypress College. The Office provides clear and concise information to all members of the community, and admits and registers students in a timely and proficient manner. The Office provides supportive contacts with students, faculty and the administration by maintaining and retrieving student records. The Admissions and Records Office serves as the final evaluator of all certificate and graduation applications, distributes student records (including grades and transcripts) and certifies and reports attendance data to appropriate agencies.

The Admissions and Records Office is located on the first floor of the Student Center. For information, call (714) 484-7346.

NORMAL HOURS OF OPERATION:
MON - THU 8:00am - 7:00pm
FRI 8:00am - 5:00pm

ADULT RE-ENTRY PROGRAM
The Adult Re-entry Program recognizes that learning is a lifelong process and is dedicated to meeting the needs of “non-traditional” students. Our Program provides a combination of services to explore career, academic and success issues as you progress on your educational path. Let us help you discover the many opportunities, services and options available. The Program offers counseling, classes, workshops, resources and referrals. The Adult Re-entry Program is located in the Career Planning Center on the second floor of the Student Center. For information call (714) 484-7120 or visit our website at:

CypressCollege.edu/services/counseling/adultreentryprogram.aspx

NORMAL HOURS OF OPERATION:
MON - THU 8:00am - 6:00pm
FRI 8:00am - 12:00pm

ARTICULATION STATEMENT
Articulation agreements define how courses will transfer from one institution to another. Cypress College maintains major and/or course-to-course articulation agreements with most public universities and many independent colleges and universities in the state of California. The agreements with the public institutions are listed on www.assist.org which is the official repository for articulation in the state. Many independent institutions have articulation information available on their websites. In addition, agreements with public and independent institutions are located in the Transfer Center. For more information call (714) 484-7129.
ASSESSMENT CENTER
The Assessment Center provides a variety of services to determine skill levels in grammar, reading, and mathematics. The Center is one of the main components of matriculation services offered to each student. The purpose is to place students in courses which match the students’ skills, needs, and goals with college courses, programs and services.

Testing available on a walk-in basis. The Assessment Center is located on the second floor of the Student Center. For information call (714) 484-7233.

NORMAL HOURS OF OPERATION:
MON - THU 8:30am - 5:00pm
FRI 8:30am - 12:00pm

BOOKSTORE
All textbooks and supplies will be available for purchase in the bookstore at least two weeks before each semester or mid-semester class begins. The bookstore also offers special orders for those books that students cannot find in area stores.

The bookstore also offers supplementary educational books and supplies. The supply section offers imprinted Cypress College logo clothing, gifts, greeting cards, snacks, candy, beverages and general merchandise.

You may also purchase textbooks online at: www.cypresscollegebookstore.com.

NORMAL HOURS OF OPERATION:
MON - THU 7:45am - 6:00pm
FRI 7:45am - 12:00pm

For your convenience the bookstore is open the first Saturday at the start of the Fall and Spring Semesters. Hours for the Summer session and holidays will be posted outside the bookstore as necessary. For additional information call (714) 484-7336.

BOOK BUYBACK
Students may sell their textbooks and certain workbooks back to the bookstore, or wholesale buyer, during the first three days of classes and during Fall/Spring Final Exams, and the first two days of mid-semester classes.

NORMAL BUYBACK HOURS:
MON - THU 8:30am - 5:00pm
FRI 8:30am - 12:00pm

BURSAR
The Bursar’s Office processes registration payments and registration refunds, accepts deposits and processes requests for expenditures for a variety of areas on campus including Associated Students and all campus clubs, and monitors campus fundraising activities. This office is also responsible for paycheck disbursement and disbursement of scholarship funds. The Bursar’s Office is located on the first floor of the Student Center. For information, call (714) 484-7317.

NORMAL HOURS OF OPERATION:
MON - THU 8:00am - 5:00pm
FRI 8:00am - 12:00pm

CAMPUS SAFETY
The Cypress College Department of Campus Safety is committed to providing a safe campus environment for its students, faculty, and visitors. Campus Safety provides security and safety services to the campus. The department is responsible for crime prevention and personal safety. While this is our primary responsibility, personal safety and crime prevention does rest with each individual. Therefore, each of us must take personal responsibility for our own safety, as well as for the safety of those around us.

Cypress College is among the safest colleges in the country. We strive towards this goal by providing proactive patrol procedures, interaction with the community, and high visibility. We have also established a partnership with the Cypress Police Department. This combination has been successful in solving many of the problems and issues that have been presented to Cypress College members.

Campus Safety provides coverage to the campus 24 hours a day. Campus Safety is located in CCC-3 of Holder Street. The Business Office is open 8am-5pm; an outside box is available for deposit of citation appeals. Any criminal action or emergency must be reported to Campus Safety at (714) 484-7387.

Cypress College complies with the Standardized Emergency Management System (SEMS) and the National Incident Management System (NIMS) by conducting emergency exercises each semester.

Campus Safety provides escort service upon request at (714) 484-7387. Lost and found items are housed in the Campus Safety Office. Contact Campus Safety to receive information regarding items.

PARKING
Anyone who chooses to use the campus parking lots are required to pay a parking fee. A parking permit for the semester may be purchased through WebStar when student register, or in the Bursar’s Office or Admissions and Records Office after the semester begins. A one-day permit may be purchased at the seven permit machines located throughout the campus. The parking permit or one-day permit authorizes students to use any of the six lots open to student parking, as well as designated spots on Circle Drive, Fullerton College and the Anaheim Campus. The parking permit does not guarantee a parking space, but will permit parking in designated spaces. Students or visitors are not eligible to park in staff spaces.

A valid permit should be displayed in or on all vehicles at all times while in the designated parking spaces. Only persons with a valid state placard may park in disabled parking, student parking and limited parking zones. A valid student permit or day permit must be displayed along with the state placard when parking on campus.

PARKING ENFORCEMENT AND APPEALS
All campus parking regulations are enforced by the Cypress College Campus Safety Department. All traffic regulations are enforced by the Cypress Police Department.

Parking is strictly enforced and their is a two-week grace period at the beginning of the Fall and Spring semesters in order for students to obtain permits. Failure to display a parking permit will result in a parking citation issued by Campus Safety. Please contact Campus Safety regarding the appeal process by calling or visiting the Campus Safety website.
CAREER PLANNING CENTER
The Career Planning Center offers services designed to assist students and the general public to move forward with confidence, new skills and strategies for success. Visit the Career Planning Center to discover your career/major options, target your ideal career, clarify your preferred values, interests and activities, and perfect your job search. The Center offers one-on-one counseling to help with selecting a college major, occupational possibilities, career goal alternatives and all aspects of the career search process. Also available are career classes, career assessments, workshops, a research library, career-related software programs and much more. The Career Planning Center is located on the second floor of the Student Center. For information call (714) 484-7120 or visit our website at: www.CypressCollege.edu/services/cpc.

NORMAL HOURS OF OPERATION:
MON - THU 8:00am - 6:00pm
FRI 8:00am - 12:00pm

Counseling & Student Development
The College maintains a complete guidance service, including the orientation of new students to a successful college experience, counseling to meet the educational requirements for various careers, assistance in selection of courses of study, and individual guidance in matters of aptitude and personal adjustment as they are related to the student’s vocational and educational objectives.

Each student is assigned a counselor based on a major or area of interest. The counselor assists the student in planning a program of courses and is available to help in other matters affecting the student’s progress in college. Regular conferences may be scheduled during each semester to ensure that the student may gain the greatest possible benefit from the counseling service. Counselors can also be reached by e-mail during the semester at onlinecounselor@CypressCollege.edu or through their individual e-mail address listed in the Programs and Course Descriptions section of this catalog under Counseling and Student Development.

Special courses are offered to assist students in gaining the maximum benefit from their college experience. For example, all students enrolled in more than two classes must enroll in COUN 140 C or COUN 140HC during their first semester of attendance. This course is designed to further help orient students to college life and assist students in their educational and vocational planning. In addition, there are opportunities for students to take mini-guidance courses in Career and Life Planning, Academic and Life Success, Career Exploration, College/University Transition, and Academic Success and College Survival.

COUNSELING 140 C, 140HC
First-time students who are taking more than two classes or who plan to earn the Associate Degree, obtain a certificate, or transfer to a four-year college must include Educational Planning COUN 140 C, or COUN 140HC, in their schedule. This nine-hour course is taught by a counselor and the class is usually comprised of students with similar majors and/or interests. It is designed to assist the first-time college student with adjustments to college and meeting the educational demands of the college. A large component of the curriculum deals with planning the student’s program for the following semesters, depending upon whether the ultimate goal is to complete an Associate degree, a vocational certificate, or whether it is to transfer to a four-year college.

DISABLED STUDENTS PROGRAM & SERVICES (DSPS)
Services are offered to students with verified disabilities who are enrolled in the college. Disabilities may include: mobility impairments, visual impairments, hearing impairments, learning disabilities, head injuries and psychological impairments. Accommodations are tailored to the student’s individual needs with the goal of integrating the student into all facets of college life. DSPS is located in the Cypress College Complex on the first level, Room 100.

Typical services include:
- Complete assessment/evaluation for learning disabilities
- Academic, vocational and personal counseling
- Information and referral
- Registration assistance
- Test taking assistance
- Sign Language Interpreters
- Alternate media

Special classes:
- Adapted Physical Education
- College Orientation
- Wheelchair Basketball

Special equipment: (located in our High Tech Center)
- JAWS
- Braille printer
- CCTV
- Large screen computers

Please call for appointments.
Phone (714) 484-7104
TDD (714) 761-0961
FAX (714) 826-4042

NORMAL HOURS OF OPERATION:
MON, TUE, THU & FRI 8:00am - 5:00pm
WED 8:00am - 6:00pm
EXTENDED OPPORTUNITY PROGRAMS & SERVICES (EOPS)
The Extended Opportunity Programs and Services (EOPS) is a state and college funded program designed to assist students with economic, linguistic, and educational challenges (as defined by Title V) enroll and succeed in higher education. Comprehensive support services are provided to promote access to colleges, increase retention, and/or transfer to four-year universities and colleges.

These services include:
- Outreach, Recruitment and Specialized Orientation
- Enhanced Tutoring
- State-of-the-Art Computer Lab with Internet Access
- Specialized Counseling and Advisement
- Priority Registration
- Textbook Service
- Educational Supplies and Materials
- University Application Fee Waivers

COOPERATIVE AGENCIES RESOURCES FOR EDUCATION (CARE) PROGRAMS & SERVICES
The CARE (Cooperative Agencies Resources for Education) program provides additional services and grants to eligible EOPS single parents who are on public assistance.

Through CARE, eligible EOPS students receive supplemental educational support services, such as counseling and advisement; group support; peer networking; help from peer advisors; information and referrals to campus and community-based services or agencies; networking activities specifically designed for low-income single parents; and workshops, including self-esteem, parenting, study skills, and time management. Grants and allowances for child care, bus passes, textbooks and school supplies; transportation costs and other educational support; personal computer access; on-campus meal tickets are provided to enhance the retention, persistence, graduation and transfer rates of these highly motivated students.

If you are a single parent and interested in receiving benefits available to you, contact Kelly Grimes, CARE Coordinator at (714) 484-7237. The office is located in the Cypress College Complex on the second floor in room 201.

The EOPS and CARE staff are composed of dedicated professionals and student workers who are committed to seeing you succeed in college. Services are free of charge to all EOPS eligible Cypress College students.

To find out more about us visit our website at: http://cypresscollege.edu/services/eops/ come to our office located in the Cypress College Complex, 2nd floor or contact us at (714) 484-7368.

NORMAL HOURS OF OPERATION:
- MON - THU: 8:00am - 6:00pm
- FRI: 8:00am - 12:00pm

CalWORKS
The CalWORKS (California Work Opportunity and Responsibility to Kids) program provides services to Cypress College students who are receiving Temporary Aid to Needy Families (TANF).

Through the CalWORKS program, students may be eligible for paid work study opportunities; child care; academic guidance and counseling; ancillary funds for books and supplies; work activity progress report form completion; communication assistance with the Department of Social Services; workshops to enhance living skills; and networking activities.

Staff is not employed by the Social Services Agency (SSA). They are employed by the North Orange County Community College District as advocates of self-sufficiency through education for our students. If you are attending Cypress College and receiving TANF, please contact the CalWORKS office at (714) 484-7237. The office is located in the Cypress College Complex on the second floor in room 201.

FINANCIAL AID
The Financial Aid Office provides a number of important student services, which include:

- Providing information regarding the types of financial aid available;
- Helping collect and complete all necessary financial aid forms and documents; and providing guidance on student loans.

The Financial Aid Office currently administers state and federal grants, loans, and work-study. The most common types of financial aid that Cypress College students are eligible to receive include:

- Pell Grants — Federally funded grants for eligible undergraduate students (www.fafsa.ed.gov);
- Federal Supplemental Educational Opportunity Grants (FSEOG) — Federally funded grants for eligible undergraduate students;
- Cal Grants — State-funded award for eligible students from disadvantaged backgrounds or low-income families who have exceptionally high financial need, to provide them assistance with enrollment fees, living expenses, books, supplies, and transportation (www.csac.ca.gov);
- Board of Governors (BOGW) Enrollment Fee Waivers — State-funded waivers of enrollment fees for eligible students;
- Federal Work-Study (FWS) funds — Federally funded program that provides wages to eligible students for on-campus employment;
- Loans (subsidized and unsubsidized) — Federally administered, low-interest loans to eligible students.
WHO QUALIFIES FOR FINANCIAL AID?
To be eligible to receive most forms of financial aid, a student must show documented “financial need” as determined by the federal government. However, there are a number of other specific federal requirements that must also be met. To be eligible for federal financial aid, you must:

- Be a US citizen, a permanent resident, or an eligible non-citizen;
- Have a valid Social Security Number;
- Have a high school diploma or GED, or pass an approved, independently administered test (Ability-To-Benefit exam) that must be taken at Fullerton Community College
- Be enrolled in an eligible program at Cypress College;
- Make satisfactory academic progress in your course work.
- Have complied with US Selective Service requirements (www.sss.gov);
- Have not been convicted of the possession and/or sale of illegal drugs; and
- Not be in default on a student loan or owe a refund on any state or federal grant you may have received in the past.

Students who have been ineligible or disqualified to receive financial aid, should re-apply each year and are encouraged to come in and ask about other resources that may be available to them including filing an appeal for financial aid.

For Information:
Financial Aid Office
Cypress College Complex, 1st floor
9200 Valley View Street
Cypress, CA 90630
(714) 484-7114
www.CypressCollege.edu

NORMAL HOURS OF OPERATION:
MON - THU 8:00am - 6:00pm
FRI 8:00am - 12:00pm

FOOD SERVICES
There are two areas of food services available on campus during day and/or evening hours. At the Student Center location a variety of foods will be available such as pizza, grilled foods, Asian food and daily specials. Seating is both indoor and outdoor. At the “Bookstore Express” location a variety of sandwiches, salads, snack foods, and cold/hot drinks is available for grab ‘n’ go.

STUDENT CENTER CAMPUS DINING
NORMAL HOURS OF OPERATION:
MON - THU 7:45am - 7:30pm
FRI CLOSED

BOOKSTORE CONVENIENCE FOODS
NORMAL HOURS OF OPERATION:
MON - THU 7:45am - 8:00pm
FRI 7:45am - 5:00pm

FOUNDATION
The Cypress College Foundation supports the work of Cypress College by raising funds and distributing them through scholarships, loans, grants, and the funding of select college programs and projects. A non-profit, tax-exempt organization, the Cypress College Foundation raises its funds through the Americana Awards Banquet, one of the premiere events in North Orange County; the President’s Circle, composed of some of the very best friends and supporters of Cypress College; the Cypress College Foundation Golf Classic; and various other programs and activities, including planned giving. For more information contact the Foundation Office at (714) 484-7126.

NORMAL HOURS OF OPERATION:
MON - FRI 8:00am - 5:00pm

GUARDIAN SCHOLARS
Guardian Scholars is a program committed to supporting ambitious college-bound students exiting the foster care system. Program benefits include assistance in completing college entrance forms; Financial Aid application assistance, mentoring opportunities, friendship and support. Our program collaborates with Orangewood Children’s Foundation. Additional funding may be available to support transfer costs.

If you are an emancipated or former foster youth and interested in receiving benefits available to you, contact Kelly Grimes at (714) 484-7240. The office is located in the Cypress College Complex on the second floor in the EOPS Office.

HEALTH SERVICES
As a registered student at Cypress College you are eligible for basic health services at your center. The Student Health Services Center is an office responsible for the health and wellness of students on campus. Our goal is to promote physical and emotional wellness, prevent illness and injury, provide basic outpatient health services, and to educate students toward taking responsibility for their own health.

There is no charge to see the Physician, Nurse Practitioner, Psychologist, Counselor and/or Nurse. Nominal fees will be assessed for lab tests, immunizations, medications, and special exam procedures. A registered nurse and/or a family nurse practitioner are available at all times. Appointments are recommended to see the doctor, nurse practitioner and psychologist/counselor. Emergencies are seen immediately.

All students are covered by an insurance policy which provides coverage for accidents while on campus during required attendance and while using college sponsored transportation to and from college activities (private insurance is primary).

To make use of any of these health services or to get further information, contact the Health Center located on the first floor of Gymnasium II building by calling (714) 484-7361, or stop by the Center.

NORMAL HOURS OF OPERATION:
MON-THU 8:00am - 6:00pm
FRI 8:00am - 12:00pm
MATRICULATION
Matriculation is a set of services provided to all students as a means of ensuring their academic success. It is legally defined as an agreement between the college and its students. This legislation ensures that every community college student will be afforded the same opportunity for services and to achieve academic success. The college goal is to make the institution a place of easy access and success for students to achieve their educational goals and economic gain. The five components or services which create an easy step-by-step process to introduce Cypress College students to higher education are:

Admissions: The information contained in the college application becomes part of the student’s official record. This office registers students and records grades, program changes, graduation, and transfer requirements.

Assessment: The purpose is to gather as much information as needed on new students. Counselors review assessment scores, transcripts, current study skills, language skills, goals, majors, career aspirations, and the need for special services. Testing is necessary for a first time student if there are no previous records. Assessing student skills aids in making the best educational choices.

Orientation: Students new to Cypress College prior to registration are required to attend a one and one-half hour group orientation session. During this session the counselor will review the College Catalog, Class Schedule, services, programs, certificates, degrees, majors, general college procedures, and college regulations. The counselor will review with the students their test scores, previous transcripts, course prerequisites, and course selection. Online orientation is available at http://www.CypressCollege.edu/~counseling/orientation. After registration, Educational Planning COUN 140 C or 140HC is offered to assist the student in completing their individualized Student Education Plan.

Counseling/Advising: All students are encouraged to visit their counselor and confer with instructors periodically throughout the year. Counselors are also available through their e-mail address, located in the Programs and Course Descriptions section of this catalog under Counseling and Student Development. A Student Educational Plan should be on file in each student’s academic record after completion of 15 units. Faculty advising is available through instructors’ posted office hours.

Student Progress/Follow Up: Students who excel in their course work are placed on either the Dean’s Honor Roll or the President’s Honor Roll. Information regarding scholarship and Honors is available within this catalog. Students encountering difficulty in courses are referred to appropriate college services by counselors and instructors. Additional referrals are made to assist students with special needs.

Students may be exempt from the Matriculation services if they are a graduate from an accredited U.S. college or university with an Associate of Arts degree or higher; or matriculated at another College.

Student Rights
All matriculated students have the right to challenge or appeal any step in the matriculation process and may:

1. Enroll in any class where prerequisites are met.
2. Challenge course placement decision.
3. Request a waiver of prerequisites for a course, if it is offered, not validated, or if able to demonstrate previous knowledge.
4. File a complaint of discrimination if prerequisites are being applied in a prejudicial manner.

If you have questions regarding any aspect of these services, please contact the Matriculation Manager at (714) 484-7230.

PATRONS OF THE ARTS
The Cypress College Patrons of the Arts is a non-profit, tax-exempt organization that functions under the auspices of the Cypress College Foundation. It was founded in 1975 to encourage community participation in the college’s fine arts programs and exhibits, foster cultural, visual, and performing arts activities at the college, and to raise funds to provide scholarships to talented students in the fields of Art (including ACG – Art Computer Graphics), Dance, Journalism, Music, Photography, and Theater. Please contact the Cypress College Patrons of the Arts at patrons@cypresscollege.edu or (714) 484-7000 ext. 48203 for further information.

STUDENT HOUSING
Housing is not available on the college campus. Students interested in off-campus housing should contact the Student Activities Office for suggested quarters. A listing of available housing is located on a bulletin board in the Student Activities Center. For questions, call (714) 484-7198.

TRANSFER CENTER
The Transfer Center assists students interested in continuing their education at four-year institutions with an emphasis on reaching the historically underrepresented transfer students. The Transfer Center offers students opportunities to meet with representatives from four-year schools for advisement and to attend workshops and transfer fairs. The Transfer Center houses an extensive transfer resource library including college catalogs, articulation agreements, reference books, college videos, and computer programs for student use.

For more information, visit the Transfer Center on the second floor of the Student Center, or call (714) 484-7129.

NORMAL HOURS OF OPERATION:
MON - FRI 7:30am - 5:00pm
MON - THU 8:00am - 6:00pm
FRI 8:00am - 12:00pm
MON - FRI 7:30 am - 5:00 pm
MON - THU 8:00 am - 6:00 pm
FRI 8:00 am - 12:00 pm
**VETERANS AFFAIRS**

**VA Services**
Cypress College is approved as a degree-granting institution for the attendance of veterans under Title 38, United States Code. This includes the programs covered in Chapters 30, 31, 33, 35, 1606 and 1607. The College is also approved for the attendance of California veterans’ dependents under the State Fee Waiver Program.

**Military Credit**
Veterans who are receiving GI Bill benefits will be granted unit credit for successful completion of required active service. A copy of the DD214 will be required upon meeting with an academic counselor. Transfer credit to the CSU system will be limited to three (3) units in Area E of the CSU General Education Lower Division requirements. Military transfer credit to the UC system is not currently granted.

Veterans may receive unit credit for prior military service in other CSU General Education Lower Division requirement areas. Student veterans must provide a copy of their DD214, AART/SMART transcripts and transcripts from all other colleges and universities attended for counselor review. Credit for occupational certificates and associate degrees at Cypress College will be granted based on recommendations from the American Council on Education (ACE).

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**Campus Life**

**CAMPUS CLUBS**
Students are encouraged to broaden their horizons by participating in club activities at Cypress College. Clubs are organized to involve the student in specialized fields of interest or service to the college and community. The clubs and organizations at the college can be listed in four categories: academic achievement, cultural, special interest, and religious.

**MEETING TIMES**
The meeting times for all clubs can be obtained from the Office of Student Activities in the Student Center. The following is a complete list of Cypress’ campus clubs and organizations:

- Alpha Gamma Sigma (Honor Society)
- Anime Club
- Anthropology Club
- Aquarium Club
- Biology Club
- Black Student Union
- Campus Christians
- Charger Chronicle
- Court Reporting Club
- C.C. Flying Team (Alpha Eta Rho)
- C.C. Veteran’s Organization
- Chemistry Club
- Creative Arts Guild
- Cypress Nursing Student Association (CNSA)
- Dental Assisting Club
- Engineering and Physics Club
- Explorer’s Club
- Film Club
- Flight Attendants
- Forensics
- Friends of Diversity
- Future Business and Economics Club
- G.A.L.A.
- Global Association of Culture and Peace
- Honors Club
- Hospitality and Travel Club
- House on Campus
- Human Services
- Invisible Student Union
- Korean Christian Fellowship
- Korean Student Association
- Later-Day Saints Student Association
- Math Club
- M.E.Ch.A.
- Mortuary Science Club
- Muslim Student Association
- Native American Club
- Outreach Ministries
- Pharmacy Club
- Philosophy Club
- Political Science Club
- Pre-Med Club
- Progressive Students for Change
- Psychiatric Technology
- Psychology Circle
- Radiologic Technology
- Recording and Entertainment Club
- S.A.D.H.A. (Dental Hygiene)
- Society of Future Engineers
- Society of Physics Club
- Sociology on Demand
- Spanish Club
- Spirit Club (Pep)
- S.T.A.N.D.
- Travel Club
- UTAP Club
- Vietnamese Club
- Women’s Study Club

**ACADEMIC ACHIEVEMENT CLUBS**
Alpha Gamma Sigma and the Honors club are the college’s academic clubs. Their main goal is to increase and promote academic excellence among students. The clubs provide service to the school and hold fund-raising activities to earn money for scholarships. Sigma Psi is the campus chapter of Alpha Gamma Sigma and the Honors Program.

**CULTURAL CLUBS**
Cultural clubs provide students with an opportunity to experience other cultures as well as to meet students with similar backgrounds. In addition, they provide a link to the political and social events shaping the world of today.

**INTEREST CLUBS**
Interest clubs provide a place or event for students to share a common interest or a chance to experience something new.

**RELIGIOUS CLUBS**
Religious clubs promote a particular religion as well as provide a place for students to come together in their faith.

**DRESS CODE**
Students are expected to dress in good taste. Attending class or entering any campus building while barefooted or bare-chested is specifically prohibited.
INTERCOLLEGIATE ATHLETIC PROGRAM
The Cypress College Chargers are members of the Orange Empire Conference and are part of the California Community College Athletic Conference. The Chargers compete in the following sports: baseball, basketball, soccer, swimming, and tennis. Women's intercollegiate sports include: basketball, soccer, softball, swimming, tennis, volleyball, and water polo. The Chargers also compete in wheelchair basketball. Cypress students may participate in football, cross-country, track, and men's water polo at Fullerton College.

Athletic eligibility rules and regulations adopted by the conference and the California Commission on Athletics are rigidly enforced at Cypress College. In general, eligibility rules require an athlete be enrolled in 12 units or more at the time of competition. To compete a second season in a sport, an athlete must complete and pass 24 units with a 2.0 GPA between seasons of competition. These must be completed prior to the beginning of the second season of the sport. Transfers who have participated in athletics at another California community college must complete 12 units at Cypress College before becoming eligible. Since this is only a general guideline and athletic eligibility rules are rather complex, questions regarding eligibility should be referred to the athletic director for clarification.

INTER-CLUB COUNCIL (ICC)
The Inter-Club Council (ICC) is financed by the Associated Students of Cypress College and its chair is an elected, voting member of the Associated Student Council. The Inter-Club Council is composed of a representative from each of the recognized clubs on campus. Its function is to coordinate the activities of the various clubs and to provide an organized channel for club support of, or participation in, major campus events. For information regarding current clubs on campus, and/or the forming of new clubs, please stop by the Student Activities Center.

PUBLICATIONS
OFFICIAL STUDENT PUBLICATIONS
Student publications are approved by the college through authorization of the President of the college and the assignment of a faculty advisor. Such publications are eligible for distribution on campus. All student publications are expected to reflect good taste, be written and edited by students of the college, and conform to editorial policies established by the college. These editorial policies shall include authority of the faculty advisor to exercise the right to disapprove materials with provision for the right of the student appeal to persons designated by the college President. Students who violate this policy shall be subject to suspension and/or expulsion.

UNOFFICIAL PUBLICATIONS
Commercial publications may not be distributed or sold on the college campus without specific permission from the President. Non-commercial publications, student or non-student, not sponsored or approved by the college may be distributed on campus under regulations as established by the college. Such regulations may pertain to hours and places of distribution, littering, the orderly operation of the college, the outrage of public decency, and an identification of the persons and/or organizations sponsoring the material. Unofficial publications which do not meet the criteria listed are considered unauthorized and may not be distributed on campus.

STUDENT ACTIVITIES
The Student Activities Program at Cypress College is intended to achieve the following objectives:

- to provide opportunities for students in shared governance activities;
- to provide students with the opportunity to create and administer their own organizations;
- to provide a leadership development program for credit that will help students learn the practical application of leadership and organizational theory.

Student Activities is an integral part of college life, and all students are encouraged to take an active role in some phase of the student activities program.

Activities include campus clubs, concerts, special interest programming, community awareness and involvement, club rush, Senior Day, World Fest, and Welcome Back Week. The Associated Students Council participates on Campus and District Shared Governance committees to represent student interests.

NORMAL HOURS OF OPERATION:
MON - THU 8:00am - 5:00pm
FRI 8:00am - 12:00pm

STUDENT GRIEVANCES
PETITIONS AND APPEALS
1. ACADEMIC APPEALS: Inevitably, with as many interpersonal transactions as occur on a college campus, disagreements with instructors may occur. Should that be the case, a student may take the following procedures:

PROCEDURES
a. Discuss the matter with the staff member, preferably in private, and try to resolve the issue.

b. Consultation with your counselor may also be helpful. If the problem cannot be resolved at that level, the following due process procedures are available to the student.

c. Consultation with the Student Advocate at Associated Students may also be helpful. The Student Advocate is an elected member of the Student Government who can help the students to follow the procedures in presenting grievances.

d. Students in Vocational programs may need to see the department Coordinator/Director. Programs that deal with patient/client safety and accrediting agencies have additional policies located in their program handbooks/regulations.

e. Students who have not been able to resolve classroom problems through an interview with their instructors and the department Coordinator/Director may consult with the Division Dean.

f. If the problem is not resolved to the student's satisfaction the student may file an appeal with the Campus Petitions Committee. Petition forms are available from the division deans or from the Office of Instruction.

g. A student dissatisfied with the result of his/her appeal to the Campus Petitions Committee may appeal to the College President.
The A.S. Council plans, organizes, promotes and finances many activities for the campus. A.S. Council officers serve on campus committees and participate in the California State Student Senate to represent student interests concerning campus, district, and state-wide decisions affecting community college students. Campus clubs are part of Inter-Club Council (ICC) which is administered by the A.S. Council. For further information, contact the Associated Students at (714) 484-7198.

Administrative Procedures

The most current Administrative Procedures and Board Policies for the North Orange County Community College District can be found at http://www.nocccd.edu/Policies/PoliciesAndProcedures.htm#BoardPolicies.

NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT
NON-DISCRIMINATION STATEMENT

It is the policy of the North Orange County Community College District to provide an educational, employment, and business environment in which no person shall be unlawfully subjected to discrimination or sexual harassment, nor unlawfully denied full and equal access to the benefits of District programs or activities on the basis of ethnic group identification, national origin, religion, age, gender, race, color, ancestry, sexual orientation, marital status, or physical or mental disability as defined and prohibited by state and federal statutes. Any student who engages in unlawful discrimination or sexual harassment in violation of this policy will be subject to disciplinary action, which may include suspension or expulsion.

Students who believe they have been subjected to unlawful discrimination, including sexual harassment, or who seek information regarding the District’s Unlawful Discrimination Policy, should contact the Office of the District Director of Human Resources at (714) 808-4818.

The following person is designated by the North Orange County Community College District as the Responsible Officer/Section 504 and Title IX Coordinator for receiving and coordinating the investigation of all unlawful discrimination complaints filed pursuant to section 59328 of Title 5 of the California Code of Regulations, and for coordinating compliance with section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990, Title IX of the Education Amendments of 1992, and response to discrimination complaints related thereto:

Name: Jeffrey O. Horsley
Position: Vice Chancellor, Human Resources
Address: 1830 W. Romneya Drive
          Anaheim, CA 92801-1819
Telephone: (714) 808-4822
ADMINISTRATIVE PROCEDURES

VICTIMAS DEL ACOSO U HOSTIGAMIENTO SEXUAL

Aquellos estudiantes que sean víctimas de asalto sexual dentro del predio del Distrito o en algún sitio fuera del terreno o establecimiento universitario, bajo la responsabilidad del Distrito, o que busque información o ayuda con respecto a un asalto sexual, debe comunicarse con el Director de Servicios de Salubridad, llamando al teléfono: 714-484-7045, o con el Director de la Seguridad Pública del Terreno Universitario, llamando al 714-484-7455. Excepto como de alguna otra manera lo exija la ley, toda pregunta e información se mantendrá en la más estricta confidencialidad.

AFIRMACIÓN SOBRE NO DISCRIMINACIÓN

Las normas generales del North Orange County Community College District proveen un entorno educacional, laboral y comercial en el que ninguna persona es expuesta a la discriminación ni al acoso u hostigamiento sexual, como tampoco a ninguna vejación castigada por la ley, ni a negarle, contrario a la ley, acceso total y equitativo a los beneficios y actividades de los programas del Distrito, debido al grupo étnico al cual pertenece, nacionalidad de origen, religión, edad, género, raza, color, ancestros, inclinaciones sexuales, estado civil, o discapacidad física o mental, tal como lo definen y prohíben los estatutos estatales y federales. Todo estudiante que discrimine, acoso u hostigamiento ilegalmente a otra persona, en contravención de las normas generales, quedará sujeto a que se tomen medidas disciplinarias contra esa persona, lo cual puede incluir suspensión o expulsión de este centro educacional.

Todo estudiante que crea ha sido objeto de discriminación ilícita, incluyendo acoso u hostigamiento, o que desee obtener información con respecto a las Normas Generales del Distrito sobre Discriminación Ilicita (District’s Unlawful Discrimination Policy), debe comunicarse con la oficina del Director Distrital de Recursos Humanos (714) 808-4818.

La persona que mencionamos más adelante, ha sido designada por el North Orange County Community College District, como el Funcionario Responsable/Coordinador de la Sección 504/ Derecho IX, ante quien se debe presentar la información para coordinar la investigación de todas las quejas de discriminación ilegal interpuestas, conforme a lo estipulado en la sección 3932 de la Ley 5 de las Reglamentaciones del Código de California, y para coordinar el acatamiento de la Sección 504 del Decreto de Rehabilitación de 1973 y del Derecho II del Decreto 1990 que ampara a los Americanos con Discapacidades, Derecho IX de las enmiendas de la educación de 1992, y responder a las quejas por discriminación relacionada:

Nombre: Jeffrey O. Horsley
Posición: Vice Chancellor, Human Resources
Dirección: 1830 W. Romneya Drive
Anaheim, CA 92801-1819
Teléfono: (714) 808-4822

STUDENT RIGHT TO KNOW CAMPUS SECURITY ACT

In compliance with the Student Right-to-Know and Campus Security Act of 1990, it is the policy of the North Orange County Community College District and Cypress College to make available its completion and transfer rates to all current and prospective students. Beginning in Fall, 2004, all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a three-year period; their completion and transfer rates are listed below. These rates do not represent the success rates of the entire student population at Cypress College, nor do they account for student outcomes occurring after this three-year tracking period.

Based upon the cohort defined above, 24% attained a certificate, degree or became “transfer prepared” during a three-year period (fall, 2004, to spring, 2007). Students who are “transfer-prepared” have completed 56 transferable units with a GPA of 2.0 or better

Based upon the cohort defined above, 50% transferred to another postsecondary institution (CSU, UC, or another California Community College) prior to attaining a degree, certificate or becoming “transfer prepared” during a five-semester period (spring, 2005 to spring, 2007).

More detailed information related to the reporting of criminal actions which have occurred on campus may be obtained from the President’s Office, Public Safety, Admissions and Records, Financial Aid, Bursar’s Office, Student Activities, Library and the website.

STUDENT RIGHTS UNDER FERPA FOR POSTSECONDARY INSTITUTIONS

FERPA at a Glance

The Family Educational Rights and Privacy Act

What is FERPA?
The Family Educational Rights and Privacy Act of 1974, as amended, sets forth requirements regarding the privacy of student records. FERPA governs: (1) release of these records (known as education records) maintained by an educational institution and (2) access to these records. This law applies to K-12 as well as postsecondary education.

Who must comply with FERPA?
Any educational institution (school or other entity that provides educational services and is attended by students) and educational agency (entity that administers schools directly linked to it) that receives funds under any program administered by the U.S. Secretary of Education.

What does FERPA require for educational institutions to be in compliance?

- Notify students annually. Schools must notify students of their rights on an annual basis. There is no specific method that schools must use to notify students; it is up the institution. Notice must take a form that is “reasonably likely” to notify students. Recommended and most frequently used ways include:
  - Student bulletin, handbook, or catalog
  - School or local newspaper
  - Student registration packet
- Protect students’ rights to inspect and review their education records.
- Protect students’ rights to request to amend their education records.
- Protect students’ rights to limit disclosure of personally identifiable information contained in education records.
- Ensure that third parties do not redisclose personally identifiable information (except under a few circumstances).
- Keep records of requests for and disclosures of student education records in limited situations.

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Who has FERPA rights at the postsecondary level?
A student “in attendance” (regardless of age) and former students.
- Student applies to all students attending — including continuing education students, students auditing a class, distance education students, and high school students enrolled in college.
- In attendance applies to and is determined by the institution. If the institution has not defined when a student is “in attendance” that date becomes the day the student first attends a class at the institution.

What rights does FERPA provide for students?
- Right to inspect and review their education records.
- Right to request to amend their education records.
- Right to limit disclosure of some “personally identifiable information” (information that would directly identify the student or make the student’s identity easily traceable) known as directory information.

What is considered Directory Information?
Student’s name, major field of study, participation in officially recognized activities and sports, including weight and height of athletic team members, dates of attendance, degrees and awards received by the student, including honors, scholarship awards, athletic awards and Dean’s List recognition, the most recent previous public or private school attended by the student, and any other information authorized in writing by the student. (NOCCCD BP 5040 effective April 2009).

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

(1) The right to inspect and review the student’s education records within 45 days of the day the College receives a request for access.

Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The College official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the College official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

(2) The right to request the amendment of the student’s education record that the student believes is inaccurate.

Students may ask the College to amend a record that they believe is inaccurate. They should write the College official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate.

If the College decides not to amend the record as requested by the student, the College will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

(3) The right to consent to disclosures of personally identifiable information contained in the student’s education records, except to the extent that FERPA authorizes disclosure without consent.

(4) The right to file a complaint with the U.S. Department of Education concerning alleged failures by the College to comply with the requirements of FERPA. The name and address of the Office that administers FERPA are:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-4605

Programs of Study
Cypress College offers three basic program types:

ASSOCIATE DEGREE
Associate degrees are commonly conferred by community colleges. This degree is awarded upon a student’s satisfactory completion of a program of study. Students who have maintained continuous enrollment have the option of completing the Associate Degree requirement in effect at the time they initially enrolled or any subsequent catalog up to and including the last semester of attendance. The Associate Degree is one of two types, the Associate in Arts or Associate in Science. The distinction between the degrees lies in the majors. To earn an Associate Degree students must complete:

- Any required major course requirements with a minimum grade of “C” - At least 50% of the major course work must be completed at Cypress College. The Liberal Arts Areas of Emphasis in Arts & Humanities, Human Communication, Social & Behavioral Sciences, and Math & Science are excluded from the 50% policy.

- 25 units of Associate Degree General Education Graduation Requirements;

- Reading Proficiency requirement;

- At least one 3 unit course in cultural diversity:

- Any elective courses to complete a minimum of 60 units with an overall Grade Point Average of 2.0
**CERTIFICATE PROGRAMS**

A program certificate is a verification of competency designed to make the student proficient and employable in a specific occupational skill. The certificate is awarded independently of the Associate Degree. Students who have maintained continuous enrollment have the option of completing the certificate requirements in effect at the time they initially enrolled or any subsequent catalog up to and including the last semester of attendance. At least 50% of all course work required for a Cypress College Certificate must be completed at Cypress. All required courses must be completed with a minimum grade of “C”.

Students wishing to use courses from another institution to meet Cypress’ requirements should meet with a counselor to review the necessary petitioning procedure. Program certificates will be noted on student transcripts. For a list of approved certificates contact the appropriate department.

**TRANSFER PROGRAMS**

Transfer programs include course work in an academic area, general education requirements, and elective work for transfer to a four-year baccalaureate institution. Transfer programs are designed to parallel the courses offered for freshmen and sophomores at other colleges and universities. In most cases, baccalaureate institutions prefer community college students to complete the lower division general education requirements and at least 60 or more transferable semester units. Generally, no more than 70 semester units earned at California community colleges will be applied toward a baccalaureate degree.

**TRANSFER CREDIT — BACCALAUREATE DEGREES**

Cypress College certifies that the following classes listed (by instructional divisions) are baccalaureate-level classes and are transferable to any campus of the California State University system for credit toward its baccalaureate degrees:

**Business and Computer Information Systems** - All classes numbered 100 C through 299 C.

**Counseling and Guidance** - All classes numbered 100 C through 299 C.

**Fine Arts** - All classes numbered 100 C through 299 C.

**Health Science** - All classes numbered 100 C through 299 C.

**Language Arts** - All classes numbered 100 C through 299 C.

**Physical Education** - All classes numbered 100 C through 299 C.

**Science/Engineering/Mathematics** - All classes numbered 100 C through 299 C; Basic Electricity 051 C is transferable only for Industrial Arts Majors.

**Social Science** - All classes numbered 100 C through 299 C.

**Vocational Technical Education** - All classes numbered 100 C through 299 C; Aviation 050 C and Photography 050 C.

Note: All Honors classes offered at Cypress College are transferable to any campus of the California State University system.
GRADUATION/EDUCATIONAL OPTIONS

HOW TO EARN AN ASSOCIATE DEGREE

Graduation Requirements
For this catalog year.

Graduation requirements for the Associate Degree are prescribed by the California Community Colleges Board of Governors, Title 5 and the North Orange County Community College District Board of Trustees. An Associate Degree may be earned upon satisfactory completion of all of the following:

1. Scholarship Requirement
   A cumulative grade-point average of 2.00 (“C”) in all coursework attempted.

   Note: See Catalog Rights.

2. Residence Requirement
   a. A minimum of 12 degree applicable units must be completed at Cypress College.
   b. The student must be in attendance during the academic year in which the degree is earned. Exception to this requirement is by petition only.

3. Major/Area of Emphasis Requirement
   A student must achieve a grade of “C” or better in each course attempted that is counted for the major or area of emphasis. Effective Fall 2008, C- (minus) grades do not satisfy these requirements. Each area of emphasis requires a minimum of 18 units. Liberal Arts Area of Emphasis: California community college courses taken to fulfill CSU GE/IGETC requirements may be used to satisfy a Cypress College Area of Emphasis under Option I. Courses taken at other regionally accredited colleges and universities may also be considered to meet Liberal Arts Area of Emphasis requirements if they are deemed comparable to CSU GE/IGETC-approved courses.

4. General Education Requirements
   a. 24 units as stipulated by the Cypress College graduation requirements plus 1 unit of Physical Education;
   b. 39 units as stipulated by the CSU general education certification requirements; or
   c. 37-39 units as stipulated by the IGETC (Intersegmental General Education Transfer Curriculum) requirements.

   Although a student may have completed all requirements, an Associate Degree is not automatic. Students who intend to graduate must file an application with the Admissions and Records Office.

   Courses taken at other regionally accredited colleges and universities to fulfill General Education requirements may be used to satisfy Cypress College General Education requirements if they are comparable to Cypress College General Education courses or are used in the same category at the sending institution, and are degree applicable at Cypress College. (This policy supersedes all previous catalogs.)

ASSOCIATE DEGREE OPTIONS

Option I - Liberal Arts

The Option I - Liberal Arts degree with Area of Emphasis or Departmental/Area Major provides students with the opportunity to earn a degree within a broad liberal arts education, allowing them to understand the intellectual relationships between various disciplines in either a broader Area of Emphasis, or more specific focus in a Departmental/Area Major. Earning an Associate Degree may or may not be the most effective path to fulfilling transfer requirements. The courses listed for each Area of Emphasis or Departmental/Area Major in the Cypress College catalog do not reflect major preparation requirements at any specific university, but some may be used to fulfill local university requirements. Please consult with a counselor and the Transfer Center for information regarding selection of an appropriate general education pattern and pertinent classes, as well as your intended major at the specific colleges/universities of choice.

Requirements for the Option I – Liberal Arts Degree with Area of Emphasis include:

- Completion of the California State University General Education Breadth requirements (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC).
- Completion of at least 18 units in one Area of Emphasis from those outlined below. (Note: Where appropriate, courses in the Area of Emphasis may also be counted for a GE area).
- A 2.0 (C) overall GPA and a 2.0 (C) in all courses taken in the Area of Emphasis.
- Fulfillment of all graduation requirements, to include one (1) unit of physical education and three (3) units of Cultural Diversity for a total of 60 transferable units.
- Note: Completion of this option automatically meets the Reading Proficiency requirement.

Liberal Arts AA Degree: ARTS & HUMANITIES emphasis

The Arts & Humanities degree is an ideal choice for students planning on transferring to the California State University (CSU) or University of California (UC). Students are able to satisfy both their transfer institutions general education requirements, plus focus on transfer major preparation course work required by the four-year university. The Area of Emphasis listed below includes courses that transfer to CSU and/or UC. Courses in BOLD are transferable to UC. Refer to www.ASSIST.org for further details.

This degree emphasizes the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments.
### Liberal Arts AA Degree: SOCIAL & BEHAVIORAL SCIENCES emphasis

The Social & Behavioral Sciences degree is an ideal choice for students planning on transferring to the California State University (CSU) or University of California (UC). Students are able to satisfy both their transfer institution’s general education requirements, plus focus on transfer major preparation course work required by the four-year university. The Area of Emphasis listed below includes courses that transfer to CSU and/or UC. Courses in BOLD are transferable to UC. Refer to www.ASSIST.org for further details.

This degree emphasizes the perspective, concepts, theories and methodologies of the disciplines typically found in the vast variety of disciplines that comprise study in the Social and Behavioral Sciences. Students will study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate.

### SELECT 18 OR MORE UNITS FROM AT LEAST 2 DISCIPLINE AREAS:

| CHIN 101 C, 102 C |
| COMM 220 C, (220HC) |
| ETHS 130 C, 131 C, 151 C (formerly 141 C), 152 C, 160 C, 171 C |
| FREN 101 C, 102 C, 200 C, 203 C, 204 C |
| IND 100 C, 101 C |
| JAPN 101 C, 102 C, 125 C, 200 C, 203 C, 204 C |
| PHOT 101 C |
| PORT 101 C, 102 C |
| SPAN 101 C, (101HC), 102 C, (102HC), 200 C, 201 C, 203 C, 204 C |
| Plus CSU General Education or IGETC Requirements for Cypress College Associate of Arts Degree. |

### Social & Behavioral Sciences degree:

This degree emphasizes the content of communication as well as the form and should provide an understanding of the psychological basis and social significance of communication. Students will be able to assess communication as the process of human symbolic interaction. Students will also develop skills in the areas of reasoning and advocacy, organization, accuracy, reading and listening effectively. Students will be able to integrate important concepts of critical thinking as related to the development of analysis, critical evaluation, to reason inductively and deductively that will enable them to make important decisions regarding their own lives and society at large.

### SELECT 18 OR MORE UNITS FROM AT LEAST 2 DISCIPLINE AREAS:

| COMM 120 C |
| ECON 100 C, (100HC), 105 C, (105HC), 110C, 260 C |
| ETHS 100 C, (100HC), 129 C, 130 C, 131 C, 150 C, 151 C (formerly 141 C), 152 C, 160 C, 170 C, 171 C, 235 C |
| GEOG 100 C, (100HC), 130 C, 140 C, 160 C, 260 C |
| HS 277 C |
| HUSR 200 C, 250 C, 255 C, 292 C |
| JOUR 110 C, 118 C |
| MGT 161 C |

Plus CSU General Education or IGETC Requirements for Cypress College Associate of Arts Degree.
Liberal Arts AA Degree: MATH & SCIENCE emphasis
The Math & Science degree is an ideal choice for students planning on transferring to the California State University (CSU) or University of California (UC). Students are able to satisfy both their transfer institution's general education requirements, plus focus on transfer major preparation coursework required by the four-year university. The Area of Emphasis listed below includes courses that transfer to CSU and/or UC. Courses in BOLD are transferable to UC. Refer to www.ASSIST.org for further details.

This degree emphasizes the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in Math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world’s civilizations.

SELECT 18 OR MORE UNITS FROM AT LEAST 2 DISCIPLINE AREAS (ONE COURSE MUST BE IN MATH AND ONE COURSE MUST BE IN SCIENCE):
- ANTH 101 C, (101HC), 101LC
- ASTR 116 C, (116HC), 117 C, (117HC)
- CHEM 100 C, 101 C, 103 C, 104 C, 107 C, 111AC, 111BC
- CSCI 205 C
- GEOG 102 C, 102LC
- GEOL 100 C, (100HC), 101 C, 103 C, 105 C, 115 C, 120 C, 125 C, 130 C, 131 C, 190C
- MATH 100 C, 120 C, 130 C, 141 C, 142 C, 150AC, 150BC, 250AC, 250BC
- PHSC 104 C
- PHYS 130 C, 201 C, 202 C, 210 C, 211 C, 221 C, 222 C, 223 C
- PSY 161 C
- SOC 161 C

Plus CSU General Education or IGETC Requirements for Cypress CollegeAssociate of Arts Degree.

Requirements for the Option I – Specified Departmental/Area Major include:
- Completion of the California State University General Education Breadth requirements (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC).
- Completion of at least 18 units in one Departmental/Area Major from those outlined below. (Note: Where appropriate, courses in the Departmental/Area Major may also be counted for a GE area).
- A 2.0 (C) overall GPA and a 2.0 (C) in all courses taken in the Departmental/Area Major.
- Fulfillment of all graduation requirements, to include one (1) unit of physical education and three (3) units of Cultural Diversity for a total of 60 transferable units.
- Note: Completion of this option automatically meets the Reading Proficiency requirement.

Plus CSU General Education or IGETC Requirements for Cypress College Associate of Arts Degree.

This degree includes only transfer-level coursework; however, students who select a Departmental/Area Major, and intend to earn a Bachelor’s Degree should consult with a counselor to ensure optimal application of credit toward the Bachelor’s Degree requirements. Completion of major preparation requirements as determined by the receiving UC or CSU campus are officially listed on the Assist website at www.ASSIST.org. NOTE: Specific course requirements for Departmental/Area Majors are listed in applicable sections of the catalog.

Departmental/Area Majors Offered by Cypress College are:
- Anthropology
- Business Administration
- General Business
- Geography
- Ethnic Studies/African American Studies/Chicana/o Studies
- Philosophy
- Psychology
- Sociology

Option II - Occupational
The Option II - 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 coursework (see Course Numbering section for description of transfer and non-transfer coursework) and includes completion of major requirements.

Requirements for the Option II - Occupational Degree include:
- Completion of 25 units of general education including one (1) unit of physical education. These units must be chosen from the classes listed in the General Education Requirements for the Associate Degree.
- Completion of Major emphasis 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-eligible classes for a total of 60 units (see Non-Degree Credit Courses for description of classes that are non-degree eligible).
- A 2.0 (C) overall GPA.
- Fulfillment of all graduation requirements.

Occupational Degrees Offered by Cypress College are:
- Accounting
- Administrative Assistant
- Administrative Support
- Air Conditioning and Refrigeration
- Airline Customer Services
- Art - General
- Art - Advertising Design
- Automotive Collision Repair
- Automotive Technology
- Aviation Management
- Commercial Pilot
- Computer Applications
- Computer Information Systems
- Computer Programming
- Court Reporting
- Culinary Arts
- Dance
- Dental Hygiene
- Diagnostic Medical Sonography
- Drafting Engineering Technology
- Flight Attendant
- Food Service Management
- General Studies
- Health Information Technology
- Hotel Management
- Human Services
Requirements for the Option III - General Studies Degree with Area of Emphasis include:

- Completion of 25 units of General Education Graduation Requirements including one (1) unit of physical education and three (3) units of Cultural Diversity for a total of 60 units. These units must be chosen from the classes listed in the General Education Requirements for the Associate Degree.

- Completion of at least 18 units in an Area of Emphasis. (Note: Where appropriate, courses in the Area of Emphasis may also be counted for a GE area).

- Completion of additional degree-eligible classes for a total of 60 units (see Non-degree Credit Courses for description of classes that are non-degree eligible). No more than 15 of these units can be in activity/laboratory only classes.

- A 2.0 (C) overall GPA and a 2.0 (C) in all courses taken in the Area of Emphasis.

- At least 50% of all major course work must be completed at Cypress College.

An Associate in Arts Degree includes at least 20 units in Social Science, Humanities and Arts courses. An Associate in Science Degree includes at least 20 units in Science, Math and Technical courses.

NOTE: Specific course requirements for the General Studies Option in Fine Arts are included under the Interdisciplinary Studies section of this catalog. Please review these pages for a complete listing of required coursework.
MULTIPLE DEGREES
Students may be awarded a degree in multiple majors at Cypress College providing they meet the above-stated requirements. Students who have already been awarded an Associate Degree from Cypress College are not eligible to receive an Associate Degree in the same major or in General Studies. This ineligibility also applies if an Associate Degree or higher was awarded by another regionally accredited college or university in or outside of the United States.

General Education Requirements for the Associate Degree
General Education requirements at Cypress College are designed to introduce students to the many ways people comprehend the modern world. The subject matter presented in general education courses is designed to be broad, and frequently introductory, rather than specialized, narrow, or advanced. These courses form a pattern of learning experiences designed to develop the following insights and capacities in all students, regardless of their ultimate educational goals:

- Knowledge of the common principles, concepts, and modes of inquiry in the major disciplines;
- Appreciation and understanding of the environment, culture, society, and self;
- Ability to think and communicate clearly and effectively, critically and ethically both orally and in writing;
- Proficiency in mathematics, natural science, and analytical thinking;
- Understanding of the political and economic environment in order to be better informed and more responsible citizens;
- Desire to continue education throughout their lives.

Courses taken for general education must be on the Associate Degree General Education list at the time they are taken. Students may use only one English course numbered 001 C – 099 C towards meeting the general education requirements for an AA or AS degree. Continuing students should check with a counselor in planning completion of General Education requirements.

Students entering Cypress College in Fall 1995, or later, must complete 25 units of General Education (of the total 60 degree-applicable units required for the Associate Degree) taken from the following areas:

CATEGORY A - LANGUAGE AND RATIONALITY
(6 Units)
A1. Written Communication - A minimum of 3 Units
ENGL 100 C College Writing 3
ENGL 100HC Honors College Writing 3

A2. Analytical Thinking - A minimum of 3 Units
COMM 050 C Effective Oral Communication 3
COMM 100 C Human Communication 3
COMM 100HC Honors Human Communication 3
COMM 135 C Essentials of Argumentation 3
CIS 111 C Computer Information Systems 3
ENGL 103 C Critical Reasoning and Writing 3
ENGL 104 C Critical Analysis & Literature 4
ENGL 104HC Honors Critical Analysis & Literature 4
ENGL 106 C Critical Thinking 3
ENGL 135 C Logic and Critical Thinking 3
PHIL 170 C Critical Thinking/Writing 3

CATEGORY B - NATURAL SCIENCES AND MATHEMATICS
(6 Units)
B1. Life Sciences and Physical Sciences - A minimum of 3 units.

Biological Anthropology
ANTH 101 C Biological Anthropology 3
ANTH 101HC Honors Biological Anthropology 3
ANTH 101LC Biological Anthropology Lab 1

General Biological Science
BIOL 101 C General Biology 5
BIOL 101HC Honors General Biology 5

Physical Sciences
ASTR 116 C Introduction to Astronomy - Lec 3
ASTR 116HC Honors Intro to Astronomy - Lec 3
ASTR 117 C Introduction to Astronomy - Lab 1
CHEM 100 C General Chemistry 5
CHEM 101 C General Chemistry 5

Physical Science for Teachers
CHEM 104 C Physical Science for Teachers 4
CHEM 107 C Foundations of Chemistry 5
CHEM 111AC General Chemistry 5
CHEM 111BC General Chemistry 5
CHEM 102 C Physical Geology - Lec 3
CHEM 102LC Physical Geology - Lab 1

Geological Science
CHEM 100 C Physical Geology - Lec 3
CHEM 100HC Honors Physical Geology - Lec 3
CHEM 101 C Physical Geology - Lab 1

Oceanography
GEOL 130 C Intro to Oceanography - Lec 3
GEOL 131 C Intro to Oceanography - Lab 1

Environmental Geology
GEOL 190 C Environmental Geology 3

Physics
PHYS 104 C Physical Science for Teachers 4
PHYS 105 C Principles of Physics 4
PHYS 106 C Principles of Physics 4
PHYS 201 C College Physics 4
PHYS 210 C Physics 4
PHYS 211 C Physics 4
PHYS 221 C General Physics 4

PHYS 104 C Physical Science for Teachers 4
PHYS 105 C Principles of Physics 4
PHYS 106 C Principles of Physics 4
PHYS 201 C College Physics 4
PHYS 210 C Physics 4
PHYS 211 C Physics 4
PHYS 221 C General Physics 4
### B2. Mathematics - A minimum of 3 Units*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 030 C</td>
<td>Plane Geometry</td>
<td>4</td>
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<tr>
<td>MATH 038 C</td>
<td>Practical Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 040 C</td>
<td>Intermediate Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 100 C</td>
<td>Liberal Arts Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110 C</td>
<td>Real Numbers for Teachers</td>
<td>4</td>
</tr>
<tr>
<td>MATH 115 C</td>
<td>Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 120 C</td>
<td>Intro Probability &amp; Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 130 C</td>
<td>Survey of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 141 C</td>
<td>College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 142 C</td>
<td>Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 150AC</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 150BC</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 250AC</td>
<td>Multivariable Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 250BC</td>
<td>Linear Algebra/Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>PSY 161 C</td>
<td>Probability &amp; Stats – Social Sci.</td>
<td>4</td>
</tr>
<tr>
<td>SOC 161 C</td>
<td>Probability &amp; Stats – Social Sci.</td>
<td>4</td>
</tr>
</tbody>
</table>

*The Mathematics requirement can also be met by passing a Mathematics Proficiency Examination. Refer to the Class Schedule for time and date of administration of the Mathematics Proficiency Examination. See Math Proficiency Examination explanation, location can be found in the MATHEMATICS portion of the Class Schedule or the Catalog.

### CATEGORIE C - ARTS AND HUMANITIES

#### (6 Units)

**C1. Arts - A minimum of 3 units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART 100 C</td>
<td>Fundamentals of Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 110 C</td>
<td>Introduction to Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 111 C</td>
<td>Survey of Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 112 C</td>
<td>Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 112HC</td>
<td>Honors Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 114 C</td>
<td>Modern Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 120 C</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 150 C</td>
<td>Ceramics Handbuilding</td>
<td>3</td>
</tr>
<tr>
<td>ART 151 C</td>
<td>Ceramics Throwing</td>
<td>3</td>
</tr>
<tr>
<td>ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 185 C</td>
<td>Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 189 C</td>
<td>Fundamentals of Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 216 C</td>
<td>Latin American Art</td>
<td>3</td>
</tr>
</tbody>
</table>

**Dance**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 101 C</td>
<td>Multicultural Dance in the U. S.</td>
<td>3</td>
</tr>
<tr>
<td>DANC 105 C</td>
<td>Ballet</td>
<td>1-2, 1-2</td>
</tr>
<tr>
<td>DANC 106 C</td>
<td>Classical Dance</td>
<td>1-2, 1-2</td>
</tr>
<tr>
<td>DANC 107 C</td>
<td>Modern Dance</td>
<td>1-2, 1-2</td>
</tr>
<tr>
<td>DANC 108 C</td>
<td>Free Form Dance</td>
<td>1-2, 1-2</td>
</tr>
<tr>
<td>DANC 111 C</td>
<td>Jazz Dance</td>
<td>1-2, 1-2</td>
</tr>
<tr>
<td>DANC 112 C</td>
<td>Intermediate Jazz Dance</td>
<td>1-2, 1-2</td>
</tr>
<tr>
<td>DANC 120 C</td>
<td>Dance History</td>
<td>3</td>
</tr>
<tr>
<td>DANC 134 C</td>
<td>Latin Jazz</td>
<td>1-2</td>
</tr>
</tbody>
</table>

**Literature**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 125 C</td>
<td>The Film</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 125HC</td>
<td>Honors Film</td>
<td>3</td>
</tr>
</tbody>
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**Music**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 101 C</td>
<td>Theory and Musicianship I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 103AC</td>
<td>Jazz History</td>
<td>3</td>
</tr>
<tr>
<td>MUS 113 C</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>MUS 116 C</td>
<td>American Popular Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 118 C</td>
<td>Introduction to Opera</td>
<td>3</td>
</tr>
<tr>
<td>MUS 118HC</td>
<td>Honors Intro to Opera</td>
<td>3</td>
</tr>
<tr>
<td>MUS 119 C</td>
<td>History of Rock Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 120 C</td>
<td>Survey of Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUS 122 C</td>
<td>Concert Hour</td>
<td>1, 1</td>
</tr>
<tr>
<td>MUS 135 C</td>
<td>Beginning Piano</td>
<td>1</td>
</tr>
<tr>
<td>MUS 274 C</td>
<td>Cypress Symphonic Winds</td>
<td>1, 1</td>
</tr>
<tr>
<td>MUS 280 C</td>
<td>Jazz/Musical Theater Choir</td>
<td>1, 1, 1</td>
</tr>
<tr>
<td>MUS 282 C</td>
<td>Cypress Masterworks Chorale</td>
<td>1, 1, 1</td>
</tr>
<tr>
<td>MUS 291 C</td>
<td>Musical Theater Techniques</td>
<td>3</td>
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**Photography**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PHOT 101 C</td>
<td>Introduction to Photography</td>
<td>3</td>
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**Theater Arts**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>THEA 100 C</td>
<td>Introduction to the Theater</td>
<td>3</td>
</tr>
<tr>
<td>THEA 107 C</td>
<td>Diversity in American Theater</td>
<td>3</td>
</tr>
<tr>
<td>THEA 107HC</td>
<td>Honors Diversity in American Theater</td>
<td>3</td>
</tr>
<tr>
<td>THEA 108 C</td>
<td>Stage and Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 120 C</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 126 C</td>
<td>Musical Theater Techniques</td>
<td>3</td>
</tr>
<tr>
<td>THEA 129 C</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
<tr>
<td>THEA 132 C</td>
<td>Musical Theater Workshop</td>
<td>2-3, 2-3</td>
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<tr>
<td>THEA 133 C</td>
<td>Rehearsal and Performance</td>
<td>2-3, 2-3</td>
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<tr>
<td>THEA 149 C</td>
<td>Stage Crew Activity</td>
<td>2-3, 2-3</td>
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**C2. Humanities - A minimum of 3 Units**

**Foreign Language**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHIN 100 C</td>
<td>Beginning Spoken Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 101 C</td>
<td>Elementary Chinese - Mandarin I</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 102 C</td>
<td>Elementary Chinese - Mandarin II</td>
<td>5</td>
</tr>
<tr>
<td>FREN 101 C</td>
<td>Elementary French I</td>
<td>5</td>
</tr>
<tr>
<td>FREN 102 C</td>
<td>Elementary French II</td>
<td>5</td>
</tr>
<tr>
<td>FREN 203 C</td>
<td>Intermediate French III</td>
<td>4</td>
</tr>
<tr>
<td>FREN 204 C</td>
<td>Intermediate French IV</td>
<td>4</td>
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<tr>
<td>JAPN 100 C</td>
<td>Spoken Japanese for Beginners</td>
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<tr>
<td>JAPN 101 C</td>
<td>Elementary Japanese I</td>
<td>5</td>
</tr>
<tr>
<td>JAPN 102 C</td>
<td>Elementary Japanese II</td>
<td>5</td>
</tr>
<tr>
<td>JAPN 125 C</td>
<td>Japanese Culture through Film</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 203 C</td>
<td>Intermediate Japanese III</td>
<td>4</td>
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<tr>
<td>JAPN 204 C</td>
<td>Intermediate Japanese IV</td>
<td>4</td>
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<tr>
<td>PORT 101 C</td>
<td>Elementary Portuguese I</td>
<td>5</td>
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<tr>
<td>PORT 102 C</td>
<td>Elementary Portuguese II</td>
<td>5</td>
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<tr>
<td>SPAN 101 C</td>
<td>Elementary Spanish I</td>
<td>5</td>
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<tr>
<td>SPAN 101HC</td>
<td>Honors Elementary Spanish I</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 102 C</td>
<td>Elementary Spanish II</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 102HC</td>
<td>Honors Elementary Spanish II</td>
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<tr>
<td>SPAN 201 C</td>
<td>Spanish for Spanish Speakers</td>
<td>5</td>
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<tr>
<td>SPAN 203 C</td>
<td>Intermediate Spanish III</td>
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<tr>
<td>SPAN 204 C</td>
<td>Intermediate Spanish IV</td>
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### Interdisciplinary Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COMM 220 C</td>
<td>The Rhetoric of the City</td>
<td>3</td>
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<tr>
<td>COMM 220HC</td>
<td>Honors Rhetoric of the City</td>
<td>3</td>
</tr>
<tr>
<td>INDS 100 C</td>
<td>Humanities: Ancient and Medieval</td>
<td>3</td>
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<tr>
<td>INDS 101 C</td>
<td>Humanities: Renaissance - Present</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 110 C</td>
<td>Global Media</td>
<td>3</td>
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</tbody>
</table>

### Literature

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 097 C</td>
<td>Multicultural Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102 C</td>
<td>Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110 C</td>
<td>Humanities: Ancient &amp; Medieval</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111 C</td>
<td>Humanities: Renaissance - Present</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 116 C</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 211 C</td>
<td>Asian-American Literature</td>
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</tr>
<tr>
<td>ENGL 212 C</td>
<td>English Literature to 1760</td>
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</tr>
<tr>
<td>ENGL 212 C</td>
<td>American Literature: Part One</td>
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</tr>
<tr>
<td>ENGL 222 C</td>
<td>American Literature: Part Two</td>
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</tr>
<tr>
<td>ENGL 234 C</td>
<td>Multicultural Literature</td>
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</tr>
<tr>
<td>ENGL 234HC</td>
<td>Honors Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 239 C</td>
<td>Survey - Children's Literature</td>
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</tr>
<tr>
<td>ENGL 247 C</td>
<td>African-American Literature I</td>
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</tr>
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<td>ENGL 255 C</td>
<td>African-American Literature II</td>
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### Philosophy

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PHIL 100 C</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 100HC</td>
<td>Honors Intro to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 101 C</td>
<td>Intro to Religious Studies</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 110 C</td>
<td>Religions of the East</td>
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</tr>
<tr>
<td>PHIL 120 C</td>
<td>Religions of the West</td>
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</tr>
<tr>
<td>PHIL 160 C</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 201 C</td>
<td>History of Philosophy: Ancient &amp; Medieval</td>
<td>3</td>
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<tr>
<td>PHIL 202 C</td>
<td>History of Philosophy:Modern &amp; Contemporary Philosophy of Religion</td>
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### Literature

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ENGL 102 C</td>
<td>Introduction to Literature</td>
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</tr>
<tr>
<td>ENGL 102HC</td>
<td>Honors Rhetoric of the City</td>
<td>3</td>
</tr>
<tr>
<td>ANT 106 C</td>
<td>World Prehistory</td>
<td>3</td>
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<tr>
<td>ANT 203 C</td>
<td>Introduction to Archaeology</td>
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</tr>
<tr>
<td>COMM 220 C</td>
<td>The Rhetoric of the City</td>
<td>3</td>
</tr>
<tr>
<td>ECON 100 C</td>
<td>Principles of Economics-Macro</td>
<td>3</td>
</tr>
<tr>
<td>ECON 100HC</td>
<td>Honors Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 105 C</td>
<td>Principles of Economics-Micro</td>
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</tr>
<tr>
<td>ECON 105HC</td>
<td>Honors Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 110 C</td>
<td>Survey of Economics</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 100 C</td>
<td>American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 100HC</td>
<td>Honors American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 129 C</td>
<td>Intro to African-Amer. Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 130 C</td>
<td>African-American History I</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 131 C</td>
<td>African-American History II</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 150 C</td>
<td>Intro to Chicana/o Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 151 C</td>
<td>Chicana/o History I</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 152 C</td>
<td>Chicana/o History II</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 160 C</td>
<td>Native American History</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 170 C</td>
<td>Intro to Asian-Amer. Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 171 C</td>
<td>Asian-American History</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 100 C</td>
<td>World Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 100HC</td>
<td>Honors World Geography</td>
<td>3</td>
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</table>

### CATEGOR E - PHYSICAL ACTIVITY AND HEALTH (1 Unit)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 100 C</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PE 093 C</td>
<td>Physical Education Activity Classes</td>
<td>1/2/2</td>
</tr>
<tr>
<td>PE 234 C</td>
<td>Contemporary Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>PE 244 C</td>
<td>Human Performance</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTE:** General Education courses taken at either Fullerton or Cypress College will satisfy Associate Degree General Education Graduation requirements regardless of the college within the District from which he/she graduates.
Cultural Diversity
As an educational community, Cypress College embraces the shared characteristics as well as the diverse intellectual viewpoints and ideas of its culturally rich population. To prepare students for effective participation in our society, selected academic courses are designed to: 1) foster respect for diverse populations; 2) assist students in understanding and critically evaluating personal biases; and 3) encourage students to apply the knowledge gained in these courses in their daily lives.

To achieve this educational goal, Cypress College will require all students to take at least one course whose emphasis is on the United States and focuses specifically on issues such as race, gender, religion, national origin, sexual orientation, socio-economic background, physical and/or mental ability, and how they impact the struggles of people to achieve civil and human rights.

Students must take at least one 3 unit course from the following list of classes which meet standards for Cultural Diversity:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 128 C</td>
<td>Cultural Tourism</td>
<td>3</td>
</tr>
<tr>
<td>ANT 121 C</td>
<td>Native North America</td>
<td>3</td>
</tr>
<tr>
<td>COMM 120 C</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COUN 152 C</td>
<td>Diversity in the World of Work</td>
<td>3</td>
</tr>
<tr>
<td>DANC 101 C</td>
<td>Multicultural Dance in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 097 C</td>
<td>Multicultural Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 208 C</td>
<td>Asian-American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 239 C</td>
<td>Survey – Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 247 C</td>
<td>Multicultural Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 255 C</td>
<td>African-American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 256 C</td>
<td>African-American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 100 C</td>
<td>American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 100 HC</td>
<td>Honors American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 120 C</td>
<td>Intro to African-Amer. Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 130 C</td>
<td>African-American History I</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 131 C</td>
<td>African-American History II</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 150 C</td>
<td>Intro to Chicana/o Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 151 C</td>
<td>Chicana/o History I</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 152 C</td>
<td>Chicana/o History II</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 153 C</td>
<td>Chicana/o Contemporary Issues</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 160 C</td>
<td>Native American History</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 170 C</td>
<td>Intro to Asian-Amer. Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 171 C</td>
<td>Asian-American History</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 235 C</td>
<td>The Civil Rights Movement</td>
<td>3</td>
</tr>
<tr>
<td>HIST 275 C</td>
<td>History of California</td>
<td>3</td>
</tr>
<tr>
<td>HS 277 C</td>
<td>Cultural Awareness &amp; Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 295 C</td>
<td>Cross-Cultural Criminology</td>
<td>3</td>
</tr>
<tr>
<td>MKT 205 C</td>
<td>Multicultural Markets in U.S.</td>
<td>3</td>
</tr>
<tr>
<td>MUS 113 C</td>
<td>Jazz History</td>
<td>3</td>
</tr>
<tr>
<td>PE 250 C</td>
<td>Sport &amp; United States Society</td>
<td>3</td>
</tr>
<tr>
<td>POSC 209 C</td>
<td>Urban Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 237 C</td>
<td>Cross-Cultural Relationships</td>
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<tr>
<td>SOC 237 C</td>
<td>Cross-Cultural Relationships</td>
<td>3</td>
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<tr>
<td>THEA 107 C</td>
<td>American Ethnic Theater</td>
<td>3</td>
</tr>
<tr>
<td>THEA 107HC</td>
<td>Honors American Ethnic Theater</td>
<td>3</td>
</tr>
</tbody>
</table>

Cultural Diversity Approved Programs:
Nursing

Reading Proficiency
Proficiency in reading may be satisfied by completing one of the following:

- ENGL 096 C College Reading Strategies
- ENGL 102 C Introduction to Literature
- ENGL 106 C Critical Thinking
- A satisfactory score on the Cypress College reading proficiency test. (Refer to the Class Schedule listed under STEP TWO, ENGLISH ASSESSMENT.) A student may attempt to pass the proficiency exam only one time after completion of English 100 C or equivalent.
- California State University (CSU) general education certification.
- IGETC certification.
- Bachelor’s degree from a regionally accredited institution.

APPLICATION FOR GRADUATION
Students may apply for graduation during the semester they are completing graduation requirements or thereafter. They do not have to be currently enrolled at Cypress College to apply for graduation. Those students who have maintained continuous enrollment have the option of completing the graduation requirements in effect at the time they initially enrolled or any subsequent catalog up to and including the semester their graduation requirements are completed.

Applications for graduation are available on the Web and in the Admissions and Records Office and will be accepted until the deadline. If the application is not filed by the deadline, the student must submit another application and will graduate at a later date. There is no fee for the graduation application.

It is the student’s responsibility to provide the Cypress College Records Office with official copies of all transcripts from other colleges that will be used to meet requirements for graduation. The transcripts become the property of the Admissions and Records Office and will not be released.

Diplomas will be available approximately two months after the date of graduation and will be mailed to the address noted on the Graduation Application filed with the Records Office. Commencement is held once a year at Cypress College. Commencement ceremonies are held for the prior Summer and Fall graduates and completed in-progress Spring graduates. Guest passes for attendance are not required. Refer to the Class Schedule for the date of the ceremony.

HOW TO EARN A VOCATIONAL CERTIFICATE
A Vocational Certificate is a verification of competency designed to show that the student is proficient and employable in a specific occupational skill. Certificates do not require general education course work.

Requirements for Vocational Certificate Programs for the 2010-2011 Catalog Year include:

- Submission of an Application for Certificate in the Records Office.
- Completion of a specific program of vocational 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 majors 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 graduation requirements have been met.
<table>
<thead>
<tr>
<th>Vocational Certificates offered by Cypress College are:</th>
<th>GEOGRAPHIC INFORMATION SYSTEMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR CONDITIONING AND REFRIGERATION</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>Air Conditioning and Refrigeration</td>
<td></td>
</tr>
<tr>
<td>AIRLINE AND TRAVEL CAREERS</td>
<td>HEALTH INFORMATION</td>
</tr>
<tr>
<td>Basic Airline Customer Services</td>
<td>Health Care Management and Supervision</td>
</tr>
<tr>
<td>Basic Flight Attendant</td>
<td>Health Care Marketing and Sales</td>
</tr>
<tr>
<td>Basic Travel/Tourism</td>
<td>Health Information Coding</td>
</tr>
<tr>
<td>Advanced Airline Customer Services</td>
<td>*Health Information Technology</td>
</tr>
<tr>
<td>Advanced Flight Attendant</td>
<td>Medical Insurance Billing Specialist</td>
</tr>
<tr>
<td>Advanced Travel/Tourism</td>
<td>Medical Quality Review Assistant</td>
</tr>
<tr>
<td>Animation 2D Computer Graphics</td>
<td>Medical Record Clerk</td>
</tr>
<tr>
<td>Animation 3D Computer Graphics</td>
<td>*Medical Staff Services Science</td>
</tr>
<tr>
<td>Computer Graphics</td>
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</tr>
<tr>
<td>Electronic Publishing Design</td>
<td>HOTEL, RESTAURANT, CULINARY ARTS</td>
</tr>
<tr>
<td>Multimedia Art</td>
<td>Basic Baker</td>
</tr>
<tr>
<td>Multimedia Advertising</td>
<td>Basic Cook</td>
</tr>
<tr>
<td>Vector Illustration</td>
<td>Culinary Arts</td>
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<tr>
<td></td>
<td>Dining Room Operations</td>
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<tr>
<td>AUTOMOTIVE</td>
<td>Food Service Management</td>
</tr>
<tr>
<td>Auto Sales and Service</td>
<td>Hotel Operations</td>
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<tr>
<td>Automotive Collision Repair</td>
<td>Restaurant/Lodging Entrepreneur</td>
</tr>
<tr>
<td>Automotive Damage Appraisal</td>
<td>Rooms Operation</td>
</tr>
<tr>
<td>Automotive Detailing</td>
<td>Special Event Management</td>
</tr>
<tr>
<td>Automotive Paint and Refinishing</td>
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</tr>
<tr>
<td>Automotive Technology</td>
<td>HUMAN SERVICES</td>
</tr>
<tr>
<td>Brake and Alignment Specialist</td>
<td>Alcohol and Drug Studies</td>
</tr>
<tr>
<td>Electrical Systems Specialist</td>
<td>Criminal Justice</td>
</tr>
<tr>
<td>Emission Control Specialist</td>
<td>Conflict Resolution</td>
</tr>
<tr>
<td>Engine Specialist</td>
<td>Family Studies Basic/Advanced</td>
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<tr>
<td>Insurance Co/Auto Collision Repair Industry Management Skills</td>
<td>Gerontology</td>
</tr>
<tr>
<td>Motorcycle Performance Technician</td>
<td>Human Services Generalist</td>
</tr>
<tr>
<td>Performance and Driveability Specialist</td>
<td>Victimology</td>
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<tr>
<td>Toyota Specialist</td>
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<tr>
<td>Transmission Specialist</td>
<td>INFORMATION SYSTEMS</td>
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<tr>
<td>AVIATION</td>
<td>Advanced Computer Office Applications</td>
</tr>
<tr>
<td>Advanced Pilot</td>
<td>Advanced Game Development/Programming</td>
</tr>
<tr>
<td>Commercial Pilot</td>
<td>Advanced Web Page Design</td>
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<tr>
<td>Instrument Pilot</td>
<td>Cisco Networking</td>
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<tr>
<td>Private Pilot</td>
<td>Computer Applications</td>
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<td>Professional Pilot</td>
<td>Computer Hardware Support</td>
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<td>BUSINESS</td>
<td>Computer Information Systems</td>
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<td>Accounting</td>
<td>Computer Programming</td>
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<tr>
<td>Internet Marketing</td>
<td>Computer Software and Application</td>
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<td>Leadership</td>
<td>Game Programming</td>
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<td>Management</td>
<td>Internet and Data Communications</td>
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<td>Marketing</td>
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<td>Merchandising</td>
<td>Oracle Database Administration</td>
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<td>Multicultural Marketing</td>
<td>Project Management</td>
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<td>Professional Marketing</td>
<td>Technology Management</td>
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<td>Professional Selling</td>
<td>Visual Basic Programming</td>
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<td>Retail Management</td>
<td>Visual C Programming</td>
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<tr>
<td>Small Business Operations</td>
<td>Web Page Design</td>
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<tr>
<td>COURT REPORTING</td>
<td>MANAGEMENT</td>
</tr>
<tr>
<td>Captioning – Court Reporting</td>
<td>Business Economics</td>
</tr>
<tr>
<td>CART* (Communication Access Realtime Translation)</td>
<td>Call Center Operations</td>
</tr>
<tr>
<td>Computer Editor (Scopist)</td>
<td>Commercial Music</td>
</tr>
<tr>
<td>Court Reporting</td>
<td>Health Care Management and Supervision</td>
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<tr>
<td>Hearing Reporter</td>
<td>Leadership</td>
</tr>
<tr>
<td>Proofreading</td>
<td>Project Management</td>
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<tr>
<td>Realtime Writing</td>
<td>Retail Management</td>
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<tr>
<td>Text-Entry Specialist: Business</td>
<td>Small Business Management</td>
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<tr>
<td>Text-Entry Specialist: Medical</td>
<td>Sports Management</td>
</tr>
<tr>
<td>COURT REPORTING</td>
<td>MUSIC</td>
</tr>
<tr>
<td></td>
<td>Commercial Music Management</td>
</tr>
<tr>
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<td>Recording Arts</td>
</tr>
<tr>
<td>DANCE</td>
<td>OFFICE OCCUPATIONS</td>
</tr>
<tr>
<td>Dance Teaching</td>
<td>Administrative Assistant</td>
</tr>
<tr>
<td>Dental Assisting</td>
<td>Administrative Support</td>
</tr>
<tr>
<td>*Dental Hygiene</td>
<td>Legal Secretary/Administrative Assistant I &amp; II</td>
</tr>
<tr>
<td></td>
<td>Office Assistant</td>
</tr>
<tr>
<td></td>
<td>Word Processing</td>
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<tr>
<td>DENTAL</td>
<td></td>
</tr>
<tr>
<td>DIAGNOSTIC MEDICAL SONOGRAPHY</td>
<td></td>
</tr>
<tr>
<td>Diagnostic Medical Sonography</td>
<td></td>
</tr>
</tbody>
</table>
PHOTOGRAPHY
Advertising and Illustrative Photography
Color Photography
Creative Photo Arts
Digital Photography
Multimedia Digital
Multimedia Photography
Photography
Portrait and Wedding Photography

PHYSICAL EDUCATION
Aerobic Instructor
Aquatic Specialist
Athletic Coach
Sports Management

PSYCHIATRIC TECHNOLOGY
Psychiatric Technology

RADIOLOGY
Darkroom Technician/Assistant
*Radiology Technology

THEATER
Costume/Makeup Design
Lighting/Audio Design
Technical Theater

*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.

DEPARTMENT CERTIFICATES
Some vocational departments offer certificates of accomplishment in specialty areas. Students should see a counselor for specific information about department certificate requirements.

APPLICATION FOR CERTIFICATES
Students may apply for a certificate during the semester they are completing the certificate requirements or thereafter. They do not have to be currently enrolled in Cypress College to apply for a certificate. Those students who have maintained continuous enrollment have the option of completing the certificate requirements in effect at the time they initially enrolled or any subsequent catalog up to and including the last semester of attendance.

Students wishing to use courses from another institution to meet Cypress' requirements should meet with a counselor to determine course equivalency.

Applications for certificates are available in the Admissions and Records Office and will be accepted until the deadline. If the application is not filed by the deadline, the student must submit another application and will receive the certificate at a later date. There is no fee for the certificate application.

It is the student’s responsibility to provide the Cypress College Records Office with official copies of all transcripts from other colleges that will be used to meet requirements for certificates. The transcripts become the property of the Admissions and Records Office and will not be released.

Certificates will be mailed approximately two months after the end of the semester in which the student applied and completed the requirements. Program Certificates will be noted on student transcripts.

HOW TO TRANSFER TO A FOUR-YEAR COLLEGE
A Transfer Program typically includes course work in an academic (major) area, general education requirements, and elective courses that transfer to a four-year baccalaureate institution. These programs are designed to parallel the courses offered for freshmen and sophomores at four-year colleges and universities.

Each college or university has its own admission standards and curriculum requirements. Students should decide as soon as possible on the transfer school in order to identify the courses that must be completed and the grades that must be achieved prior to transfer.

In general, students who attend Cypress College may transfer to a four-year college or university without loss of time or credits if, while in attendance, they accomplish the following:

- Satisfy the lower-division general education requirements prescribed by the transfer institution.
- Fulfill the lower-division major requirements prescribed by the transfer institution.
- Remove any subject or grade deficiencies incurred in high school, if required by the transfer institution for admission.
- Complete a minimum of 60 and a maximum of 70 transferable units.
- Maintain the appropriate GPA required by the transfer institution.

Grades are the best indicator of success in academic work. A minimum grade of "C" average in all transfer courses is a requirement for transfer to most four-year colleges. Grades in the major should be significantly higher. Students should confer with a counselor for the specific requirements of the school of their choice.

The following charts indicate the general education transfer requirements for those colleges and universities most frequently utilized by Cypress College students. These transfer agreements are subject to an ongoing review and revision by the transfer institutions. The transfer agreements listed on the following charts represent agreements at the time of publication. Students should contact a counselor or the transfer institution of their choice for current information.

CSU GENERAL EDUCATION BREADTH REQUIREMENTS
Students wishing to transfer to California State Universities should follow this plan.

Requirements for graduation from the California State University System include completion of specific courses in general education. Cypress College is permitted to certify that a student has satisfied the lower division 39-unit general education requirements established by the California State University System.

Under the provisions of Title 5 and Executive Order 595, regionally accredited colleges and universities may certify one or more subject areas for students being admitted to the CSU system, a.k.a. partial certification. Students admitted to a CSU campus with subject area or partial certification should not be held to completing additional courses for the areas already certified.
In order to be partially certified, Cypress College students must complete all the CSU lower-division General Education Breadth Requirements in a specific area. Students who have completed courses at other regionally-accredited colleges and universities may "pass along" those courses for either partial or full certification at Cypress College. To meet general education requirements and obtain full certification, students must complete the pattern of courses in the five categories listed.

Students should apply for certification during or after the semester in which they are completing General Education Breadth Requirements. Students are advised to request certification prior to enrolling at the university due to varying CSU campus partial certification policies that may prohibit the certification from being granted.

CSU Certification policy specifies that a course or sequence of courses used to satisfy a requirement in one area, may not be used to satisfy a requirement in another area. Students should talk to a counselor for more information. Some state universities will also not allow students to count courses in their major field as part of general education requirements.

Courses on this list are approved by the CSU Chancellor's Office for a specific academic year; that is, a course must be on the list when the course is taken in order to be certified. Check with a counselor and review the catalog of the individual state university for further clarification.

Students must submit an application for CSU General Education Certification to the Admissions and Records Office by the appropriate deadline. A pass along form must be completed by a Cypress College counselor when courses are being used from other colleges and universities and submitted with the application for CSU General Education Certification. Deadline application dates can be found by accessing the Admissions and Records link on the website (www.CypressCollege.edu/admissions.php).

A. ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING
(9 Unit minimum)
REQUIREMENT: MUST INCLUDE COMM 100 C/100HC AND ENGL 100 C/100HC AND a minimum of 3 units from Category A3.
All courses in this category must be completed with a grade of "C" or better.
A1 COMM 100 C Human Communication 3
COMM 100HC Honors Human Communication 3
A2 ENGL 100 C College Writing 3
ENGL 100HC Honors College Writing 3
A3 COMM 138 C Essentials of Argumentation 3
COMM 238 C Forensics 1-2
ENGL 103 C Critical Reasoning and Writing 3
ENGL 104 C Critical Analysis & Literature 4
ENGL 104HC Honors Critical Analysis & Literature 4
ENGL 106 C Critical Thinking 3
PHIL 170 C Logic and Critical Thinking 3
PHIL 172 C Critical Thinking/Writing 3
PHIL 175 C Symbolic Logic 3

B. SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING
(9 Unit minimum)
REQUIREMENT: MUST INCLUDE one course from Physical Science AND one course from Life Science AND one course from Mathematics. One of the science courses MUST INCLUDE laboratory experience. Some universities may require two lab courses if a student is not fully certified.
B1/B3 PHYSICAL SCIENCES WITH LAB
ASTR 116 C Introduction to Astronomy 3
ASTR 116HC Honors Introduction to Astronomy 3
ANAT 101 C Biological Anthropology 3
ANTH 101HC Honors Biological Anthropology 3
BIOL 101 C General Biology 5
BIOL 101HC Honors General Biology 5
BIOL 103 C Geology of California 3
BIOL 104 C Critical Analysis & Literature 4
BIOL 104HC Honors Critical Analysis & Lit 4
CHEM 100 C Chemistry for Daily Life 4
CHEM 101 C Physical Geography - Lec 1
CHEM 102 C Physical Geography - Lab 1
CHEM 103 C Physical Geology - Lab 1
CHEM 104 C Physical Geology - Lec 1
CHEM 106C Chemistry Lab 3
CHEM 107 C Foundations of Chemistry 5
CHEM 111AC General Chemistry 5
CHEM 111BC General Chemistry 5
GEOG 100 C Physical Geology - Lec 3
GEOG 100HC Honors Physical Geology - Lec 3
GEOG 101 C Physical Geology - Lab 1
GEOL 100 C Physical Geology - Lec 1
GEOL 105 C Earth Science for Teachers 4
GEOL 115 C Physical Geology Field Lab 1
GEOL 120 C Geology of California 3
GEOL 120HC Honors Geology of California 3
GEOL 130 C Introduction to Oceanography - Lec 1
GEOL 130HC Honors Introduction to Oceanography-Lab 1
PHSC 104 C Physical Science for Teachers 4
PHYS 130 C Principles of Physics 4
PHYS 201 C College Physics 4
PHYS 202 C College Physics 4
PHYS 210 C Physics 4
PHYS 211 C Physics 4
PHYS 221 C General Physics 4
PHYS 222 C General Physics 4
PHYS 223 C General Physics 4

B1 PHYSICAL SCIENCES (NO LAB)
ASTR 116 C Introduction to Astronomy 3
ASTR 116HC Honors Introduction to Astronomy 3
CHEM 100 C Chemistry in a Changing World 3
GEOG 100 C Physical Geology 3
GEOL 100 C Physical Geology - Lec 3
GEOL 100HC Honors Physical Geology - Lec 3
GEOL 115 C Physical Geology Field Lab 1
GEOL 120 C Geology of California 3
GEOL 125 C Natural Disasters 3
GEOL 130 C Introduction to Oceanography 3
GEOL 190 C Environmental Geology 3

B2 LIFE SCIENCES (NO LAB)
ANTH 101 C Biological Anthropology 3
ANTH 101HC Honors Biological Anthropology (pending) 3
BIOL 101 C Human Biology 5
BIOL 103 C Environmental Science 3
BIOL 104 C Critical Analysis & Literature 4
BIOL 104HC Honors Critical Analysis & Lit 4
CHEM 100 C Chemistry for Daily Life 4
CHEM 103 C Chemistry in a Changing World 3
CHEM 106C Chemistry Lab 3
CHEM 107 C Foundations of Chemistry 5
CHEM 111AC General Chemistry 5
CHEM 111BC General Chemistry 5
GEOG 100 C Physical Geology - Lec 3
GEOG 100HC Honors Physical Geology - Lec 3
GEOG 101 C Physical Geology - Lab 1
GEOL 100 C Physical Geology - Lec 1
GEOL 105 C Earth Science for Teachers 4
GEOL 115 C Physical Geology Field Lab 1
GEOL 120 C Geology of California 3
GEOL 125 C Natural Disasters 3
GEOL 130 C Introduction to Oceanography 3

B4 MATHEMATICS (GRADE OF "C" OR BETTER REQUIRED)
CSCI 205 C FORTRAN Programming 3
MATH 100 C Liberal Arts Mathematics 3
MATH 115 C Finite Mathematics 3
MATH 120 C Intro to Probability & Statistics 4
MATH 130 C Survey of Calculus 4
MATH 141 C College Algebra 4
MATH 142 C Trigonometry 4
MATH 150AC Calculus I 4
MATH 150BC Calculus II 4
MATH 151 BC Calculus III 4
MATH 151 BC Calculus III 4
PSY 161 C Probability & Stats-Social Sci. 4
SOC161 C Probability & Stats-Social Sci. 4
### C. ARTS AND HUMANITIES (9 Unit minimum)

**REQUIREMENT:** MUST INCLUDE at least one course in the Arts AND one course in the Humanities.

#### C1 ARTS (Art, Dance, Music, Theater)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>ART 100 C</td>
<td>Fundamentals of Art</td>
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<tr>
<td>ART 110 C</td>
<td>Introduction to Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 111 C</td>
<td>Survey of Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 112 C</td>
<td>Survey of Art History II</td>
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<tr>
<td>ART 112HC</td>
<td>Honors Survey of Art History II</td>
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<tr>
<td>ART 114 C</td>
<td>Modern Art History</td>
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<tr>
<td>ART 120 C</td>
<td>Two Dimensional Design</td>
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<tr>
<td>ART 150 C</td>
<td>Ceramics Handbuilding</td>
<td>3</td>
</tr>
<tr>
<td>ART 151 C</td>
<td>Ceramics Throwing</td>
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<tr>
<td>ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
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<tr>
<td>ART 189 C</td>
<td>Fundamentals of Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 216 C</td>
<td>Latin American Art (pending)</td>
<td>3</td>
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<tr>
<td>DANC 101 C</td>
<td>Multicultural Dance in the U. S.</td>
<td>3</td>
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<tr>
<td>DANC 105 C</td>
<td>Ballet</td>
<td>1-2</td>
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<tr>
<td>DANC 106 C</td>
<td>Classical Dance</td>
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<td>DANC 107 C</td>
<td>Modern Dance</td>
<td>1-2</td>
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<tr>
<td>DANC 108 C</td>
<td>Free Form Dance</td>
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<tr>
<td>DANC 109 C</td>
<td>Dance Improvisation</td>
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<tr>
<td>DANC 111 C</td>
<td>Jazz Dance</td>
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<tr>
<td>DANC 112 C</td>
<td>Intermediate Jazz Dance</td>
<td>1-2</td>
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<tr>
<td>DANC 120 C</td>
<td>Dance History</td>
<td>3</td>
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<tr>
<td>ENGL 125 C</td>
<td>The Film</td>
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<td>ENGL 125HC</td>
<td>Honors Film</td>
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<tr>
<td>MUS 101 C</td>
<td>Music Fundamentals</td>
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<tr>
<td>MUS 103AC</td>
<td>Theory &amp; Musicianship I</td>
<td>4</td>
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<tr>
<td>MUS 113 C</td>
<td>Jazz History</td>
<td>3</td>
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<tr>
<td>MUS 116 C</td>
<td>Music Appreciation</td>
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<tr>
<td>MUS 117 C</td>
<td>American Popular Music</td>
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<tr>
<td>MUS 118 C</td>
<td>Introduction to Opera</td>
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<tr>
<td>MUS 118HC</td>
<td>Honors Introduction to Opera</td>
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<tr>
<td>MUS 119 C</td>
<td>History of Rock Music</td>
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<tr>
<td>MUS 120 C</td>
<td>Survey of Music History</td>
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<tr>
<td>MUS 122 C</td>
<td>Concert Hour</td>
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<td>MUS 126 C</td>
<td>Beginning Voice</td>
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<td>MUS 130 C</td>
<td>Beginning Guitar</td>
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<tr>
<td>MUS 135 C</td>
<td>Beginning Piano</td>
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<tr>
<td>MUS 143 C</td>
<td>Beginning Strings</td>
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<td>MUS 146 C</td>
<td>Woodwind Class</td>
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<td>MUS 282 C</td>
<td>Cypress Masterworks Chorale</td>
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<td>MUS 291 C</td>
<td>Musical Theater Techniques</td>
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<tr>
<td>THEA 100 C</td>
<td>Introduction to the Theater</td>
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<tr>
<td>THEA 107 C</td>
<td>American Ethnic Theater</td>
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<tr>
<td>THEA 107HC</td>
<td>Honors American Ethnic Theater</td>
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<tr>
<td>THEA 120 C</td>
<td>Acting I</td>
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<td>THEA 122 C</td>
<td>Dynamic Movement for the Stage</td>
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<td>THEA 126 C</td>
<td>Musical Theater Techniques</td>
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<td>THEA 129 C</td>
<td>Voice and Diction</td>
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<tr>
<td>THEA 132 C</td>
<td>Musical Theater Workshop</td>
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<td>THEA 133 C</td>
<td>Rehearsal and Performance</td>
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<tr>
<td>THEA 145 C</td>
<td>Fundamentals of Costume Design</td>
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<td>THEA 149 C</td>
<td>Stage Crew Activity</td>
<td>2-3</td>
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### C2 HUMANITIES (Literature, Philosophy, Foreign Language)

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<td>CHIN 101 C</td>
<td>Elementary Chinese-Mandarin I</td>
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<td>CHIN 102 C</td>
<td>Elementary Chinese-Mandarin II</td>
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<td>COMM 220 C</td>
<td>Rhetoric of the City</td>
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<td>Honors Rhetoric of the City</td>
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<td>ENGL 110 C</td>
<td>Humanities: Ancient &amp; Medieval</td>
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<td>ENGL 111 C</td>
<td>Humanities: Renaissance - Present</td>
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<td>ENGL 125 C</td>
<td>The Film</td>
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<tr>
<td>ENGL 125HC</td>
<td>Honors Film</td>
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<tr>
<td>ENGL 208 C</td>
<td>Asian-American Literature</td>
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<td>ENGL 211 C</td>
<td>English Literature to 1760</td>
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<td>English Literature since 1760</td>
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<td>ENGL 221 C</td>
<td>American Literature - Part One</td>
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<td>ENGL 222 C</td>
<td>American Literature - Part Two</td>
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<tr>
<td>ENGL 234 C</td>
<td>Shakespeare</td>
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<td>ENGL 234HC</td>
<td>Honors Shakespeare</td>
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<td>ENGL 239 C</td>
<td>Survey of Children's Literature</td>
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<td>ENGL 247 C</td>
<td>Multicultural Literature</td>
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<td>ENGL 255 C</td>
<td>African-American Literature</td>
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<td>African-American History I</td>
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<td>African-American History II</td>
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<td>ETHS 151 C</td>
<td>Chicana/o History I</td>
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<td>ETHS 152 C</td>
<td>Chicana/o History II</td>
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<td>ETHS 160 C</td>
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<td>ETHS 171 C</td>
<td>Asian-American History</td>
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<td>FREN 101 C</td>
<td>Elementary French I</td>
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<td>FREN 102 C</td>
<td>Elementary French II</td>
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<tr>
<td>FREN 200 C</td>
<td>Conversational French</td>
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<td>FREN 203 C</td>
<td>Intermediate French III</td>
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<td>FREN 204 C</td>
<td>Intermediate French IV</td>
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<td>HIST 110 C</td>
<td>Western Civilizations I</td>
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<td>HIST 110HC</td>
<td>Honors West. Civilizations I</td>
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<td>HIST 111 C</td>
<td>Western Civilizations II</td>
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<td>HIST 111HC</td>
<td>Honors West. Civilizations II</td>
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<td>HIST 112 C</td>
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<td>World Civilizations II</td>
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<td>HIST 113HC</td>
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<tr>
<td>HIST 160 C</td>
<td>Asian Civilization I</td>
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<td>HIST 161 C</td>
<td>Asian Civilization II</td>
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<td>HIST 163 C</td>
<td>History of Mexico</td>
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<td>HIST 165 C</td>
<td>Middle Eastern History</td>
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<td>HIST 275 C</td>
<td>History of California</td>
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<td>INDS 100 C</td>
<td>Humanities: Ancient &amp; Medieval</td>
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<td>INDS 101 C</td>
<td>Humanities: Renaissance - Present</td>
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<td>JAPN 101 C</td>
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<td>JAPN 102 C</td>
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<td>JAPN 125 C</td>
<td>Japanese Culture through Film</td>
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<td>JAPN 200 C</td>
<td>Conversational Japanese</td>
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<td>JAPN 203 C</td>
<td>Intermediate Japanese III</td>
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<td>JAPN 204 C</td>
<td>Intermediate Japanese IV</td>
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<tr>
<td>PHIL 100 C</td>
<td>Introduction to Philosophy</td>
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<td>PHIL 100HC</td>
<td>Honors Intro to Philosophy</td>
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<tr>
<td>PHIL 101 C</td>
<td>Intro to Religious Studies</td>
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<td>PHIL 110 C</td>
<td>Religions of the East</td>
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<td>PHIL 120 C</td>
<td>Religions of the West</td>
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<tr>
<td>PHIL 135 C</td>
<td>Social &amp; Political Philosophy</td>
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<td>PHIL 160 C</td>
<td>Introduction to Ethics</td>
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<tr>
<td>PHIL 165 C</td>
<td>Business &amp; Professional Ethics</td>
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<td>PHIL 201 C</td>
<td>History of Philosophy: Ancient &amp; Medieval</td>
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<td>PHIL 202 C</td>
<td>History of Philosophy: Modern &amp; Contemporary</td>
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<td>PHIL 225 C</td>
<td>Jesus and his Interpreters</td>
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<td>PHIL 230 C</td>
<td>Philosophy of Religion</td>
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<td>PORT 101 C</td>
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<td>PORT 102 C</td>
<td>Elementary Portuguese II</td>
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D. SOCIAL SCIENCES (9 Unit minimum)

REQUIREMENT: Courses must be taken in AT LEAST TWO different disciplines.

D1 ANTHROPOLOGY AND ARCHAEOLOGY

ANTH 102 C Cultural Anthropology 3
ANTH 102HC Honors Cultural Anthropology 3
ANTH 104 C Comparative Cultures 3
ANTH 105 C Language and Culture 3
ANTH 106 C World Prehistory 3
ANTH 107 C Magic, Witchcraft and Religion 3
ANTH 121 C Native North America 3
ANTH 203 C Introduction to Archaeology 3
ANTH 210 C Intro to Forensic Anthropology (pending) 3

D2 ECONOMICS

ECON 100 C Principles of Economics-Macro 3
ECON 100HC Honors Principles of Economics 3
ECON 105 C Principles of Economics-Micro 3
ECON 105HC Honors Principles of Economics 3
ECON 110 C Survey of Economics 3
ECON 260 C Economic Geography 3
GEOG 260 C Economic Geography 3

D3 ETHNIC STUDIES

ETHS 100 C American Ethnic Studies 3
ETHS 100HC Honors American Ethnic Studies 3
ETHS 129 C Intro to African-Amer. Studies 3
ETHS 130 C African-American History I 3
ETHS 131 C African-American History II 3
ETHS 150 C Intro to Chicana/o Studies 3
ETHS 151 C Chicana/o History I 3
ETHS 152 C Chicana/o History II 3
ETHS 160 C Native American History 3
ETHS 170 C Intro to Asian-Amer. Studies 3
ETHS 171 C Asian American History 3
HS 277 C Cultural Awareness & Health Care 3
PSY 237 C Cross-Cultural Relationships 3
SOC 237 C Cross-Cultural Relationships 3

D4 GENDER STUDIES

HIST 270 C Women in United States History 3
POSC 101 C Gender and American Politics 3
SOC 225 C Sociology of Women 3

D5 GEOGRAPHY

ECON 260 C Economic Geography 3
GEOG 100 C World Geography 3
GEOG 100HC Honors World Geography 3
GEOG 130 C California Geography 3
GEOG 140 C Weather and Climate Specialties 3
GEOG 160 C Cultural Geography 3
GEOG 260 C Economic Geography 3

CSU GRADUATION REQUIREMENT IN U.S. HISTORY, CONSTITUTION AND AMERICAN IDEALS:

One course is to be taken from Group A, and one course from Group B.

Group A: POSC 100 C, POSC 100HC, POSC 101C
Group B: ETHS 100 C, ETHS 100HC, ETHS 130 C, 131 C, ETHS 160 C, HIST 162AC, 162BC, 170 C, 170HC, 171 C, 171HC

D6 HISTORY

ETHS 100 C American Ethnic Studies 3
ETHS 100HC Honors American Ethnic Studies 3
ETHS 130 C African-American History I 3
ETHS 131 C African-American History II 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 160 C Native American History 3
ETHS 171 C Asian-American History 3
HIST 110 C Western Civilizations I 3
HIST 110HC Honors West. Civilizations I 3
HIST 111 C Western Civilizations II 3
HIST 111HC Honors West. Civilizations II 3
HIST 112 C World Civilizations I 3
HIST 112HC Honors World Civilizations I 3
HIST 113 C World Civilizations II 3
HIST 113HC Honors World Civilizations II 3
HIST 135 C African History 3
HIST 142 C History of Latin America I 3
HIST 143 C History of Latin America II 3
HIST 151 C Survey of British History I 3
HIST 152 C Survey of British History II 3
HIST 160 C Asian Civilization I 3
HIST 161 C Asian Civilization II 3
HIST 162AC History of the Americas 3
HIST 162BC History of the Americas 3
HIST 163 C History of Mexico 3
HIST 165 C Middle Eastern History 3
HIST 170 C History of the United States 3
HIST 170HC Honors History of the U.S. 3
HIST 171 C History of the United States 3
HIST 171HC Honors History of the U. S. 3
HIST 270 C Women in United States History 3
HIST 275 C History of California 3

D7 INTERDISCIPLINARY SOCIAL OR BEHAVIORAL SCIENCE

COMM 120 C Intercultural Communication 3
ETHS 235 C The Civil Rights Movement 3
HUSR 200 C Introduction to Human Services 3
JOUR 110 C Global Media 3
JOUR 118 C Introduction to Broadcasting 3
MGT 161 C Introduction to Business 3

D8 POLITICAL SCIENCE, GOVERNMENT and LEGAL INSTITUTIONS

POSC 100 C United States Government 3
POSC 100HC Honors U.S. Government 3
POSC 101 C Gender and American Politics 3
POSC 120 C Political Theory 3
POSC 130 C Political Communication 3
POSC 200 C Intro to Political Science 3
POSC 209 C Urban Politics 3
POSC 210 C Contemporary Political Issues 3
POSC 215 C Comparative Politics 3
POSC 216 C Politics of the Middle East 3
POSC 230 C International Relations 3

D9 PSYCHOLOGY

HUSR 255 C Psychology of Aging 3
PSY 101 C General Psychology 3
PSY 101HC Honors General Psychology 3
PSY 110 C Applied Psychology 3
PSY 129 C Developmental Psychology 3
PSY 145 C Child Psychology 3
PSY 202 C Research Methods in Psychology 4
PSY 221 C The Brain and Behavior 3
PSY 222 C Abnormal Psychology 3
PSY 240 C Child Development & Education 3
PSY 251 C Social Psychology 3
PSY 255 C Psychology of Aging 3
**D10 SOCIOLOGY AND CRIMINOLOGY**

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<tr>
<td>HUSR 292 C</td>
<td>Introduction to Criminology</td>
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<tr>
<td>SOC 101 C</td>
<td>Introduction to Sociology</td>
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<td>SOC 102 C</td>
<td>Social Problems</td>
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<td>SOC 225 C</td>
<td>Sociology of Women</td>
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<td>SOC 250 C</td>
<td>Sociology of Aging</td>
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<tr>
<td>SOC 275 C</td>
<td>Marriage and Family</td>
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<td>SOC 277 C</td>
<td>Sociology of Religion</td>
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<td>Introduction to Criminology</td>
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**E. LIFELONG LEARNING AND SELF-DEVELOPMENT**

(3 Unit minimum)

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<td>Computer Information Systems</td>
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<td>COMM 105 C</td>
<td>Interpersonal Communication</td>
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<td>COUN 105 C</td>
<td>Stress Management</td>
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<td>Career Exploration</td>
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<tr>
<td>COUN 144 C</td>
<td>Women and Careers</td>
<td>2</td>
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<tr>
<td>COUN 145 C</td>
<td>Changing Careers</td>
<td>2</td>
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<tr>
<td>COUN 146 C</td>
<td>Decision Making</td>
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<tr>
<td>COUN 150 C</td>
<td>Academic and Life Success</td>
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<tr>
<td>COUN 151 C</td>
<td>Career and Life Planning</td>
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<td>HRC 100 C</td>
<td>Nutrition</td>
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<td>HUSR 250 C</td>
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<td>HUSR 255 C</td>
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<tr>
<td>PE 100 C</td>
<td>Physical Ed Activity Classes</td>
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<td>through One (1) Unit limit</td>
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<td>PE 222 C</td>
<td>CSU Certification</td>
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<td>PE 231 C</td>
<td>Elementary School Movement-PE</td>
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<td>PE 234 C</td>
<td>Contemporary Personal Health</td>
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<td>PE 235 C</td>
<td>First Aid, CPR &amp; Emergencies</td>
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<td>PE 237 C</td>
<td>Lifesaving</td>
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<td>PE 242 C</td>
<td>Wheelchair Athletics</td>
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<td>PE 244 C</td>
<td>Human Performance</td>
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<td>PSY 120 C</td>
<td>Human Sexuality</td>
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<td>PSY 145 C</td>
<td>Child Psychology</td>
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<td>PSY 240 C</td>
<td>Child Development &amp; Education</td>
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<td>PSY 255 C</td>
<td>Psychology of Aging</td>
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<tr>
<td>SOC 120 C</td>
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**INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)**

The Intersegmental General Education Transfer Curriculum (IGETC) is a general education program which community college transfer students may use to fulfill lower division general education requirements for the California State University (CSU) or University of California (UC) system. Completion of IGETC eliminates the need to take additional lower division general education courses after transfer. Students approaching readiness for transfer who are unable to complete one or two IGETC courses that are not required for admission to the university may request to complete IGETC after transferring. See a counselor for more information.

IGETC is accepted by the University of California, California State University, and by many private institutions. Students wishing to transfer to the University of California or who are undecided about their transfer institution should consult a counselor before choosing this plan.

See your counselor for more information.

Students must apply for IGETC certification (full or partial) in the Admissions and Records Office. Courses will be certified ONLY if they are on the official IGETC list during the catalog year they are taken. In addition to the course requirements for each subject area, full certification for the CSU must include completion of the Oral Communications requirement. With the UC, Oral Communications is NOT required, but the certification must include satisfactory completion of the Language Other Than English proficiency requirements. A course or sequence used to satisfy a requirement in one area may not be used to satisfy a requirement in another area. All courses must be completed with a “C” or better. Students must apply for IGETC Certification through the Admissions and Records Office during the semester in which requirements will be completed.

While IGETC is popular with transfer students, it may not be the best choice for you. Depending on your major, it may best to follow the UC campus GE pattern. The UC Transfer Preparation Paths at UCTransfer.org and ASSIST Exploring Majors feature at www2.assist.org include information about the specific UC majors that do not recommend IGETC. Students should see a counselor for advice and more complete information on the IGETC program.

*The courses on this list are approved at the time of printing. Check with a counselor or www.ASSIST.org for the most recent list of approved courses.*

**AREA 1 ENGLISH COMMUNICATION**

**CSU:** 3 courses required, one from each group below

**UC:** 2 courses required, one each from Group A and B.

**GROUP A: ENGLISH COMPOSITION (Code = IA)**

1 course, 3 semester units, (4-5 quarter units)

- ENGL 100 C College Writing 3
- ENGL 100HC Honors College Writing 3

**GROUP B: CRITICAL THINKING - ENGLISH COMPOSITION (Code = 1B)**

1 course, 3 semester units, (4-5 quarter units)

- ENGL 103 C Critical Reasoning and Writing 3
- ENGL 104 C Critical Analysis & Literature 4
- ENGL 104HC Honors Critical Analysis & Literature 4
- PHIL 172 C Critical Thinking/Writing 3

**GROUP C: ORAL COMMUNICATION (Code = 1C) (CSU requirement only)**

1 course, 3 semester units, (4-5 quarter units)

- COMM 100 C Human Communication 3
- COMM 100HC Honors Human Communication 3

**AREA 2 MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING**

1 course, 3 semester units, (4-5 quarter units)

- MATH 115 C Finite Mathematics 3

**MATH (Code = 2A)**

- MATH 100 C Liberal Arts Mathematics 3
- MATH 120 C Intro Probability & Statistics 4
- MATH 130 C Survey of Calculus 4
- MATH 141C College Algebra 4
- MATH 150AC Calculus I 4
- MATH 150BC Calculus II 4
- MATH 250AC Multivariable Calculus 4
- MATH 250BC Linear Algebra/Differential Eq 4
- PSY 161 C Probability & Stats-Social Sci 4
- SOC 161 C Probability & Stats-Social Sci 4
**AREA 3 ARTS AND HUMANITIES**
At least 3 courses, with at least one from the Arts and one from the Humanities; 9 semester units, (12-15 quarter units)

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<td>ART 100 C</td>
<td>Fundamentals of Art</td>
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<td>ART 110 C</td>
<td>Introduction to Art</td>
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<tr>
<td>ART 111 C</td>
<td>Survey of Art History</td>
<td>3</td>
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<tr>
<td>+ ART 112 C</td>
<td>Survey of Art History</td>
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<tr>
<td>+ ART 112HC</td>
<td>Honors Survey of Art History</td>
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<td>ART 114 C</td>
<td>Modern Art History</td>
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<td>ART 216 C</td>
<td>Latin American Art (pending)</td>
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<td>DANC 101 C</td>
<td>Multicultural Dance in the U.S.</td>
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<td>DANC 120 C</td>
<td>Dance History</td>
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<tr>
<td>+ ENGL 125 C</td>
<td>The Film</td>
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<tr>
<td>+ ENGL 125HC</td>
<td>Honors Film</td>
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<td>MUS 103AC</td>
<td>Theory &amp; Musicianship I</td>
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<td>MUS 113 C</td>
<td>Jazz History</td>
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<td>MUS 116 C</td>
<td>Music Appreciation</td>
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<td>MUS 117 C</td>
<td>American Popular Music</td>
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<td>+ MUS 118 C</td>
<td>Introduction to Opera</td>
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<td>+ MUS 118HC</td>
<td>Honors Introduction to Opera</td>
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<td>MUS 119 C</td>
<td>History of Rock Music</td>
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<tr>
<td>MUS 120 C</td>
<td>Survey of Music History</td>
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<tr>
<td>THEA 100 C</td>
<td>Introduction to Theater</td>
<td>3</td>
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<tr>
<td>+ THEA 107 C</td>
<td>American Ethnic Theater</td>
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<tr>
<td>+ THEA 107HC</td>
<td>Honors Diversity in American Theater</td>
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<td>ENGL 102 C</td>
<td>Introduction to Literature</td>
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<td>+ ENGL 110 C</td>
<td>Humanities: Ancient &amp; Medieval</td>
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<tr>
<td>+ ENGL 111 C</td>
<td>Humanities: Renaissance - Present</td>
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<td>ENGL 208 C</td>
<td>Asian-American Literature</td>
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<td>ENGL 211 C</td>
<td>English Literature to 1760</td>
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<td>ENGL 212 C</td>
<td>English Literature since 1760</td>
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<td>ENGL 221 C</td>
<td>American Literature - Part One</td>
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<td>ENGL 222 C</td>
<td>American Literature - Part Two</td>
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<tr>
<td>+ ENGL 234 C</td>
<td>Shakespeare</td>
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<td>+ ENGL 234HC</td>
<td>Honors Shakespeare</td>
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<tr>
<td>ENGL 239 C</td>
<td>Survey Children’s Literature</td>
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<td>ENGL 247 C</td>
<td>Multicultural Literature</td>
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<td>ENGL 255 C</td>
<td>African-American Literature</td>
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<td>ENGL 256 C</td>
<td>African-American Literature II</td>
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<td>* ENTH 130 C</td>
<td>African-American History I</td>
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<td>ENTH 131 C</td>
<td>African-American History II</td>
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<td>Chicana/o History I</td>
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<td>ENTH 152 C</td>
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<td>FREN 204 C</td>
<td>Intermediate French IV</td>
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<td>Honors West. Civilizations I</td>
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<td>*+ HIST 111 C</td>
<td>Western Civilizations II</td>
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<td>+ INDS 100 C</td>
<td>Humanities: Ancient &amp; Medieval</td>
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<td>Humanities: Renaissance - Present</td>
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<td>JAPN 204 C</td>
<td>Intermediate Japanese IV</td>
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**AREA 4 SOCIAL AND BEHAVIORAL SCIENCES**
At least 3 courses from at least two disciplines or an interdisciplinary sequence; 9 semester units, (12-15 quarter units)

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<td>Honors Intro to Philosophy</td>
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<td>PHIL 101 C</td>
<td>Intro to Religious Studies</td>
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<td>PHIL 110 C</td>
<td>Religions of the East</td>
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<td>PHIL 120 C</td>
<td>Religions of the West</td>
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<td>PHIL 135 C</td>
<td>Social &amp; Political Philosophy</td>
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<td>PHIL 160 C</td>
<td>Introduction to Ethics</td>
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<tr>
<td>PHIL 201 C</td>
<td>History of Phil: Ancient &amp; Medieval</td>
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<td>PHIL 202 C</td>
<td>History of Phil: Modern &amp; Contemporary</td>
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<td>PHIL 225 C</td>
<td>Jesus and His Interpreters</td>
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<td>Philosophy of Religion</td>
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<td>SPAN 203 C</td>
<td>Intermediate Spanish III</td>
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**B. HUMANITIES (Code = 3B)**

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<td>Anthropology and Archaeology</td>
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<td>Honors Cultural Anthropology</td>
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<tr>
<td>ANTH 104 C</td>
<td>Comparative Cultures</td>
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<td>ANTH 105 C</td>
<td>Language and Culture</td>
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<tr>
<td>ANTH 106 C</td>
<td>World Prehistory</td>
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<tr>
<td>ANTH 107 C</td>
<td>Magic, Witchcraft and Religion</td>
<td>3</td>
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<tr>
<td>+ ANTH 121 C</td>
<td>Native North America</td>
<td>3</td>
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<tr>
<td>+ ANTH 123 C</td>
<td>Introduction to Archaeology</td>
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**C. ETHNIC STUDIES (Code = 4C)**

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<td>ETHS 100 C</td>
<td>American Ethnic Studies</td>
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<td>ETHS 100HC</td>
<td>Honors American Ethnic Studies</td>
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<tr>
<td>ETHS 129 C</td>
<td>Intro to African- American Studies</td>
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<tr>
<td>+ ETHS 130 C</td>
<td>African-American History I</td>
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<td>ETHS 131 C</td>
<td>African-American History II</td>
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<td>* ETHS 151 C</td>
<td>Chicana/o History I</td>
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<td>Chicana/o History II</td>
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<tr>
<td>ETHS 154 C</td>
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<td>ETHS 160 C</td>
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<tr>
<td>ETHS 170 C</td>
<td>Intro to Asian-Amer. Studies</td>
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<td>ETHS 171 C</td>
<td>Asian-American History</td>
<td>3</td>
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<tr>
<td>+ PSY 237 C</td>
<td>Cross-Cultural Relationships</td>
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<td>+ SOC 237 C</td>
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**D. GENDER STUDIES (Code = 4D)**

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<tr>
<td>POSC 101 C</td>
<td>Gender and American Politics</td>
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**E. GEOGRAPHY (Code = 4E)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>+ ENTH 260 C</td>
<td>Economic Geography</td>
<td>3</td>
</tr>
<tr>
<td>+ ENTH 100 C</td>
<td>World Geography</td>
<td>3</td>
</tr>
<tr>
<td>+ ENTH 100HC</td>
<td>Honors World Geography</td>
<td>3</td>
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<tr>
<td>GEOG 130 C</td>
<td>California Geography</td>
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<tr>
<td>GEOG 140 C</td>
<td>Weather and Climate</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 160 C</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>+ GEOG 260 C</td>
<td>Economic Geography</td>
<td>3</td>
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</tbody>
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AREA 5 PHYSICAL AND BIOLOGICAL SCIENCES
At least 2 courses required, one Physical Science course and one Biological Science course; at least one must include a laboratory. Courses in bold contain a laboratory component. 7 - 9 semester units, (9 - 12 quarter units).

PHYSICAL SCIENCES (Code = 5A)
+ ASTR 116 C Introduction to Astronomy 3
+ ASTR 101 HC Honors Intro to Astronomy 3
+ ASTR 117 C Astronomy Lab 1
+ ASTR 117HC Honors Astronomy Lab 1
+ CHEM 100 C Chemistry for Daily Life 4
CHEM 101 C Introduction to Chemistry 5
CHEM 103 C Chemistry in a Changing World 5
+ CHEM 103HC Honors Chem in a Changing World 3
+ CHEM 107 C Foundations of Chemistry 5
CHEM 111AC General Chemistry I 5
CHEM 111BC General Chemistry II 5
GEOG 102 C Physical Geography - Lab 1
GEOG 102LC Physical Geography - Lab 2
+ GEO 100 C Physical Geology 3
+ GEO 100HC Honors Physical Geology 3
+ GEO 101 C Physical Geology - Lab 1
+ GEO 101HC Honors Physical Geology Lab 1
GEOL 101 C Physical Geology - Lab 1
+ GEOL 101HC Honors Physical Geology Field/Lab 1
GEOL 115 C Physical Geology Field/Lab 1
GEOL 120 C Geology of California 3
GEOL 125 C Natural Disasters 3
GEOL 130 C Intro to Oceanography 3
GEOL 131 C Intro to Oceanography - Lab 1
+ GEO 190 C Environmental Geology 4
+ PHYS 130 C Principles of Physics 4
+ PHYS 201 C College Physics 4
+ PHYS 202 C College Physics 4
+ PHYS 210 C Physics 4
+ PHYS 211 C Physics 4
+ PHYS 221 C General Physics 4
+ PHYS 222 C General Physics 4
+ PHYS 223 C General Physics 4

BIOLOGICAL SCIENCES (Code 5B)
ANTH 101 C Biological Anthropology 3
ANTH 101HC Honors Biological Anthropology 3
ANTH 101LC Biological Anthropology Lab 1
+ BIOL 101 C General Biology 5
+ BIOL 101HC Honors General Biology 5
BIOL 102 C Human Biology 3
BIOL 103 C Environmental Science 3
+ BIOL 111 C Principles of Biology 1 3
+ BIOL 111HC Principles of Biology 1 Lab 3
+ BIOL 113 C Principles of Biology 2 3
+ BIOL 114 C Principles of Biology 2 Lab 2
BIOL 122 C Marine Biology 5
BIOL 230 C General Anatomy 5
BIOL 241 C General Human Anatomy 4
+ BIOL 241 C General Human Physiology 4

LANGUAGE OTHER THAN ENGLISH (Code = 6A)
(UC Requirement only) Complete one of the following:
1. Complete two years of high school foreign language in the same language with a grade of “C” or better.
2. Earn a score of 3 or higher on the Foreign Language Advanced Placement test.
3. Earn a minimum score of 550 on the SAT II Subject Test in languages other than English.
4. Complete course 102 C (102HC) in a Foreign Language at Cypress College or equivalent courses at another college or university.
5. Completion with “C” grade or better of 2 years of formal schooling at the 6th grade level or higher at an institution where the language of instruction is not English.
6. Earn a score of 5 or higher on the International Baccalaureate Higher Level Examination in a language other than English.
7. Earn an A, B, or C on LOTE “O” level exam.
8. Earn a score of 5, 6, or 7 on LOTE International “A” level exam.
9. California Community College faculty (See counselor for approved CCC faculty list).
10. A higher level foreign language course can be used to meet language proficiency. Students completing such courses will satisfy both the 3B area and validate the proficiency level requirement. Example SPAN 203 C is a higher level course that satisfies LOTE.
Cypress College courses that meet the proficiency Level:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHIN 102 C</td>
<td>Elementary Chinese-Mandarin I</td>
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<tr>
<td>FREN 102 C</td>
<td>Elementary French I</td>
<td>5</td>
</tr>
<tr>
<td>JAPN 102 C</td>
<td>Elementary Japanese I</td>
<td>5</td>
</tr>
<tr>
<td>PORT 102 C</td>
<td>Elementary Portuguese I</td>
<td>5</td>
</tr>
<tr>
<td>+ SPAN 102 C</td>
<td>Elementary Spanish II</td>
<td>5</td>
</tr>
<tr>
<td>+ SPAN 102HC</td>
<td>Honors Elementary Spanish II</td>
<td>5</td>
</tr>
<tr>
<td>+ SPAN 201 C</td>
<td>Spanish for Spanish Speakers</td>
<td>5</td>
</tr>
<tr>
<td>+ SPAN 101 C and 102 C combined are equivalent to SPAN 201 C</td>
<td></td>
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</tbody>
</table>

**CSU GRADUATION REQUIREMENT IN U.S. HISTORY, CONSTITUTION AND AMERICAN IDEALS** - Not part of IGETC; may be completed prior to transfer; 6 units, one course from Group 1 and one course from Group 2. CSU campuses have the discretion whether to allow courses used to satisfy this American Institutions graduation requirement for CSU to double-count in Area 3B or 4F. See a counselor for more information.

**POLITICAL SCIENCE (Code = 7A)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>* POSC 100 C</td>
<td>United States Government</td>
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<tr>
<td>* POSC 100HC</td>
<td>Honors U.S. Government</td>
<td>3</td>
</tr>
<tr>
<td>* POSC 101 C</td>
<td>Gender and American Politics</td>
<td>3</td>
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**HISTORY (Code = 7B)**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ETHS 100 C</td>
<td>American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 100HC</td>
<td>Honors American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 130 C</td>
<td>African-American History I</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 131 C</td>
<td>African-American History II</td>
<td>3</td>
</tr>
<tr>
<td>* ETHS 160 C</td>
<td>Native American History</td>
<td>3</td>
</tr>
<tr>
<td>* HIST 162AC</td>
<td>History of the Americas</td>
<td>3</td>
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<tr>
<td>* HIST 162BC</td>
<td>History of the Americas</td>
<td>3</td>
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<tr>
<td>* HIST 170 C</td>
<td>History of the United States</td>
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<tr>
<td>* HIST 170HC</td>
<td>Honors History of the United States</td>
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<tr>
<td>* HIST 171 C</td>
<td>History of the United States</td>
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</tr>
<tr>
<td>* HIST 171HC</td>
<td>Honors History of the United States</td>
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</tbody>
</table>

**GENERAL EDUCATION CERTIFICATION (GE)**

Students planning to graduate from the California State University or University of California systems must complete a minimum number of general education breadth courses. Cypress College is permitted to certify completion of the lower division general education requirement. Certification is not automatic. To meet general education requirements and obtain certification, students must:

- Complete the pattern of general education courses approved for Cypress College.
- Apply for GE certification through the Admissions and Records Office by the published deadline during the semester in which requirements will be completed or thereafter. Students with transcripts from other educational institutions should see a counselor to obtain a supplemental “pass along” form which must be attached to the certification application. Courses completed at educational institutions outside the United States cannot be used for “pass along” and these courses must be evaluated by the university during the application process. Students do not have to be currently enrolled in Cypress College to apply for GE certification.

**LEGEN D**

* Course is listed in more than one area but shall not be certified in more than one area.

+ Transfer credit is limited by either UC or CSU or both.

Please consult with a counselor, or the Transfer Center located in the Student Center Building - 2nd floor. Duplicate credit is not awarded for a non-honors section and an honors section of the same class.

**NOTE:**

Courses approved for Fall, 1991 may be taken PRIOR TO FALL, 1991.

Courses approved for Fall, 1992 or later may be certified only if taken when the course is on the official IGETC list.

Check with the Transfer Center or your counselor for a list of the courses which have been added or deleted since the original list was published in 1991.
GENERAL EDUCATION AND BASIC SKILLS PROGRAM LEARNING OUTCOMES

The General Education and Basic Skills Program is considered as one complete program. The General Education and Basic Skills Student Learning Outcomes are broad categories that include courses approved for the Cypress College AA/AS Degree General Education, the California State University General Education, and the Intersegmental General Education Transfer Curriculum (IGETC) pathways, and the prerequisite basic skills courses. The Cypress College Institutional Learning Outcomes adopted in Spring 2004 were reviewed and written as statements rather than topics in four major areas or competencies. Portions of Cabrillo College’s General Education and Basic Skills SLOs were used with permission.

I. Breadth of Knowledge and Experiences

Students will possess a breadth of knowledge and experiences from the following areas:

A. Humanities and the Arts
   1. Aesthetic Awareness: Examine the visual arts, dance, music, and/or literature of diverse cultures.
   2. Critical Analysis: Assess the methods used to create art and interpret its literal and/or symbolic meaning.
   3. Creativity: Engage in artistic creative endeavors.

B. Natural Sciences and Mathematics
   1. Scientific Principles: Demonstrate an understanding of scientific principles that govern the natural and mathematical universe.
   2. The Scientific Method: Apply scientific processes to solve problems and measure and observe natural phenomena, including the design, performance, and analysis of experiments.

C. Social Sciences
   1. Cultural Competence: Demonstrate knowledge and understanding of the feelings, opinions, and/or values of other people and cultures.
   2. Global Perspective: Recognize important economic, political, social, and historical issues and values in one’s own community, state, country, and/or the world.
   3. Human Experience: Use qualitative and/or quantitative methods to study the human aspects of the world.

D. Physical Education
   1. Fitness: Understand the development, care, and exercise of the human body through movement.
   2. Health and Nutrition: Understand and apply the principles of nutrition, hygiene, and safety to develop mental and physical well-being.

II. Communication

Students will communicate effectively, which means the ability to

A. Read:
   1. Comprehend, interpret, and/or evaluate various written information.

B. Write:
   1. Communicate thoughts, ideas, information, and messages in writing.
   2. Compose and create documents with correct grammar, spelling, punctuation, and appropriate language, style, and format.
   3. Check, edit, and revise written work for correct information, appropriate emphasis, form, style, and grammar.

C. Listen:
   1. Sense and appropriately perceive and respond to verbal and/or nonverbal messages.

D. Communicate:
   1. Organize ideas and communicate verbal and/or non-verbal messages appropriate to the audience and the situation.
   2. Communicate clearly and ask relevant questions in conversations, discussions, group activities, and/or public speaking.

III. Critical Thinking and Information Competency

Students will think critically, which is characterized by the ability to

A. Analyze:
   1. Recognize and apply rules and principles to new situations.
   2. Use logic (induction and deduction) to draw conclusions from information given.
   3. Differentiate between facts, inferences, assumptions, and/or conclusions.

B. Compute:
   1. Use basic numerical concepts, such as whole numbers, percentages, and estimates of math without a calculator.
   2. Use tables, graphs, charts, and diagrams to explain concepts or ideas.
   3. Use basic geometrical shapes, such as lines, angles, shapes, and space.

C. Research:
   1. Effectively and ethically acquire, organize, analyze, synthesize, evaluate and communicate information.
   2. Determine which technology resources will produce the desired results.

D. Solve Problems:
   1. Define a problem and identify its components.
   2. Create a plan of action to resolve the issue.
   3. Execute and evaluate the effectiveness of the plan.

IV. Self Development

Students will develop self-awareness and responsibility by means of the following:

A. Self Integration
   1. Understand the person as an integrated physiological, social, and psychological being.

B. Personal Responsibility
   1. Develop skills and identify values for personal growth and life-long learning.

C. Global Citizenship
   1. Understand the interconnection between current events, ethics, and personal and societal choices within our world.
Programs

Course Descriptions
# Course Prefixes

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Description</th>
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<tbody>
<tr>
<td>ACCT</td>
<td>Accounting</td>
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<tr>
<td>ACG</td>
<td>Art - Computer Graphics</td>
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<td>AC/R</td>
<td>Air Conditioning/Refrigeration</td>
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<td>ACR</td>
<td>Automotive Collision Repair</td>
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<td>AJ</td>
<td>Administration of Justice</td>
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<td>ANTH</td>
<td>Anthropology</td>
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<td>AT</td>
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<td>CHIN</td>
<td>Chinese</td>
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<td>CIS</td>
<td>Computer Information Systems (Business)</td>
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<td>COMM</td>
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<td>COUN</td>
<td>Counseling and Student Development</td>
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<td>CSCI</td>
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<td>Court Reporting</td>
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<td>Ethnic Studies</td>
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<td>HS</td>
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<td>LAR</td>
<td>Learning and Academic Resources</td>
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<tr>
<td>RADT</td>
<td>Radiologic Technology</td>
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<td>RE</td>
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<td>Recreation</td>
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<td>Welding</td>
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<tr>
<td>WKEX</td>
<td>Work Experience</td>
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</table>
Standard Definitions

Definition of Advisory
When a course has an advisory, it means that a student is recommended to have certain preparation before entering the course. The preparation is considered advantageous to a student’s success in the course. Since the preparation is recommended, the student is advised, but not required, to meet the condition before or in conjunction with enrollment in the course or educational program (eligibility for ENGL 100 C is recommended for POSC 100 C).

Definition of Articulation
Articulation agreements define how courses will transfer from one institution to another. Cypress College maintains major and/or course-to-course articulation agreements with most public universities and many independent colleges and universities in the state of California. The agreements with the public institutions are listed on www.assist.org which is the official repository for articulation in the state. Many independent institutions have articulation information available on their websites. In addition, agreements with public and independent institutions are located in the Transfer Center and Counseling Center.

Definition of ASSIST
ASSIST is a computerized student-transfer information system that can be accessed over the World Wide Web. It displays reports of how course credits earned at one California college or university can be applied when transferred to another. ASSIST is the official repository of articulation for California’s colleges and universities and therefore provides the most accurate and up-to-date information available about student transfer in California. ASSIST is available at: www.assist.org.

Students should consult the ASSIST database for specific information on course agreements. The counselors and Transfer Center staff can help students interpret this information.

Definition of CAN
The California Articulation Number (CAN) System has served as a statewide numbering system independent from course numbers assigned by local colleges. CAN numbers had been used in the past to signal that a participating California college and university had assigned by local colleges. CAN numbers had been used in the past to signal that a participating California college and university had determined that courses offered by other campuses were compatible in content and scope to courses offered on that campus.

Beginning fall 2009, CAN numbers will no longer be used for this purpose; the state-wide review of CAN courses was discontinued several years ago when the California State University system withdrew from active participation. Consequently, all references to CAN with the exception of this statement have been removed from the catalog. You may contact the Articulation Office/Transfer Center with any questions at: 714-484-7129.

Definition of Corequisite
When a course has a corequisite, it means that a student is required to take another course concurrent with or prior to enrollment in the course. Knowing the information presented in the corequisite course is considered necessary in order for a student to be successful in the course (completion of, or concurrent enrollment in, MATH 040 C is required for CHEM 107 C).

It is the student’s obligation to know and meet course corequisites. These are stated in the course description section of the Class Schedule and the current College Catalog. The student may be required to file proof of meeting corequisites on the first day of class.

Definition of Electives
An elective is a course not required for graduation or for the fulfillment of requirements for a program. For example, a science student might take electives from non-science areas, which might include history, art, English, music, or political science. A history student might take electives from biology, chemistry, art, music or English literature. To assist in choosing electives, a student should consult a counselor and the catalog of the college to which he/she expects to transfer.

Definition of Prerequisite
When a course has a prerequisite, it means that a student must have certain knowledge to be successful in the course. The prior knowledge may be a skill, an ability (speaks and writes Spanish fluently), a test score, or a successful completion of a prior course (must have completed ENGL 060 C with a grade of “C” or better). Completion of the prerequisite is required prior to enrolling in the course. Successful completion of a prerequisite course means that a grade of Pass, or C, or better was earned; D, F, or No Pass grades are not acceptable.

Prerequisites for all courses are explained in the Class Schedule and the current College Catalog under the listing for the class. It is the student’s obligation to know and meet course prerequisites. The student may be required to file proof of meeting prerequisites on the first day of class.

Definition of Unit
Course work at Cypress College is measured in terms of semester units. In general, a unit equals eighteen hours of lecture or fifty-four hours of laboratory work per semester. Some courses combine different types of approaches and the units are adjusted accordingly. Hours per week for short-term courses are prorated based on the semester course hours.
Description of Courses

The following section includes a description of every course which may be studied at Cypress College. The prerequisite(s) for the class is stated, if applicable.

The program of instruction related to the numbering of courses is divided into major categories:

- College and university parallel courses (transfer courses,) have title numbers ranging from 100 through 299. If appropriate to the student’s major, they usually will be accepted as transfer units to institutions of higher education for their full credit value.

- Several general education courses, in addition to occupational, vocational and technical courses will bear the title numbers ranging from 001 through 099 and generally are not transferable to institutions of higher education except as they apply to major programs in the California State Universities. Students are advised to confer with their counselors regarding the transferability of these courses to particular colleges or universities.

Students entering Cypress College should consult with college counselors in planning their programs of study. The faculty and counseling staff of Cypress College will assist students in every way possible to make wise vocational and educational plans. Students, however, must assume the responsibility for their own choices and plans.

NON-DEGREE CREDIT courses indicated as NON-DEGREE CREDIT do earn credit, but the credit is not counted toward the Associate Degree. These classes are intended to help students gain the skills they need to perform in college level degree applicable courses. NON-DEGREE CREDIT classes count toward the following categories: Athletic Eligibility, Social Security Benefits, Work Study and Financial Aid, Veterans’ Benefits, Associated Student Body Office and Full-Time Status. All other Cypress College courses are degree applicable.

UC/CSU designated courses are transferable to the campuses of the University of California and the California State University system. Those courses that are not marked UC are not transferable to the University of California campuses. Confer with a counselor for information regarding transferability of courses marked UC Limitation. Students can view a complete list of Cypress College courses that are transferable to the UC at www.assist.org.

CSU GE - These courses satisfy general education breadth requirements for California State Universities (CSU campuses).

AA GE - Courses which satisfy general education requirements for the Associate Degree.

IGETC - Intersegmental General Education Transfer Curriculum is a series of courses that Cypress College students may use to satisfy lower division general education requirements at any CSU or UC campus.

CUL DIV - Courses with the Cultural Diversity designation are ones which meet the Cypress College Cultural Diversity graduation requirement.

RDG - Courses with the Reading Proficiency designation are ones which meet the Cypress College reading proficiency graduation requirement.
Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
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</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGT 151 C</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 102 C</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 190 C</td>
<td>Accounting Sys. Design &amp; Appl.</td>
<td>3</td>
</tr>
<tr>
<td>MGT 111 C</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MGT 211 C</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>*ECON 105 C</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>*ECON 105HC</td>
<td>(3)</td>
</tr>
<tr>
<td>or</td>
<td>ECON 110 C</td>
<td></td>
</tr>
<tr>
<td>ACCT 201 C</td>
<td>Intermediate Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 011 C</td>
<td>Payroll Accounting</td>
<td>2</td>
</tr>
<tr>
<td>ACCT 202 C</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 204 C</td>
<td>Acct-Govt &amp; Nonprofit Entities</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Economics (micro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

ACCOUNTING CERTIFICATE Program Code: 1C03761

The primary emphasis of this program is to prepare the student for occupational competency.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGT 151 C</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 102 C</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 190 C</td>
<td>Accounting Sys. Design &amp; Appl.</td>
<td>3</td>
</tr>
<tr>
<td>MGT 111 C</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MGT 211 C</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>*ECON 105 C</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>*ECON 105HC</td>
<td>(3)</td>
</tr>
<tr>
<td>or</td>
<td>ECON 110 C</td>
<td></td>
</tr>
<tr>
<td>ACCT 201 C</td>
<td>Intermediate Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 011 C</td>
<td>Payroll Accounting</td>
<td>2</td>
</tr>
<tr>
<td>ACCT 202 C</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 204 C</td>
<td>Acct-Govt &amp; Nonprofit Entities</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>
ASSOCIATE IN ARTS DEGREE BUSINESS ADMINISTRATION  Program Code: 1A16599
This curriculum is designed to provide an opportunity for the business major to achieve an Associate in Arts Degree Business Administration while completing the first and second year requirements for transfer to a four-year institution. While a baccalaureate degree is recommended preparation for those considering professional careers in business administration, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work.

Students should consult a counselor and the catalog of the individual college or university to plan a program of study. The Internet site www.assist.org will also provide information for California public universities. Courses selected to fulfill the requirements of the associate degree should reflect requirements of the college to which the student plans to transfer.

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 percent 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 are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 161 C</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>*ECON 100 C</td>
<td>Principles of Economics-Macro</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Honors Principles of Economics</td>
<td>(3)</td>
</tr>
<tr>
<td>**ECON 105 C</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Honors Principles of Economics</td>
<td>(3)</td>
</tr>
<tr>
<td>**ECON 105HC</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 240 C</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>MGT 241 C</td>
<td>Legal Aspects-Business Trans.</td>
<td>(3)</td>
</tr>
<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 102 C</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>MATH 130 C</td>
<td>Survey of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 30

Electives

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 211 C</td>
<td>Writing for Business</td>
<td>3</td>
</tr>
</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Economics (macro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Economics (micro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

ACCOUNTING TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Accounting (ACCT)

ACCT 099 C  BOOKKEEPING PRINCIPLES & PRAC.  3 Units
Three hours lecture and
One hour laboratory TBA per week.
Prerequisite: ACCT 101 C. This course is a thorough study of payroll computation techniques and payroll taxes. The course is of a non-technical nature and is intended to give students a practical working knowledge of current payroll tax laws. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

ACCT 101 C  FINANCIAL ACCOUNTING  4 Units
Five hours lecture per week.
Credit by Examination
UC/CSU
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 principles including classification of accounts, recording of financial transactions, presentation of financial statements, and fundamentals of the accounting cycle as applied to service and merchandising enterprises.

ACCT 102 C  MANAGERIAL ACCOUNTING  4 Units
Five hours lecture and
One hour laboratory TBA per week.
UC/CSU
Prerequisite: ACCT 101 C, with a grade of “C” or better. Advisory: Knowledge of spreadsheet software recommended. This course provides a foundation for advanced courses in managerial accounting. Instructional topics include the application of managerial accounting to a manufacturing environment, job and process cost accounting systems, cost allocation, cost-volume-profit analysis, absorption and variable costing, differential analysis for decision making, capital investment analysis, budgeting, financial statement analysis, standard costing, and responsibility accounting in a decentralized operation. Computer applications that require knowledge of spreadsheet software are integrated into the homework. This course is required of all accounting and business administration majors. $3.00 Materials Fee – PAYABLE AT REGISTRATION.
ACCT 103 C  COMPUTERIZED ACCOUNTING
1 Unit
One hour lecture and
One hour laboratory TBA per week.
CSU
Prerequisite: ACCT 099 C or ACCT 101 C. This course introduces students to starting and using a small business computerized accounting system. Students will utilize computerized accounting software to create a chart of accounts, record journal entries, prepare financial statements, and create supporting reports useful in making business decisions. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

ACCT 112 C  INCOME TAX PROCEDURES
3 Units
Three hours lecture per week.
Prerequisite: ACCT 101 C. This course is an introduction to Federal Income Tax as applied to individuals, partnerships, and corporations. The application of laws and regulations to the preparation of income tax returns is involved.

ACCT 190 C  ACCOUNTING SYS. DESIGN & APPL.
3 Units
Three hours lecture and
One hour laboratory TBA per week.
Prerequisite: ACCT 101 C. Advisory: Knowledge of spreadsheet software recommended. The course offers the student a hands-on approach to computerized accounting. Students will explore different manual and computerized accounting systems such as General Ledger, Accounts Receivable, Accounts Payable, Payroll and Inventory. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

ACCT 201 C  INTERMEDIATE ACCOUNTING
3 Units
Three hours lecture per week.
Prerequisite: ACCT 101 C. This course covers intermediate accounting theory and practice. The subject areas include: preparation and theory of principle accounting statements; recording, valuation, and presentation of cash; temporary investments; receivables, inventories, plant and equipment, intangible assets and liabilities; stockholders equity, retained earnings and paid-in-capital, statements and financial statement analysis.

ACCT 202 C  COST ACCOUNTING
3 Units
Three hours lecture per week.
Prerequisite: ACCT 102 C with a grade of “C” or better. This course covers the nature, objectives, and procedures of cost accounting and managerial control of operations. It includes job, process, and standard costing; accounting for manufacturing overhead, direct materials and direct labor; budgeting; and cost records and reports.

ACCT 204 C  ACCT-GOVT & NONPROFIT ENTITIES
3 Units
Three hours lecture per week.
Prerequisite: ACCT 101 C. This course introduces financial accounting concepts as they apply to governmental and not-for-profit entities, such as federal, state and local governments, school districts, universities, hospitals, religious and social service organizations. The focus is on the principles and procedures of accounting, financial reporting, budgeting and auditing requirements.

ACCT 295 C  ACCOUNTING INTERNSHIP
1-4 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry/Open Exit)
One hour lecture and
Three hours 20 minutes to Thirteen hours and 20 minutes laboratory per week.
Pass/No Pass/Letter grade Option
CSU
This course is designed to give the student credit for work experience at a related occupational worksite, while being concurrently enrolled in a vocational major. For each unit of credit, a minimum of 75 paid or 60 unpaid worksite internship hours is required. The internship allows students to apply knowledge gained in college courses to an actual work setting, sample career choices and improve job-readiness skills. Supplemental reading and course assignments required.
Administration of Justice

**Division of Career Technical Education and Economic Development**

Division Dean – Steve Donley

Counselor
Jane Jepson

**Program Learning Outcomes (PLOs)**

A student that completes the Air Conditioning and Refrigeration program will have acquired a specific skill set and will have achieved the necessary competencies for HVAC/R industry employment.

**ASSOCIATE IN SCIENCE DEGREE**

AIR CONDITIONING AND REFRIGERATION

Program Code: 1S03774

This program is designed as the bridge between Engineering and Technology. It will provide students with technical skills to support engineering applications. Graduates of the program will be at the leading edge of the application of new engineering solutions to production in industry. High school preparation usually includes one year of algebra, one year of drafting, and one year of geometry.

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.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC/R 100 C</td>
<td>Refrig. Principles &amp; Practice</td>
<td>8</td>
</tr>
<tr>
<td>AC/R 105 C</td>
<td>Electricity for A/C &amp; Refrig.</td>
<td>8</td>
</tr>
<tr>
<td>AC/R 110 C</td>
<td>Air Conditioning I</td>
<td>4</td>
</tr>
<tr>
<td>AC/R 201 C</td>
<td>A/C &amp; Refrig Systems Advanced</td>
<td>4</td>
</tr>
<tr>
<td>AC/R 202 C</td>
<td>A/C &amp; Refrig Advanced-Lec/Lab</td>
<td>5</td>
</tr>
<tr>
<td>AC/R 203 C</td>
<td>Refrigeration Layout &amp; Design</td>
<td>2</td>
</tr>
<tr>
<td>AC/R 211 C</td>
<td>Air Conditioning Heat Load</td>
<td>4</td>
</tr>
<tr>
<td>AC/R 212 C</td>
<td>Mechanic Codes/Mec Cost Estim</td>
<td>5</td>
</tr>
<tr>
<td>AC/R 213 C</td>
<td>Air Conditioning Layout/Design</td>
<td>2</td>
</tr>
<tr>
<td>*PHYS 130 C</td>
<td>Principles of Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

*Prerequisite: AJ 100 C. This course is a study of the elements of crimes against persons, property and the State as they are recognized in the Penal Code and General Laws of California. Parties in crime, culpability and incomplete offenses are presented from the point of view of the Peace Officer and the Courts.

Air Conditioning and Refrigeration

**Division of Career Technical Education and Economic Development**

Division Dean – Steve Donley

Faculty
Richard Hock
Douglas Sallade
Carlos Urquidi

Counselor
Jane Jepson

Program Learning Outcomes (PLOs)

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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC/R 100 C</td>
<td>Refrig. Principles &amp; Practice</td>
<td>8</td>
</tr>
<tr>
<td>AC/R 105 C</td>
<td>Electricity for A/C &amp; Refrig.</td>
<td>8</td>
</tr>
<tr>
<td>AC/R 110 C</td>
<td>Air Conditioning I</td>
<td>4</td>
</tr>
<tr>
<td>AC/R 201 C</td>
<td>A/C &amp; Refrig Systems Advanced</td>
<td>4</td>
</tr>
<tr>
<td>AC/R 202 C</td>
<td>A/C &amp; Refrig Advanced-Lec/Lab</td>
<td>5</td>
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<tr>
<td>AC/R 203 C</td>
<td>Refrigeration Layout &amp; Design</td>
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<td>AC/R 211 C</td>
<td>Air Conditioning Heat Load</td>
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<tr>
<td>AC/R 212 C</td>
<td>Mechanic Codes/Mec Cost Estim</td>
<td>5</td>
</tr>
<tr>
<td>AC/R 213 C</td>
<td>Air Conditioning Layout/Design</td>
<td>2</td>
</tr>
<tr>
<td>*PHYS 130 C</td>
<td>Principles of Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Administrative Support – See Office Administration (OFF)

Aeronautics – See Aviation (AVIA)
### Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC 051 C</td>
<td>2</td>
</tr>
<tr>
<td>ENGT 101 C</td>
<td>3</td>
</tr>
<tr>
<td>MATH 040 C</td>
<td>4</td>
</tr>
<tr>
<td>&quot;ENGL 100 C</td>
<td>3</td>
</tr>
<tr>
<td>CIS 101 C</td>
<td>1 - 3</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units 46**

* A score of 3 or higher on the Advanced Placement (AP) Physics – B or C exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) English Language and Comp. or English Lit. and Comp. exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

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### AIR CONDITIONING AND REFRIGERATION CERTIFICATE

**Program Code: 1C03774**

Primary emphasis of this program is to prepare the student with job entry-level skills. Although further training must be done on the job, the student will have a strong background in fundamental skills of refrigeration, electricity, mathematics, communication skills, and drafting.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC/R 100 C</td>
<td>8</td>
</tr>
<tr>
<td>AC/R 110 C</td>
<td>4</td>
</tr>
<tr>
<td>AC/R 036 C</td>
<td>1</td>
</tr>
<tr>
<td>AC/R 105 C</td>
<td>8</td>
</tr>
<tr>
<td>AC/R 115 C</td>
<td>4</td>
</tr>
<tr>
<td>AC/R 037 C</td>
<td>1</td>
</tr>
<tr>
<td>AC/R 201 C</td>
<td>4</td>
</tr>
<tr>
<td>AC/R 202 C</td>
<td>5</td>
</tr>
<tr>
<td>AC/R 203 C</td>
<td>2</td>
</tr>
<tr>
<td>AC/R 211 C</td>
<td>4</td>
</tr>
<tr>
<td>AC/R 212 C</td>
<td>5</td>
</tr>
<tr>
<td>AC/R 213 C</td>
<td>2</td>
</tr>
<tr>
<td>MATH 038 C</td>
<td>4</td>
</tr>
</tbody>
</table>

**or**

- MATH 040 C | 4
- "ENGL 100 C | 3
- COMM 050 C | 3
- COMM 100 C | 3
- MCT 055 C | 3
- CIS 111 C | 3
- "PHYS 130 C | 4

### Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 030 C</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 051 C</td>
<td>2</td>
</tr>
<tr>
<td>ENGT 104 C</td>
<td>3</td>
</tr>
<tr>
<td>ENGT 140 C</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units 62**

* A score of 3 or higher on the Advanced Placement (AP) Physics – B or C exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) English Language and Comp. or English Lit. and Comp. exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

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### INDUSTRIAL TECHNOLOGY TRANSFER PROGRAM

#### AIR CONDITIONING SYSTEMS OPTION

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

### Air Conditioning and Refrigeration (AC/R)

#### AC/R 036 C REFRIGERANT TRAINING & CERTIFICATION

1 Unit

One and one half hour lecture and one half hour laboratory per week.

As mandated by the Clean Air Act of 1990, all air conditioning and refrigeration technicians that service, maintain or dispose of equipment containing regulated refrigerants must be trained and certified. Lecture and laboratory exercises handling refrigerants, refrigerant oils and refrigerant cylinders will prepare the student for refrigerant charging, refrigerant recovery and to take an optional proctored examination for technician certification under Section 608 of the Clean Air Act and industry certification for R-410A.

#### AC/R 037 C DIMENSIONAL ANALYSIS FOR AIR CONDITIONING

1 Unit

One hour lecture per week.

This course covers the application of engineering calculations as encountered by the air conditioning and refrigeration field technician, project manager and design engineer. Course includes practical application of numbers to the topics of problem solving, dimension conversion and mathematical verification, proportions and ratios, length measurements, area calculations, duct and sheet metal calculations, equivalent units of temperature measurement, discounting and field cost estimation.

#### AC/R 050 C AIR CONDITIONING AND REFRIGERATION - SPECIAL PROJECTS

1/2 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)

One and one-half hours to six laboratory hours per week depending on the units desired.

Corequisite: Completion of, or concurrent enrollment in, AC/R 101 C and AC/R 102 C, or AC/R 111 C and AC/R 112 C. This course is designed for students who have demonstrated interest and capability for increased knowledge and experience in air conditioning and refrigeration topics not ordinarily covered in the curriculum. Students will participate in independent study or research on assigned projects.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Laboratory Hours</th>
<th>CSU</th>
<th>Prerequisite/Advisory Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC/R 100 C</td>
<td>REFRIGERATION PRINCIPLES &amp; PRACTICE</td>
<td>8</td>
<td>6</td>
<td>4</td>
<td></td>
<td>This course is a basic study of the mechanical vapor compression refrigeration cycle and system components. Classes include lectures with practical demonstrations and hands-on experience including laboratory projects involving design, assembly and operation of compression mechanical systems. Topics include heat and heat transfer; basic cycle components; system accessories; brazing and piping techniques; system dehydration and charging methods.</td>
</tr>
<tr>
<td>AC/R 105 C</td>
<td>ELECTRICITY FOR AIR CONDITIONING AND REFRIGERATION</td>
<td>8</td>
<td>6</td>
<td>4</td>
<td></td>
<td>This course includes the basic electrical theory, concepts and principles as applied to air conditioning and refrigeration. Schematic reading and drawing, with laboratory project applications involving circuit wiring, the measurement of electrical quantities with electrical meters and electrical safety, will be presented.</td>
</tr>
<tr>
<td>AC/R 110 C</td>
<td>AIR CONDITIONING I</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td></td>
<td>This course is an introduction into comfort cooling and air conditioning applications with a study of the behavior of air vapor mixtures as applied to the psychrometric chart and related to the design of duct systems, emphasizing duct sizing, air distribution, fans and sheet metal techniques, as it relates to indoor air quality.</td>
</tr>
<tr>
<td>AC/R 115 C</td>
<td>HEATING SYSTEMS</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td></td>
<td>This course is a basic study of heating systems which include heat pumps, the principles of fuel combustion, combustion analysis and gas furnace heat, boiler systems and hydronic heat.</td>
</tr>
<tr>
<td>AC/R 130 C</td>
<td>PNEUMATIC CONTROL FOR A/C</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td></td>
<td>This course is designed to instruct the students in the application of air conditioning pneumatic controls as used in commercial building systems. Students will apply the theories and skills taught in the classroom on laboratory mock-ups simulating industry standards.</td>
</tr>
<tr>
<td>AC/R 131 C</td>
<td>DIRECT DIGITAL CONTROLS FOR A/C</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td></td>
<td>This course is designed to instruct the student in the application of direct digital controls as used in commercial building systems. Students will apply the theories and skills taught in the classroom on laboratory mock-ups simulating industry standards.</td>
</tr>
<tr>
<td>AC/R 140 C</td>
<td>PLUMBING PRINCIPLES/PRACTICES</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td></td>
<td>This course is designed to instruct the student in the application of plumbing technology as used in commercial building systems. Students will apply the theories and skills taught in the classroom on laboratory mock-ups simulating industry standards.</td>
</tr>
<tr>
<td>AC/R 201 C</td>
<td>AIR CONDITIONING AND REFRIGERATION SYSTEMS ADVANCED</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td>This course is an advanced course with emphasis on the refrigeration cycle. Pipe sizing, compressor sizing, h.p. requirements, single and two stage refrigeration systems, absorption systems, centrifugal systems and other advanced refrigeration systems will be included.</td>
</tr>
<tr>
<td>AC/R 202 C</td>
<td>AIR CONDITIONING AND REFRIGERATION ADVANCED - LECTURE/LABORATORY</td>
<td>5</td>
<td>3</td>
<td>2</td>
<td></td>
<td>This course is an advanced course in which the student will measure air and water flow, KW, find EER and COP. The student will wire and troubleshoot complex electrical controls for refrigeration and air conditioning systems. Psychrometric applications to air problems and system capacity will be emphasized. The student will use recovery and recycling machines, and will recover refrigerant from operating laboratory systems.</td>
</tr>
</tbody>
</table>

AC/R 111 C, AC/R 112 C, MATH 020 C. A course designed to instruct the students in the application of air conditioning pneumatic controls as used in commercial building systems. Students will apply the theories and skills taught in the classroom on laboratory mock-ups simulating industry standards. |

AC/R 203 C | REFRIGERATION LAYOUT AND DESIGN                  | 2     | 1             | 1                |                  | This course is an advanced course with emphasis on the refrigeration cycle. The student will select components and design systems, using the knowledge gained in AC/R 201 C. |
Airline and Travel Careers

Division of Career Technical Education and Economic Development

Division Dean – Steve Donley

Faculty
Kathleen Reiland

Counselor
Jane Jepson

PROGRAM LEARNING OUTCOMES (PLOs)
Airline & Travel Careers
Students who receive a certificate from the Cypress College Airline & Travel Careers Program
- Will have acquired the specified set of skills required for airline/travel employment opportunities
- Will have achieved the necessary competencies to enter the airline, cruise, travel, tourism fields
- Will be aware of additional educational and career opportunities within the above industries

AIRLINE AND TRAVEL CAREERS PROGRAM
The Airline and Travel Careers Program provides students with the customer service experiences, communication skills, professional image practice, and technical understanding necessary for pursuing a career as a flight attendant, airline customer services representative, or travel consultant.

Associate of Science Degree:
Airline Customer Services
Flight Attendant
Travel/Tourism

Certificates:
Advanced Airline Customer Services
Advanced Flight Attendant
Advanced Travel/Tourism
Basic Airline Customer Services
Basic Flight Attendant
Basic Travel/Tourism

Ancillary Certificates:
Basic Cruise Line Sales and Operations
Basic Tourism and Conference Management
Homeland Transportation Certificate

AC/R 211 C  AIR CONDITIONING HEAT LOAD
4 Units
Four hours lecture per week.
CSU
Prerequisite: AC/R 101 C, AC/R 102 C, AC/R 103 C, AC/R 111 C, AC/R 112 C. This is an advanced air conditioning class in which the student will learn how to calculate the heat load of a building.

AC/R 212 C  MECHANICAL CODES AND MECHANICAL COST ESTIMATING
5 Units
Three and one-half hours lecture and
Four and one-half hours laboratory per week.
CSU
Prerequisite: AC/R 101 C, AC/R 102 C, AC/R 111 C, AC/R 112 C and completion of, or concurrent enrollment in, AC/R 113 C. This course is an advanced lab class in which the student will develop a material and labor cost estimate and prepare construction bids for air conditioning systems. Building and mechanical codes and inspection procedures will be covered. Estimating processes by spreadsheet will be introduced.

AC/R 213 C  AIR CONDITIONING LAYOUT AND DESIGN
2 Units
One and one-half hours lecture and
One and one-half hours laboratory per week.
CSU
Prerequisite: AC/R 101 C, AC/R 102 C, AC/R 103 C, AC/R 111 C, AC/R 112 C. Corequisite: Concurrent enrollment in AC/R 211 C and completion of, or concurrent enrollment in, AC/R 113 C. This course is an advanced course in which the student will use the knowledge gained in AC/R 211 C to design an air conditioning system for a building.

AC/R 298 C  AIR CONDITIONING/REFRIGERATION SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a course for students who wish to increase their knowledge of Air Conditioning and Refrigeration. Various topics will be offered. Unit credit may range from ½ to 12 units in any given semester. Consult the class schedule to verify credit for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.
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 percent 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:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 050 C</td>
<td>Special Projects—Airline</td>
<td>2</td>
</tr>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
<td>3</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific</td>
<td>3</td>
</tr>
<tr>
<td>ATC 182 C</td>
<td>Cultural Tourism</td>
<td>3</td>
</tr>
<tr>
<td>ATC 183 C</td>
<td>Customer Care: Airline/Travel</td>
<td>3</td>
</tr>
<tr>
<td>ATC 191 C</td>
<td>Airline Reservations: APOLLO</td>
<td>3</td>
</tr>
<tr>
<td>ATC 192 C</td>
<td>Airline Reservations: SABRE</td>
<td>3</td>
</tr>
<tr>
<td>ATC 270 C</td>
<td>Airline Operations</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>36</td>
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</table>

Electives

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 050 C</td>
<td>Special Projects—Airline</td>
<td>2</td>
</tr>
<tr>
<td>ATC 112 C</td>
<td>Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>ATC 114 C</td>
<td>Investigative Documentation</td>
<td>3</td>
</tr>
<tr>
<td>ATC 116 C</td>
<td>Aviation/Trans Security</td>
<td>3</td>
</tr>
<tr>
<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 126 C</td>
<td>Travel Management</td>
<td>3</td>
</tr>
<tr>
<td>ATC 278 C</td>
<td>Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 295 C</td>
<td>Airline/Travel Internship</td>
<td>3</td>
</tr>
<tr>
<td>ATC 298 C</td>
<td>Airline/Travel Seminar</td>
<td>½ - 12</td>
</tr>
<tr>
<td>ATC 299 C</td>
<td>ATC Independent Study</td>
<td>½ – 2</td>
</tr>
<tr>
<td>AVIA 132 C</td>
<td>Private Pilot</td>
<td>4</td>
</tr>
</tbody>
</table>

To earn an Airline Customer Services Certificate, students must complete the required courses with a minimum grade of “C.” At least 50 percent of all major course work must be completed at Cypress College.

Required courses are listed in numeric sequence:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 050 C</td>
<td>Special Projects—Airline</td>
<td>2</td>
</tr>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
<td>3</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific</td>
<td>3</td>
</tr>
<tr>
<td>ATC 182 C</td>
<td>Cultural Tourism</td>
<td>3</td>
</tr>
<tr>
<td>ATC 183 C</td>
<td>Customer Care: Airline/Travel</td>
<td>3</td>
</tr>
<tr>
<td>ATC 191 C</td>
<td>Airline Reservations: APOLLO</td>
<td>3</td>
</tr>
<tr>
<td>ATC 192 C</td>
<td>Airline Reservations: SABRE</td>
<td>3</td>
</tr>
<tr>
<td>ATC 270 C</td>
<td>Airline Operations</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

BASIC AIRLINE CUSTOMER SERVICES CERTIFICATE Program Code: 1K21124
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.

Students may earn a Basic Airline Customer Services Certificate (12 units), which will prepare them to pursue working in the airline customer services industry as an intern.

To earn a Basic Airline Customer Services Certificate, students must complete the required courses as 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 numeric sequence:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 050 C</td>
<td>Special Projects—Airline</td>
<td>2</td>
</tr>
<tr>
<td>ATC 112 C</td>
<td>Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>ATC 114 C</td>
<td>Investigative Documentation</td>
<td>3</td>
</tr>
<tr>
<td>ATC 116 C</td>
<td>Aviation/Trans Security</td>
<td>3</td>
</tr>
<tr>
<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 126 C</td>
<td>Travel Management</td>
<td>3</td>
</tr>
<tr>
<td>ATC 278 C</td>
<td>Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 295 C</td>
<td>Airline/Travel Internship</td>
<td>3</td>
</tr>
<tr>
<td>ATC 298 C</td>
<td>Airline/Travel Seminar</td>
<td>½ - 12</td>
</tr>
<tr>
<td>ATC 299 C</td>
<td>ATC Independent Study</td>
<td>½ – 2</td>
</tr>
<tr>
<td>AVIA 132 C</td>
<td>Private Pilot</td>
<td>4</td>
</tr>
</tbody>
</table>

ADVANCED AIRLINE CUSTOMER SERVICES CERTIFICATE Program Code: 1C14040
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 an Airline Customer Services Certificate, students must complete the required courses with a minimum grade of “C.” At least 50 percent of all major course work must be completed at Cypress College.

Required courses are listed in numeric sequence:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 050 C</td>
<td>Special Projects—Airline</td>
<td>2</td>
</tr>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
<td>3</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific</td>
<td>3</td>
</tr>
<tr>
<td>ATC 182 C</td>
<td>Cultural Tourism</td>
<td>3</td>
</tr>
<tr>
<td>ATC 183 C</td>
<td>Customer Care: Airline/Travel</td>
<td>3</td>
</tr>
<tr>
<td>ATC 191 C</td>
<td>Airline Reservations: APOLLO</td>
<td>3</td>
</tr>
<tr>
<td>ATC 192 C</td>
<td>Airline Reservations: SABRE</td>
<td>3</td>
</tr>
<tr>
<td>ATC 270 C</td>
<td>Airline Operations</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
<td>3</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific</td>
<td>3</td>
</tr>
<tr>
<td>ATC 191 C</td>
<td>Airline Reservations: APOLLO</td>
<td>3</td>
</tr>
<tr>
<td>ATC 192 C</td>
<td>Airline Reservations: SABRE</td>
<td>3</td>
</tr>
<tr>
<td>ATC 270 C</td>
<td>Airline Operations</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Aviation Programs

Courses
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 percent of all major course work must be completed at Cypress College.

Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 050 C</td>
<td>Special Projects: Airline 2, 2</td>
<td></td>
</tr>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers 3</td>
<td></td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio 3</td>
<td></td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe 3</td>
<td></td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific 3</td>
<td></td>
</tr>
<tr>
<td>ATC 182 C</td>
<td>Cultural Tourism 3</td>
<td></td>
</tr>
<tr>
<td>ATC 183 C</td>
<td>Customer Care: Airline/Travel 3</td>
<td></td>
</tr>
<tr>
<td>ATC 270 C</td>
<td>Airline Operations 3</td>
<td></td>
</tr>
<tr>
<td>ATC 274 C</td>
<td>Passenger Services &amp; Safety 3</td>
<td></td>
</tr>
</tbody>
</table>

Select a minimum of eight units from the electives below:

Total Units Required 36

Electives

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 112 C</td>
<td>Homeland Security 3</td>
<td></td>
</tr>
<tr>
<td>ATC 114 C</td>
<td>Investigative Documentation 3</td>
<td></td>
</tr>
<tr>
<td>ATC 116 C</td>
<td>Aviation/Trans Security 3</td>
<td></td>
</tr>
<tr>
<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations 3</td>
<td></td>
</tr>
<tr>
<td>ATC 126 C</td>
<td>Travel Management 3</td>
<td></td>
</tr>
<tr>
<td>ATC 278 C</td>
<td>Public Relations 3</td>
<td></td>
</tr>
<tr>
<td>ATC 295 C</td>
<td>Airline/Travel Internship 3</td>
<td></td>
</tr>
<tr>
<td>ATC 298 C</td>
<td>Airline/Travel Seminar ½ - 12</td>
<td></td>
</tr>
<tr>
<td>ATC 299 C</td>
<td>Independent Study ½ - 2</td>
<td></td>
</tr>
<tr>
<td>AVIA 100 C</td>
<td>Introduction to Aviation 3</td>
<td></td>
</tr>
<tr>
<td>AVIA 132 C</td>
<td>Private Pilot 4</td>
<td></td>
</tr>
<tr>
<td>PE 170 C</td>
<td>Self Defense ½ - 1</td>
<td></td>
</tr>
<tr>
<td>PE 235 C</td>
<td>First Aid, CPR &amp; Emergencies 3</td>
<td></td>
</tr>
</tbody>
</table>

BASIC FLIGHT ATTENDANT
CERTIFICATE  Program Code: 1K14404
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 a Basic Flight Attendant Certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 050 C</td>
<td>Special Projects – Airline (To be taken twice) 2, 2</td>
<td></td>
</tr>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
<td>3</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td></td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific</td>
<td>3</td>
</tr>
<tr>
<td>ATC 182 C</td>
<td>Cultural Tourism</td>
<td></td>
</tr>
<tr>
<td>ATC 183 C</td>
<td>Customer Care: Airline/Travel</td>
<td></td>
</tr>
<tr>
<td>ATC 270 C</td>
<td>Airline Operations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of five units from the electives below:

Total Units Required 36

Electives

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 112 C</td>
<td>Homeland Security 3</td>
<td></td>
</tr>
<tr>
<td>ATC 114 C</td>
<td>Investigative Documentation 3</td>
<td></td>
</tr>
<tr>
<td>ATC 116 C</td>
<td>Aviation/Trans Security 3</td>
<td></td>
</tr>
<tr>
<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations 3</td>
<td></td>
</tr>
<tr>
<td>ATC 126 C</td>
<td>Travel Management 3</td>
<td></td>
</tr>
<tr>
<td>ATC 278 C</td>
<td>Public Relations 3</td>
<td></td>
</tr>
<tr>
<td>ATC 295 C</td>
<td>Airline/Travel Internship 3</td>
<td></td>
</tr>
<tr>
<td>ATC 298 C</td>
<td>Airline/Travel Seminar ½ - 12</td>
<td></td>
</tr>
<tr>
<td>ATC 299 C</td>
<td>Independent Study ½ - 2</td>
<td></td>
</tr>
<tr>
<td>AVIA 100 C</td>
<td>Introduction to Aviation 3</td>
<td></td>
</tr>
<tr>
<td>AVIA 132 C</td>
<td>Private Pilot 4</td>
<td></td>
</tr>
<tr>
<td>PE 170 C</td>
<td>Self Defense ½ - 1</td>
<td></td>
</tr>
<tr>
<td>PE 235 C</td>
<td>First Aid, CPR &amp; Emergencies 3</td>
<td></td>
</tr>
</tbody>
</table>

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 an Advanced Flight Attendant certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 050 C</td>
<td>Special Projects: Airline 2, 2</td>
<td></td>
</tr>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
<td>3</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td></td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific</td>
<td>3</td>
</tr>
<tr>
<td>ATC 182 C</td>
<td>Cultural Tourism</td>
<td></td>
</tr>
<tr>
<td>ATC 183 C</td>
<td>Customer Care: Airline/Travel</td>
<td></td>
</tr>
<tr>
<td>ATC 270 C</td>
<td>Airline Operations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of eight units from the electives below:

Total Units Required 36

Electives

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 112 C</td>
<td>Homeland Security 3</td>
<td></td>
</tr>
<tr>
<td>ATC 114 C</td>
<td>Investigative Documentation 3</td>
<td></td>
</tr>
<tr>
<td>ATC 116 C</td>
<td>Aviation/Trans Security 3</td>
<td></td>
</tr>
<tr>
<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations 3</td>
<td></td>
</tr>
<tr>
<td>ATC 126 C</td>
<td>Travel Management 3</td>
<td></td>
</tr>
<tr>
<td>ATC 278 C</td>
<td>Public Relations 3</td>
<td></td>
</tr>
<tr>
<td>ATC 295 C</td>
<td>Airline/Travel Internship 3</td>
<td></td>
</tr>
<tr>
<td>ATC 298 C</td>
<td>Airline/Travel Seminar ½ - 12</td>
<td></td>
</tr>
<tr>
<td>ATC 299 C</td>
<td>Independent Study ½ - 2</td>
<td></td>
</tr>
<tr>
<td>AVIA 100 C</td>
<td>Introduction to Aviation 3</td>
<td></td>
</tr>
<tr>
<td>AVIA 132 C</td>
<td>Private Pilot 4</td>
<td></td>
</tr>
<tr>
<td>PE 170 C</td>
<td>Self Defense ½ - 1</td>
<td></td>
</tr>
<tr>
<td>PE 235 C</td>
<td>First Aid, CPR &amp; Emergencies 3</td>
<td></td>
</tr>
</tbody>
</table>
ASSOCIATE IN SCIENCE DEGREE
TRAVEL/TOURISM  Program Code: 1S07859
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 degree will develop an advanced understanding of the travel industry and the sales, security, and service requirements necessary to work in the travel industry.

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.

**Required courses are listed in suggested sequence:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
<td>3</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 126 C</td>
<td>Travel Management</td>
<td>3</td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific</td>
<td>3</td>
</tr>
<tr>
<td>ATC 182 C</td>
<td>Cultural Tourism</td>
<td>3</td>
</tr>
<tr>
<td>ATC 191 C</td>
<td>Airline Reservations: APOLLO</td>
<td>3</td>
</tr>
<tr>
<td>ATC 192 C</td>
<td>Airline Reservations: SABRE</td>
<td>3</td>
</tr>
<tr>
<td>ATC 223 C</td>
<td>Cruise Line Sales &amp; Operations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of six units from the elective courses below.

**Total Units Required** 36

**Electives:** To complete all major course requirements, students must complete 6 elective units from the list below for a total of 36 units.

- ATC 050 C Special Projects - Airline 2
- ATC 112 C Homeland Security 3
- ATC 114 C Investigative Documentation 3
- ATC 116 C Aviation/Trans Security 3
- ATC 180 C Tourism/Conference Management 3
- ATC 183 C Customer Care: Airline/Travel 3
- ATC 278 C Public Relations 3
- ATC 295 C Airline/Travel Internship 3
- ATC 298 C Airline/Travel Seminar ½ - 12
- ATC 299 C Independent Study ½ - 2

ADVANCED TRAVEL/TOURISM CERTIFICATE  Program Code: 1C21123

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 an advanced understanding of the travel industry and the sales, security, and service requirements necessary to work in the travel industry.

To earn a certificate, students must complete the required courses 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
<td>3</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 126 C</td>
<td>Travel Management</td>
<td>3</td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific</td>
<td>3</td>
</tr>
<tr>
<td>ATC 182 C</td>
<td>Cultural Tourism</td>
<td>3</td>
</tr>
<tr>
<td>ATC 191 C</td>
<td>Airline Reservations: APOLLO</td>
<td>3</td>
</tr>
<tr>
<td>ATC 192 C</td>
<td>Airline Reservations: SABRE</td>
<td>3</td>
</tr>
<tr>
<td>ATC 223 C</td>
<td>Cruise Line Sales &amp; Operations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of six units from the elective courses below.

**Total Units Required** 36

**Electives:** To complete all major course requirements, students must complete 6 elective units from the list below for a total of 36 units.

- ATC 050 C Special Projects - Airline 2
- ATC 112 C Homeland Security 3
- ATC 114 C Investigative Documentation 3
- ATC 116 C Aviation/Trans Security 3
- ATC 180 C Tourism/Conference Management 3
- ATC 183 C Customer Care: Airline/Travel 3
- ATC 278 C Public Relations 3
- ATC 295 C Airline/Travel Internship 3
- ATC 298 C Airline/Travel Seminar ½ - 12
- ATC 299 C Independent Study ½ - 2

BASIC TRAVEL/TOURISM CERTIFICATE  Program Code: 1K14405

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 a Travel/Tourism Certificate, students must complete the required courses 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
<td>3</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific</td>
<td>3</td>
</tr>
<tr>
<td>ATC 191 C</td>
<td>Airline Reservations: APOLLO</td>
<td>3</td>
</tr>
<tr>
<td>ATC 192 C</td>
<td>Airline Reservations: SABRE</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required** 15

BASIC CRUISE LINE SALES & OPERATIONS CERTIFICATE  Program Code: Pending

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 numeric sequence:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
<td>3</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>ATC 175 C</td>
<td>Destinations: Africa/Pacific</td>
<td>3</td>
</tr>
<tr>
<td>ATC 223 C</td>
<td>Cruise Line Sales &amp; Operations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required** 15
BASIC TOURISM & CONFERENCE MANAGEMENT CERTIFICATE  Program Code 1K17168
The Basic Tourism & Conference Management Certificate prepares students to work as professional meeting and event coordinators. The basic certificate will prepare the students for entry-level employment in the industry as an apprentice meeting and event coordinator.

To earn a certificate, students must complete the required courses 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:

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<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC 101 C</td>
<td>Intro to Travel Careers</td>
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<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 180 C</td>
<td>Tourism/Conference Management</td>
<td>3</td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ATC 175 C Destinations: Africa/Pacific</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

HOMELAND TRANSPORTATION SECURITY CERTIFICATE  Program Code 1K17169
The Homeland Transportation Security Certificate provides technical skills and in-depth knowledge relating to the homeland security, administration of justice, organizational protection, and safety with an emphasis on the travel and transportation industries.

To earn a certificate, students must complete the required courses 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>AJ 100 C</td>
<td>Intro to Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AJ 110AC Criminal Law</td>
<td>(3)</td>
</tr>
<tr>
<td>ATC 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ATC 112 C</td>
<td>Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>ATC 114 C</td>
<td>Investigative Documentation</td>
<td>3</td>
</tr>
<tr>
<td>ATC 116 C</td>
<td>Aviation/Trans Security</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ATC 118 C Disaster Preparedness/Response</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

AIRLINE AND TRAVEL CAREERS TRANSFER PROGRAMS
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Airline and Travel Careers (ATC)

ATC 050 C SPECIAL PROJECTS - AIRLINE
2 Units (May be taken for credit two times.)
One hour lecture and
Three hours laboratory TBA per week.
Corequisite: Completion of or concurrent enrollment in ATC 102 C.
Advisory: Concurrent enrollment in ATC 270 C or ATC 274 C. This course provides students with service learning opportunities that put into practice the abstract theories of their course work. Students will develop their public contact and customer care skills as they host various campus, community, civic, and travel-related events. Service learning offers students an opportunity to improve their self-directed and critical thinking skills – abilities considered essential in the airline and travel industries. To prepare for industry employment, students will update their career portfolios and practice interviewing on video.

ATC 101 C INTRODUCTION TO TRAVEL CAREERS
3 Units
Three hours lecture per week.
CSU
This course introduces students to operations and career opportunities in the airline and travel industries. The history, definition, organization, and industry trends will be reviewed. Internet research will be utilized and students will prepare a personalized career project.

ATC 102 C CAREER COMMUNICATION/PORTFOLIO
3 Units
(Same as AVIA 102 C)
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Students will learn how professional presentation skills can make the difference in achieving their personal career success. This course reviews both oral and written career communication skills, including the development of a comprehensive resume, cover letter, business writing samples, interviewing skills, technology basics, business etiquette, and a career portfolio. Video will be used to help students achieve maximum effectiveness in mock-interviews. Students will also learn test-taking strategies necessary for career success.

ATC 103 C AIRLINE/TRAVEL OPEN LAB
½ Unit (Variable Unit Course) (May be taken for credit 4 times)
One and one-half to nine hours laboratory per week.
Pass/ No Pass
CSU
Corequisite: Students must be enrolled in another Airline & Travel Careers course. This open-entry, open-exit course with flexible hours and variable units provides students enrolled in an Airline & Travel Careers course with the equipment and resources to allow self-paced individualized instruction and/or practice in core competencies. Twenty-seven (27) hours are required for each one-half unit. May be taken for credit 4 times. $5.00 Materials Fee – PAYABLE AT REGISTRATION.

BASIC TOURISM & CONFERENCE MANAGEMENT CERTIFICATE  Program Code 1K17168
The Basic Tourism & Conference Management Certificate prepares students to work as professional meeting and event coordinators. The basic certificate will prepare the students for entry-level employment in the industry as an apprentice meeting and event coordinator.

To earn a certificate, students must complete the required courses 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:

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<td>3</td>
</tr>
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<td>ATC 123 C</td>
<td>Travel Sales &amp; Tour Operations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 180 C</td>
<td>Tourism/Conference Management</td>
<td>3</td>
</tr>
<tr>
<td>ATC 174 C</td>
<td>Destinations: Americas/Europe</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ATC 175 C Destinations: Africa/Pacific</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

HOMELAND TRANSPORTATION SECURITY CERTIFICATE  Program Code 1K17169
The Homeland Transportation Security Certificate provides technical skills and in-depth knowledge relating to the homeland security, administration of justice, organizational protection, and safety with an emphasis on the travel and transportation industries.

To earn a certificate, students must complete the required courses 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:

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<td>ATC 114 C</td>
<td>Investigative Documentation</td>
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<tr>
<td>ATC 116 C</td>
<td>Aviation/Trans Security</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ATC 118 C Disaster Preparedness/Response</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
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AIRLINE AND TRAVEL CAREERS TRANSFER PROGRAMS
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Airline and Travel Careers (ATC)

ATC 050 C SPECIAL PROJECTS - AIRLINE
2 Units (May be taken for credit two times.)
One hour lecture and
Three hours laboratory TBA per week.
Corequisite: Completion of or concurrent enrollment in ATC 102 C.
Advisory: Concurrent enrollment in ATC 270 C or ATC 274 C. This course provides students with service learning opportunities that put into practice the abstract theories of their course work. Students will develop their public contact and customer care skills as they host various campus, community, civic, and travel-related events. Service learning offers students an opportunity to improve their self-directed and critical thinking skills – abilities considered essential in the airline and travel industries. To prepare for industry employment, students will update their career portfolios and practice interviewing on video.

ATC 101 C INTRODUCTION TO TRAVEL CAREERS
3 Units
Three hours lecture per week.
CSU
This course introduces students to operations and career opportunities in the airline and travel industries. The history, definition, organization, and industry trends will be reviewed. Internet research will be utilized and students will prepare a personalized career project.

ATC 102 C CAREER COMMUNICATION/PORTFOLIO
3 Units
(Same as AVIA 102 C)
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Students will learn how professional presentation skills can make the difference in achieving their personal career success. This course reviews both oral and written career communication skills, including the development of a comprehensive resume, cover letter, business writing samples, interviewing skills, technology basics, business etiquette, and a career portfolio. Video will be used to help students achieve maximum effectiveness in mock-interviews. Students will also learn test-taking strategies necessary for career success.

ATC 103 C AIRLINE/TRAVEL OPEN LAB
½ Unit (Variable Unit Course) (May be taken for credit 4 times)
One and one-half to nine hours laboratory per week.
Pass/ No Pass
CSU
Corequisite: Students must be enrolled in another Airline & Travel Careers course. This open-entry, open-exit course with flexible hours and variable units provides students enrolled in an Airline & Travel Careers course with the equipment and resources to allow self-paced individualized instruction and/or practice in core competencies. Twenty-seven (27) hours are required for each one-half unit. May be taken for credit 4 times. $5.00 Materials Fee – PAYABLE AT REGISTRATION.
ATC 112 C  HOMELAND SECURITY  
3 Units  
Three hours lecture per week.  
CSU  
This course is an introductory study of domestic and international threats of terrorism. It examines the concepts, definitions, and contemporary issues of modern terrorism. The course includes law enforcement issues for first-responders relating to terrorism, particularly with regard to Homeland Protection and counter terrorist measures.

ATC 114 C  INVESTIGATIVE DOCUMENTATION  
3 Units  
Three hours lecture per week.  
CSU  
This course is an introductory study of the investigation and techniques used to complete accurate and detailed informational reports relating to actual or suspected terrorist activities. The focus of the course is to develop an understanding of how to take accurate notes, prepare reports, and formulate investigative techniques. Practical exercises will teach students to employ effective methods of obtaining information from victims, witnesses, and suspects and reporting that information.

ATC 116 C  AVIATION/TRANS SECURITY  
3 Units  
Three hours lecture per week.  
CSU  
This course is an introductory study of domestic and international airport and transportation security issues. It includes the Patriot Act and changing laws relating to airport and transportation security. The course will present and analyze the current status of aviation law pertaining to terrorism, air rage, search and seizure protections and impending changes to the nation's transportation industry.

ATC 118 C  DISASTER PREPAREDNESS/RESPONSE  
3 Units  
Three hours lecture per week.  
Pass/No Pass/Letter Grade Option  
CSU  
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.

ATC 123 C  TRAVEL SALES & TOUR OPERATIONS  
3 Units  
Three hours lecture per week.  
CSU  
Students will learn the essentials of travel sales and tour operations, including the latest trends, itinerary planning, and the technologies available to travel/tourism consultants in the leisure, recreational, and corporate travel markets.

ATC 126 C  TRAVEL MANAGEMENT  
3 Units  
Three hours lecture per week.  
CSU  
This course is a study of management practices in the airline and travel/tourism industries, including ARC requirements, location and staffing, sales reports and agency accounting. Travel markets, product lines, marketing techniques, advertising, and promotions are explored. Techniques for personal and telephone selling and guidelines for handling job stress, sales, and client crises are included. Students will learn supervisory and leadership strategies.

ATC 174 C  DESTINATIONS: AMERICAS/EUROPE  
3 Units  
Three hours lecture per week.  
CSU  
This course introduces students to world geography from a travel and tourism perspective. Students will learn about domestic and international travel considerations including itineraries, currencies, travel documents, customs, language, health requirements, and time considerations for locations throughout the Americas and Europe.

ATC 175 C  DESTINATIONS: AFRICA/PACIFIC  
3 Units  
Three hours lecture per week.  
CSU  
This course continues the study of world geography from a travel and tourism perspective. Students will examine international travel considerations including itineraries, currencies, travel documents, customs, language, health requirements, and time considerations for the following locations: Africa, the Middle East, Asia, and the Pacific Islands.

ATC 180 C  TOURISM/CONFERENCE MANAGEMENT  
3 Units  
Three hours lecture per week.  
CSU  
This course is an introductory study of meeting, convention, and event planning. It introduces students to industry terminology, types of events and venues, needs assessments, program and budget development, and project coordination.

ATC 182 C  CULTURAL TOURISM  
3 Units  
Three hours lecture per week.  
CSU/CUL DIV  
This course examines the implications of cultural tourism in the United States. The course will consider the struggle of people to preserve their cultural identity relative to the role of the U. S. tourism industry in protecting cultural heritage, resources, and sites. The course promotes multicultural awareness, hospitality, and sensitivity as a means of recognizing others and minimizing the exploitation of their culture. The course explores the complexities and challenges of U.S. policy making and preservation in cultural tourism development.
ATC 183 C  CUSTOMER CARE: AIRLINE/TRAVEL
3 Units
Three hours lecture per week.
CSU
This course examines the priority of customer service and satisfaction in the competitive airline industry. Topics include the safety regulations and service standards of the Federal Aviation Administration, the Department of Transportation, and airlines themselves. Students will study these standards in relation to current performance, public opinion, and service ideology. Students will also investigate how airlines differentiate their service to be competitive in a particular market niche. Students will “shop” airlines and service related businesses to gain tools for developing a personal approach to customer care.

ATC 191 C  AIRLINE RESERVATIONS: APOLLO
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU, Credit by Examination
This course is an introduction to APOLLO, the computer reservations system used by United Airlines and one of the two major systems used by travel consultants. Students will learn how to build PNR’s (passenger name records), quote fares, and calculate prices through hands-on applications on computers. $4.00 Materials Fee – PAYABLE AT REGISTRATION.

ATC 192 C  AIRLINE RESERVATIONS: SABRE
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU
This course is an introduction to SABRE, the computer reservations system used by American Airlines and one of the two major systems used by travel consultants. Students will learn how to build PNR’s (passenger name records), quote fares, and calculate prices through hands-on applications on computers. $4.00 Materials Fee – PAYABLE AT REGISTRATION.

ATC 210 C  CABIN SAFETY SIMULATION
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
CSU
Advisory: Completion of, or concurrent enrollment in, ATC 270 C or ATC 274 C. Students will receive hands-on instruction in a motion-based aircraft cabin simulator at the Alteon Training facility at the Long Beach Airport. Students will participate in passenger safety training in a simulated aircraft environment. An Alteon Certificate will be issued upon successful completion. A required 3-hour preparatory class will be held on campus and the remaining 6 hours will be delivered at Alteon Training at Long Beach Airport. Facility Use Fee of $100 required PAYABLE AT REGISTRATION. Fee subject to change by facility.

ATC 223 C  CRUISE LINE SALES & OPERATIONS
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
This course provides students with a practical, working knowledge of the cruise industry, including its operation, terminology, associations, and resources. Students will learn how to differentiate, price, market, and sell cruises.

ATC 256 C  CREW RESOURCE MANAGEMENT
3 Units
Three hours lecture per week.
CSU
This course will examine the concepts of Crew Resource Management (CRM) and Human Factors and Aeronautical Decision Making currently practiced in commercial and corporate aviation. The role of crew supervision and training, leadership styles and management oversight will be studied. Single and multi-crew aircraft situations will be studied. Human factors research and aircraft accident investigations will be examined. Duplicate credit not granted for AVIA 256 C.

ATC 270 C  AIRLINE OPERATIONS
3 Units
Three hours lecture per week.
CSU
This course is designed for students interested in working in the airline industry as flight attendants or customer service representatives (i.e. ground, reservations, ramp, or ticketing agents). Students will learn airline terminology, city codes, the 24-hour clock, airline operations, and industry hiring standards.

ATC 274 C  PASSENGER SERVICES & SAFETY
3 Units
Three hours lecture per week.
CSU
Advisory: Concurrent enrollment in ATC 050 C recommended. In this course special emphasis is placed on emergency procedures and federal regulations. The essential professional attitude and teamwork needed to successfully perform as a crew member to insure onboard passenger safety and comfort will be covered.

ATC 278 C  PUBLIC RELATIONS
3 Units
Three hours lecture per week.
CSU
This course introduces students to the public relations concepts and practices in the hospitality and travel industries. Students will examine promotional campaigns and develop their own public relations proposal with emphasis on practical applications.

ATC 295 C  AIRLINE/TRAVEL INTERNSHIP
3 Units
One hour lecture and
Fifteen hours laboratory per week.
CSU
Prerequisite: Completion of the Basic Airline Customer Services Certificate; or Basic Flight Attendant Certificate; or Basic Travel/Tourism Certificate. This course offers practical work experience in an approved airline and travel related industry for the student(s) in the Airline and Travel Careers program. This course is designed to provide vocational learning opportunities through employment.
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 percent 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

<table>
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<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ANTH 101</td>
<td>3</td>
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<td>or</td>
<td>ANTH 101HC</td>
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<td>or</td>
<td>ANTH 101LC</td>
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<tr>
<td>ANTH 102</td>
<td>3</td>
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<td>or</td>
<td>ANTH 102HC</td>
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<tr>
<td>ANTH 106</td>
<td>3</td>
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<td>or</td>
<td>ANTH 203</td>
</tr>
<tr>
<td>ANTH 105</td>
<td>3</td>
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</tbody>
</table>

Total Units Required: 19

ANTHROPOLOGY TRANSFER PROGRAM

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.
Anthropology (ANTH)

ANTH 101 C  BIOLOGICAL ANTHROPOTOLOGY
3 Units
(Formerly ANTH 201 C)
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course introduces the biological and physical aspects of what it means to be human from a scientific and evolutionary perspective. This includes an introduction to human genetics, principles of natural selection and other forces of evolution, physical and behavioral characteristics of non-human primates, fossil evidence of primate and human evolutionary change, and information about modern human variation. Duplicate credit not granted for ANTH 101 C.

ANTH 101HC HONORS BIOLOGICAL ANTHROPOTOLOGY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course provides an introduction to biological and physical aspects of what it means to be human from a scientific and evolutionary perspective. This includes an introduction to human genetics, principles of natural selection and other forces of evolution, physical and behavioral characteristics of non-human primates, fossil evidence of primate and human evolutionary change, and information about modern human variation. Duplicate Credit not granted for ANTH 101 C.

ANTH 101LC BIOLOGICAL ANTHROPOTOLOGY LAB
1 Unit
(Formerly ANTH 201 C)
Three hours laboratory per week.
UC/CSU, AA GE, CSU GE, IGETC
Corequisite: Completion of or concurrent enrollment in ANTH 101 C. This course provides an introduction to experiential and experimental laboratory research methods used in biological anthropology. Topics will include the scientific method, Mendelian and population genetics, the forces of evolution, anthropometry and other measures of human variation, human osteology, taxonomy, biology and behavior of living and extinct primates, and the evidence for human evolution including fossil hominids. One field trip to a regional zoo will be required for non-human primate observations. Zoo admissions range $6.00 - $35.00.

ANTH 102 C  CULTURAL ANTHROPOTOLOGY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This introductory course explores the nature of culture and how culture guides human behavior. Topics include language, subsistence, economics, social and political organization, marriage, kinship, religion, the arts, and culture change. This course is intended for students who are interested in gaining a deeper understanding of themselves and their fellow human beings. Duplicate credit not granted for ANTH 102HC.

ANTH 102HC HONORS CULTURAL ANTHROPOTOLOGY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This enhanced introductory course explores the nature of culture and how culture guides human behavior. Topics include language, subsistence, economics, social and political organization, marriage, kinship, religion, the arts, and culture change. This course is intended for students who are interested in gaining a deeper understanding of themselves and their fellow human beings. Duplicate credit not granted for ANTH 102 C.

ANTH 104 C COMPARATIVE CULTURES
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course uses a focused cross-cultural and comparative approach to introduce anthropological concepts such as modes of production, family and kinship, economics, political organization, art and religion. Globalization and culture change will also be explored. A representative selection of culture areas will be featured through ethnography, providing perspective on the variety of human adaptation and how cultural systems are integrated.

ANTH 105 C LANGUAGE AND CULTURE
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course explores the nature of language in relation to culture and how language processes develop and change. Students will examine how cultural knowledge is linguistically organized and how language shapes our perception of the world, and how it acts as a guide, both symbolic and practical, to understanding human actions. A basic introduction into the primary concepts of the discipline help students to understand what language reveals about human beings as bearers of culture.

ANTH 106 C WORLD PREHISTORY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an introduction to the prehistoric development of civilizations both in the Old World and the New World beginning with early modern humans. Because the prehistoric is the time prior to cultures’ writing about themselves, students will examine archaeological methods and theories used to describe the past. Topics will include the spread of modern humans, Mesolithic societies, the origins of food production and the evolution and collapse of various world civilizations.

ANTH 107 C MAGIC, WITCHCRAFT AND RELIGION
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an anthropological survey of systems of magic, witchcraft, and religion from the past and the present, from societies around the world. Examines beliefs and practices in cultural settings with respect to the role of the supernatural. Special topics include myth, religious healing, witchcraft and sorcery, ritual and millenarian movements.
ANTH 121 C  NATIVE NORTH AMERICA
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course is an anthropological survey of the cultures of Native American societies of North America. Topics include the peopling of the New World, traditional culture, the impacts of culture contact both from Western cultures and native peoples' cultures on one another, and contemporary issues.

ANTH 203 C  INTRODUCTION TO ARCHAEOLOGY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an introduction to the basic principles, theories, methods and practice of archaeology: how archaeological sites are discovered, surveyed, tested, excavated, dated, recorded, preserved, analyzed, interpreted, and published. It includes discussions on site and cultural development, how sites are preserved, taphonomy of the archaeological record, geoarchaeology, bioarchaeology, technology and cultural adaptation to the environment. Furthermore, the course elucidates the difference between academic and contract archaeology, how to join archaeological expeditions, and how they are funded.

ANTH 210 C  INTRODUCTION TO FORENSIC ANTHROPOLOGY
3 Units
Three hours lecture per week.
UC/CSU
Advisory: ENGL 060 C. Forensic anthropology is the application of standard, scientific, anthropological methods and techniques to identify human remains and to assist in the detection of a crime or after a mass disaster. This course provides a basic overview of the field of forensic anthropology, human osteology, the techniques used to make estimations of age, sex, ancestry and stature, recovery techniques and the analytic techniques and procedures used in the medicolegal framework. This class includes extensive analysis of anthropological methods, ethics, socio-cultural considerations and civic responsibilities inherent to forensic anthropology.

ANTH 298 C  ANTHROPOLOGY SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion type course developed on a particular limited problem or topic of interest to students. It is designed for able students who wish to increase their knowledge on a particular topic concerning which no other regular class is offered. A paper or group activity may be requested. Credit may range from ½ to 12 units. Consult the class schedule for the offerings in a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

ANTH 299 C  ANTHROPOLOGY INDEPENDENT STUDY
1 Unit (May be taken for credit 3 times)
Varying hours of scheduled conferences per week.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. Independent study is for able students who wish to extend their knowledge of a particular area through individual research and study. It is thought that topics might develop out of a curiosity stimulated in a regular class. The student would then contact the supervising instructor to develop a contract for his/her particular interest so that they could learn more regarding their special topic.

Art

Division of Fine Arts

Division Dean – Ting-Pi (Joyce) Carrigan

Faculty
Edward Giardina
Ian Holmes
Sarah Jaffray
Michael Johnson
Paul Paiement
Joyce Patti
Molly Schulps

Counselors
Renay Laguana-Ferinac
Renee Ssensalo

PROGRAM LEARNING OUTCOMES (PLOs)
Program Learning Outcomes (PLOs) are in the process of finalization.

ASSOCIATE IN ARTS DEGREE

ADVERTISING

Program Code: 1A10448

Design
The primary emphasis is to prepare the student for employment. 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.

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.
**ART 110 C** INTRODUCTION TO ART
3 Units

Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

Advisory: Completion of ENGL 100 C. This course is designed to expose the student to art from prehistoric times to the present: its purposes, materials, themes, history, and significance. It also acquaints the student with art and artists’ roles in present and past societies, and helps the student understand the uses of materials and visual elements (i.e., line, color, etc.) to communicate ideas in architecture, sculpture, painting, ceramics, crafts, filmmaking, printmaking, etc. Major writing assignments are required. Cost of museum visit will not exceed $15.00.

**ART 111 C** SURVEY OF ART HISTORY I
3 Units

Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

Advisory: Completion of ENGL 100 C. This course studies the development of ancient and medieval architecture, sculpture and painting in the Western and Eastern cultures. Emphasis is placed on examining how art records and shapes history, how style communicates the ideas of the artist and his culture, and how symbols, techniques, materials and subjects are used and transferred from one culture to another. Major writing assignments are required. Cost of museum visit will not exceed $15.00.

**ART 112 C** SURVEY OF ART HISTORY II
3 Units

Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

Advisory: Completion of ENGL 100 C. This course studies the development of ancient and medieval architecture, sculpture and painting in the Western and Eastern cultures. Emphasis is placed on examining how art records and shapes history, how style communicates the ideas of the artist and his culture, and how symbols, techniques, materials and subjects are used and transferred from one culture to another. Major writing assignments are required. Cost of museum visit will not exceed $15.00.

**ART 112HC** HONORS SURVEY OF ART HISTORY II
3 Units

Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

Advisory: Completion of ENGL 100 C. This course studies the development of ancient and medieval architecture, sculpture and painting in the Western and Eastern cultures. Emphasis is placed on examining how art records and shapes history, how style communicates the ideas of the artist and his culture, and how symbols, techniques, materials and subjects are used and transferred from one culture to another. Major writing assignments are required. Cost of museum visit will not exceed $15.00.

**ART 111 C, 112 C, 112HC** SURVEY OF ART HISTORY I & II
3, 3

This introductory course investigates the visual elements and principles of art through lectures, reading, films and hands-on experience. It also examines, in the same manner, historical styles and themes in art as well as materials and techniques. Cost of Museum visit and materials will not exceed $20.00.

**ART 100 C** FUNDAMENTALS OF ART
3 Units

Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

This program is designed to prepare the student for 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 percent 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.

**ART TRANSFER PROGRAM**

Select a minimum of 11 Units from the Art course offerings not listed above except ART 170 C. 11

Total Units Required 35

* A score of 3 or higher on the Advanced Placement (AP) Art (Studio Drawing) exam with portfolio approval, meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Art (History) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

ASSOCIATE IN ARTS DEGREE

This program is designed to prepare the student for 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 percent 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.

Select at least 6 units from the following:

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<th>Course #</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>ART 185 C</td>
<td>Life Drawing</td>
<td>(3)</td>
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<tr>
<td>*ART 182 C</td>
<td>Freehand Drawing (additional semester)</td>
<td>(3)</td>
</tr>
<tr>
<td>ART 189 C</td>
<td>Fundamentals of Painting</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Select a minimum of 11 Units from the Art course offerings not listed above except ART 170 C.

Total Units Required 35

* A score of 3 or higher on the Advanced Placement (AP) Art (Studio Drawing) exam with portfolio approval, meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Art (History) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

ART (ART)

**ART 100 C** FUNDAMENTALS OF ART
3 Units

Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

This introductory course investigates the visual elements and principles of art through lectures, reading, films and hands-on experience. It also examines, in the same manner, historical styles and themes in art as well as materials and techniques. Cost of Museum visit and materials will not exceed $20.00.

**ART 110 C** INTRODUCTION TO ART
3 Units

Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

Advisory: Completion of ENGL 100 C. This course is designed to expose the student to art from prehistoric times to the present: its purposes, materials, themes, history, and significance. It also acquaints the student with art and artists’ roles in present and past societies, and helps the student understand the uses of materials and visual elements (i.e., line, color, etc.) to communicate ideas in architecture, sculpture, painting, ceramics, crafts, filmmaking, printmaking, etc. Major writing assignments are required. Cost of museum visit will not exceed $15.00.

**ART 111 C** SURVEY OF ART HISTORY I
3 Units

Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

Advisory: Completion of ENGL 100 C. This course studies the development of ancient and medieval architecture, sculpture and painting in the Western and Eastern cultures. Emphasis is placed on examining how art records and shapes history, how style communicates the ideas of the artist and his culture, and how symbols, techniques, materials and subjects are used and transferred from one culture to another. Major writing assignments are required. Cost of museum visit will not exceed $15.00.

**ART 112 C** SURVEY OF ART HISTORY II
3 Units

Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

Advisory: Completion of ENGL 100 C. This course studies the development of ancient and medieval architecture, sculpture and painting in the Western and Eastern cultures. Emphasis is placed on examining how art records and shapes history, how style communicates the ideas of the artist and his culture, and how symbols, techniques, materials and subjects are used and transferred from one culture to another. Major writing assignments are required. Cost of museum visit will not exceed $15.00.

**ART 112HC** HONORS SURVEY OF ART HISTORY II
3 Units

Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

Advisory: Completion of ENGL 100 C. This course studies the development of ancient and medieval architecture, sculpture and painting in the Western and Eastern cultures. Emphasis is placed on examining how art records and shapes history, how style communicates the ideas of the artist and his culture, and how symbols, techniques, materials and subjects are used and transferred from one culture to another. Major writing assignments are required. Cost of museum visit will not exceed $15.00.
ART 112 C  SURVEY OF ART HISTORY II
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Completion of ENGL 100 C. This course studies the development of architecture, sculpture and painting in the Western world from the Renaissance through the twenty-first century. Emphasis is placed on examining how art records and shapes history, how style communicates the ideas of the artist and his culture, and how symbols, techniques, materials and subjects are used and transferred from one culture to another. Major writing assignments are required. Cost of museum visit will not exceed $15.00. Duplicate credit not granted for ART 112C.

ART 112HC  HONORS SURVEY OF ART HISTORY II
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Completion of ENGL 100 C. This is an enhanced course that studies the development of architecture, sculpture, and painting of the Western world from the Renaissance through the twenty-first century. Emphasis is placed on examining how art records and shapes history, how style communicates the ideas of the artist and his culture, and how symbols, techniques, materials, and subjects are used and transferred from one culture to another. Cost of museum visit will not exceed $15.00. Duplicate credit not granted for ART 112 C.

ART 114 C  MODERN ART HISTORY
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Completion of ENGL 100 C. This course deals with the nature of twentieth and twenty-first century art and its origins in the late nineteenth century. Emphasis is placed on examining how art reflects history, how style communicates the ideas of the artist and his/her culture and how symbols, techniques, materials and subjects are used and expanded in 20th and 21st century artistic expression. Major written assignments are required. Cost of museum visit will not exceed $15.00.

ART 120 C  TWO-DIMENSIONAL DESIGN
3 Units
Two hours lecture and
Four hours laboratory per week.
UC/CSU, AA GE, CSU GE
This course provides the foundation for all visual arts, by examining the concepts, terminology, techniques and materials used in two-dimensional design. Materials fees are used for materials provided by the Art Department. $25.00 PAYABLE AT REGISTRATION.

ART 121 C  THREE-DIMENSIONAL DESIGN
3 Units
Two hours lecture and
Four hours laboratory per week.
UC/CSU
This course is an introductory course covering the materials, techniques, and tools used to create three-dimensional forms. This course emphasizes the vocabulary of three-dimensional design and its application to problem solving in three-dimensions. $20.00 fee for materials used in common – PAYABLE AT REGISTRATION.

ART 122 C  GALLERY/PORTFOLIO DESIGN
3 Units (May be taken for credit 4 times)
Two hour lecture and
Four hours laboratory per week.
UC/CSU
This course provides practical experience in gallery operation, art exhibit installation, and artist portfolio preparation. Students will have an opportunity to collaborate in the planning, designing, and installing of art exhibitions in the college gallery and to visit and evaluate exhibitions in other local galleries and museums. Students will also create individual art installations and professional artist portfolios. Materials Fees not to exceed $20.00.

ART 130 C  PRINTMAKING
3 Units (May be taken for credit 4 times)
Two hours lecture and
Four hours laboratory per week.
UC/CSU
This course will introduce the artist to concepts and techniques of drawing, design, and color through the use of fine art printing medias such as etching, lithography, and woodcut. Assignments in this course are flexible based upon personal interest. $10.00 Materials Fee – PAYABLE AT REGISTRATION.

ART 140 C  ADVERTISING/GRAPHIC DESIGN 1
3 Units
Two hours lecture and
Four hours laboratory per week.
UC/CSU
Prerequisite: Completion of or concurrent enrollment in ART 120 C. This is a basic course in advertising/graphic design, with emphasis on problem solving in lettering, typography, and trademark design. It includes development of concept development, layout, and presentation skills. Projects include lettering design, layout, trademark design, and typography. Students are introduced to non-electronic and electronic design techniques. Materials fees are for materials provided by the department. $25.00 MATERIALS FEE — PAYABLE AT REGISTRATION.

ART 141 C  ADVERTISING/GRAPHIC DESIGN 2
3 Units
Two hours lecture and
Four hours laboratory per week.
CSU
Prerequisite: Completion of or concurrent enrollment in ART 140 C. This is an intermediate course in advertising/graphic design with emphasis upon development of a highly comprehensive finished portfolio. Course includes refinement of concept development, layout, and presentation skills. Students refine their non-electronic and electronic design techniques. Material fees for materials are provided by the department. $25.00 Materials Fee – PAYABLE AT REGISTRATION.
### ART 142 C  ADVERTISING/GRAPHIC DESIGN 3
**3 Units**
Two hours lecture and
Four hours laboratory per week.

**Prerequisite:** Completion of or concurrent enrollment in ART 141 C. This is an advanced course in advertising/graphic design with an emphasis upon development of comprehensive finished portfolio pieces. This course includes group and individual design projects planned to provide experience in all steps of graphic design from concepts and development of a campaign continuity to production specifications. Special attention and emphasis is placed on planning and preparation of an advertising/graphic portfolio. Materials fees for materials are provided by the department. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

### ART 144 C  CARTOONING
**3 Units (May be taken for credit 4 times)**
Two hours lecture and
Four hours laboratory per week.

**Prerequisite:** ART 151 C. This is an introduction to basic cartooning techniques which includes sketching, inking, and the development of characters. Projects include gag-line cartooning, political cartooning, and the development of a weekly cartoon strip. In addition, there will be an analysis of the elements of both the humorous and the dramatic in cartoon art. This analysis will include a review of historically significant Sunday funnies and comic book characters, an examination of major trends in comic art from 1895 to the present and fundamentals of storyboard development.

### ART 150 C  CERAMICS HANDBUILDING
**3 Units**
Two hours lecture and
Four hours laboratory per week.

**UC/CSU, AA GE, CSU GE**
Basic information about ceramics will be covered. Learning to construct with off wheel (handbuilding) techniques will be applied to convey ideas, images, and feelings. Visual vocabulary as it pertains to all of the arts will be stressed. Basic technology of clay, glazes, and firing procedures are included. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

### ART 151 C  CERAMICS THROWING
**3 Units**
Two hours lecture and
Four hours laboratory per week.

**UC/CSU, AA GE, CSU GE**
Basic information about ceramics will be covered. With an emphasis on learning to use the potter’s wheel as a tool, students will use it to convey ideas, images, and feelings. Visual vocabulary as it pertains to all of the arts is emphasized. Basic technology of clay, glazes, and firing procedures are included. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

### ART 152 C  TECHNICAL AND CONCEPTUAL CERAMICS
**3 Units**
Two hours lecture and
Four hours laboratory per week.

**Prerequisite:** ART 150 C or ART 151 C with minimum grades of “C.” This course deals with advanced technical skills in ceramic construction and visual concepts. Identification and application of one’s personal aesthetic will be emphasized. Clay, glazes, and firing techniques are integral to this course. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

### ART 153 C  ADVANCED CERAMICS
**3 Units (May be taken for credit 4 times)**
Two hours lecture and
Four hours laboratory per week.

**UC/CSU**
Prerequisite: Completion of ART 152 C with a minimum grade of “C.” Advanced technical and conceptual skills will be covered. Synthesizing the individual development of a personal aesthetic will be stressed. Application of this aesthetic will be used to create ceramic objects. Further technology of clay, glazes, and firing possibilities is expected. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

### ART 154 C  RAKU CERAMICS
**3 Units (May be taken for credit 4 times)**
Two hours lecture and
Four hours laboratory per week.

**UC/CSU**
Prerequisite: ART 153 C with a minimum grade of “C.” This class which explores raku process and philosophy is designed for the advanced ceramic student. Developing a personal aesthetic towards raku will be emphasized. Experimentation of raku glazes will be stressed. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

### ART 155 C  ART - OPEN LAB
**½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)**
One and one-half hours to Six hours laboratory per week.

**Pass/No Pass**

**Corequisite:** Concurrent enrollment in any art class. This course is designed as an open laboratory. Working time can be anytime the laboratory is open on an individual basis. This open lab with flexible hours and variable units is designed to provide students with space and equipment needed to complete art assignments; therefore, concurrent enrollment in any art studio class is required. Twenty-seven (27) hours are required for each ½ unit up to 108 hours for two (2) units. Each subsequent credit represents advancing levels of achievement. Levels must be taken in sequence.

### ART 174 C  JEWELRY DESIGN
**2 Units (May be taken for credit 4 times)**
One hour lecture and
Three hours laboratory per week.

**CSU**
This is a course covering the design and construction of jewelry and small fabricated metal pieces. Emphasis will be placed on fabrication and direct casting techniques and their potential. $20.00 fee for materials used in common – PAYABLE AT REGISTRATION.

### ART 175 C  METALSMITHING
**2 Units (May be taken for credit 4 times)**
One hour lecture and
Three hours laboratory per week.

**Prerequisite:** ART 174 C. The emphasis of this course will be placed on the development of advanced design skills, lost wax casting and stone setting techniques. $20.00 fee for materials used in common – PAYABLE AT REGISTRATION.
ART 182 C  FREEHAND DRAWING
3 Units (May be taken for credit 4 times)
Two hours lecture and
Four hours laboratory per week.
UC/CSU, AA GE, CSU GE
This course is an introductory class in the fundamentals of drawing. The student will be exploring traditional and experimental methods in drawing. There is a strong emphasis on foundation skills such as form, value, composition, and perspective. Perceptual skills and self-expression will also be stressed. The student will work from nature, man-made objects, and his or her own imagination. Non-objective and abstract considerations will be examined in representational and experimental drawing. A variety of media will be introduced, such as graphite, charcoal, conte, pen, and ink. Advanced students will be exposed to more color and mixed media.

ART 185 C  LIFE DRAWING
3 Units (May be taken for credit 4 times)
Two hours lecture and
Four hours laboratory per week.
UC/CSU, AA GE
Life Drawing is an introduction to the representational and expressive drawing of the human figure. It is a foundation for figure painting. The course provides an opportunity for exploration of various methods, approaches, and media in figure drawing.

ART 189 C  FUNDAMENTALS OF PAINTING
3 Units (May be taken for credit 4 times)
Two hour lecture and
Four hours laboratory per week.
UC/CSU, AA GE, CSU GE
The purpose of this course is to approach painting as a creative and problem-solving process. Emphasis will be placed on the acquisition of technical/formal skills and the development of a personal artistic vision. This course will include a variety of media and the fundamentals of composition, color theory, and craftsmanship as applied to painting and the fine arts.

ART 191 C  LIFE PAINTING
3 Units (May be taken for credit 4 times)
Two hours lecture and
Four hours laboratory per week.
UC/CSU
Prerequisite: ART 185 C, or ART 189 C. Life Painting is an introduction to painting the human figure as a means to a more penetrating perception of visual phenomena and as a means of creative expression. Paintings will progress from a limited palette to full color with the emphasis on light, color, composition, and form. The course provides an opportunity for examination of historical and contemporary examples of figure painting and for exploration of various methods, approaches, and media. This course satisfies the requirements for units in lower division Life Painting for transfer.

ART 216 C  LATIN AMERICAN ART
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU (pending), AA GE, CSU GE (pending), IGETC (pending)
Advisory: ENGL 100 C. This course is a survey of arts and architecture of Mexico, Central America, and South America from 1200 BC to the late 20th century. Cost of museum visit will not exceed $15.00.

ART 244 C  ILLUSTRATION
3 Units (May be taken for credit 4 times)
Two hours lecture and
Four hours laboratory per week.
CSU
Prerequisite: Completion of or concurrent enrollment in ART 182 C.
This is an introductory to intermediate course in the art of illustration. Primary emphasis is on the design and execution of illustrations for various uses in a variety of media. Course content includes designing to communicate a message, composition, style, development of preliminary drawings, preparation of drawings for printed reproduction, and experiments in the use of various media. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

ART 298 C  ART SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to forty-eight hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. Various classes may be offered which are designed to meet the interests and needs of the student and faculty. Fees may be required – PAYABLE AT REGISTRATION AND/OR BOOKSTORE.

ART 299 C  ART INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
One-half to two hours conference per week.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. This is a course that is designed for the student to pursue an increased knowledge of a particular art discipline. Unit credit may range from ½ to 2 units in any given semester; units earned will be based on 18 hours for each ½ unit.
To earn a certificate, students must complete the required courses as 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 numeric sequence:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ACG 104 C</td>
<td>Intro to Mac 3D Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ACG 105 C</td>
<td>Intro to Win 3D Graphics</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 120 C</td>
<td>3D Modeling/Mac</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 121 C</td>
<td>3D Modeling/Win</td>
</tr>
<tr>
<td>ACG 150 C</td>
<td>Intermediate Animation/Mac</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 151 C</td>
<td>Intermediate Animation/Win</td>
</tr>
<tr>
<td>ACG 156 C</td>
<td>Advanced Animation/Mac</td>
<td>3</td>
</tr>
<tr>
<td>ACG 157 C</td>
<td>Advanced Animation/Win</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 180 C</td>
<td>Digital Video/Mac</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 181 C</td>
<td>Digital Video/Win</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>15</td>
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</tbody>
</table>

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, students must complete the required courses as 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:

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<tr>
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<tbody>
<tr>
<td>ART 120 C</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>*ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 189 C</td>
<td>Fundamentals of Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 244 C</td>
<td>Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ACG 100 C</td>
<td>Intro to Computer Graphics/Mac</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 101 C</td>
<td>Intro to Computer Graphics/Win</td>
</tr>
<tr>
<td>ACG 102 C</td>
<td>Intro to Mac WEB Graphics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 103 C</td>
<td>Intro to Win WEB Graphics</td>
</tr>
<tr>
<td>ACG 132 C</td>
<td>Electronic Illustration/Mac</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 114 C</td>
<td>Electronic Illustration/Win</td>
</tr>
<tr>
<td>ACG 133 C</td>
<td>Electronic Paint/Mac</td>
<td>3</td>
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<td>or</td>
<td>ACG 134 C</td>
<td>Digital Imaging/Mac</td>
</tr>
<tr>
<td>ACG 135 C</td>
<td>Digital Imaging/Win</td>
<td>(3)</td>
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<td>Select a minimum of 6 Units from the elective courses listed below</td>
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<td>Total Units Required</td>
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Electives

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 140 C</td>
<td>Advertising/Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>*ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
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<tr>
<td>ART 185 C</td>
<td>Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ACG 114 C</td>
<td>Electronic Illustration 2/Mac</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 115 C</td>
<td>Electronic Illustration 2/Win</td>
</tr>
</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Art (Studio Drawing) exam with portfolio meets this requirement upon petition through Admissions and Records. See a counselor for more information.

ANIMATION 2D COMPUTER GRAPHICS

CERTIFICATE Program Code: 1K15693
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, students must complete the required courses as 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 numeric sequence:

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<thead>
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<td>Two-Dimensional Design</td>
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<tr>
<td>*ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 244 C</td>
<td>Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ACG 102 C</td>
<td>Intro to Mac WEB Graphics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 103 C</td>
<td>Intro to Win WEB Graphics</td>
</tr>
<tr>
<td>ACG 134 C</td>
<td>Digital Imaging/Mac</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 135 C</td>
<td>Digital Imaging/Win</td>
</tr>
<tr>
<td>ACG 164 C</td>
<td>Adobe Flash Designer/Mac</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 165 C</td>
<td>Adobe Flash Designer/Win</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>15</td>
</tr>
</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Art (Studio Drawing) exam with portfolio meets this requirement upon petition through Admissions and Records. See a counselor for more information.

ANIMATION 3D COMPUTER GRAPHICS

CERTIFICATE Program Code: 1K15694
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, students must complete the required courses as 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:

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<tr>
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<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>*ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 244 C</td>
<td>Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ACG 102 C</td>
<td>Intro to Mac WEB Graphics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 103 C</td>
<td>Intro to Win WEB Graphics</td>
</tr>
<tr>
<td>ACG 134 C</td>
<td>Digital Imaging/Mac</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 135 C</td>
<td>Digital Imaging/Win</td>
</tr>
<tr>
<td>Select a minimum of 6 Units from the elective courses listed below</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Units Required</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>
The Digital Cinema Arts & Industry Certificate provides a foundation in the field of time-based media creation which includes video and audio recording for multiple platform exhibition and distribution. The certificate will prepare students to enter the fields of motion picture, television, multimedia, Internet and wireless media by providing a foundation set of courses that cover digital content creation. Students will learn the operation and application of software and hardware specific to these industries.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
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<tbody>
<tr>
<td>ART 120 C</td>
<td>Two-Dimensional Design</td>
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<tr>
<td>ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 140 C</td>
<td>Advertising/Graphic Design 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 141 C</td>
<td>Advertising/Graphic Design 2</td>
<td>3</td>
</tr>
<tr>
<td>ACG 100 C</td>
<td>Intro to Computer Graphics/Mac</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 101 C</td>
<td>Intro to Computer Graphics/Win</td>
</tr>
<tr>
<td>or</td>
<td>ACG 102 C</td>
<td>Intro to Mac WEB Graphics</td>
</tr>
<tr>
<td>or</td>
<td>ACG 103 C</td>
<td>Intro to Win WEB Graphics</td>
</tr>
<tr>
<td>or</td>
<td>ACG 112 C</td>
<td>Electronic Illustration/Mac</td>
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<tr>
<td>or</td>
<td>ACG 113 C</td>
<td>Electronic Illustration/Win</td>
</tr>
<tr>
<td>or</td>
<td>ACG 134 C</td>
<td>Digital Imaging/Mac</td>
</tr>
<tr>
<td>or</td>
<td>ACG 135 C</td>
<td>Digital Imaging/Win</td>
</tr>
<tr>
<td>or</td>
<td>ACG 140 C</td>
<td>Desktop Publishing 1/Mac</td>
</tr>
<tr>
<td>or</td>
<td>ACG 141 C</td>
<td>Desktop Publishing 1/Win</td>
</tr>
<tr>
<td>or</td>
<td>ACG 142 C</td>
<td>Desktop Publishing 2/Mac</td>
</tr>
<tr>
<td>or</td>
<td>ACG 143 C</td>
<td>Desktop Publishing 2/Win</td>
</tr>
<tr>
<td>or</td>
<td>ACG 146 C</td>
<td>Desktop Publishing 3/Mac</td>
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<tr>
<td>or</td>
<td>ACG 147 C</td>
<td>Desktop Publishing 3/Win</td>
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Select a minimum of 3 Units from the elective courses listed below

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<tr>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>3</td>
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</tbody>
</table>

Digital Cinema Production Certificate Program Code: Pending
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.

Required courses are listed in suggested sequence

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 185 C</td>
<td>Documentary Digital Cinema</td>
<td>3</td>
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<tr>
<td>ACG 187 C</td>
<td>Motion Graphics II</td>
<td>3</td>
</tr>
<tr>
<td>ACG 188 C</td>
<td>Video Production II</td>
<td>3</td>
</tr>
<tr>
<td>ACG 186 C</td>
<td>Wedding &amp; Event Videography</td>
<td>3</td>
</tr>
<tr>
<td>ACG 183 C</td>
<td>Preproduction for Filmmakers</td>
<td>3</td>
</tr>
<tr>
<td>ACG 191 C</td>
<td>Film Noir Genre</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACG 192 C</td>
<td>Great Directors of Cinema</td>
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<td>or</td>
<td>ACG 193 C</td>
<td>Introduction to 2D Animation</td>
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<tr>
<td>or</td>
<td>THEA 230 C</td>
<td>Directing Actors for Film/TV</td>
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Total Units 18

Electives

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART 130 C</td>
<td>Printmaking</td>
<td>3</td>
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<tr>
<td>ART 142 C</td>
<td>Advertising/Graphic Design 3</td>
<td>3</td>
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<tr>
<td>ART 185 C</td>
<td>Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 244 C</td>
<td>Illustration</td>
<td>3</td>
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</tbody>
</table>

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, students must complete the required courses as 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

<table>
<thead>
<tr>
<th>Course #</th>
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</thead>
<tbody>
<tr>
<td>ART 120 C</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 189 C</td>
<td>Fundamentals of Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 244 C</td>
<td>Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ACG 100 C</td>
<td>Intro to Computer Graphics/Mac</td>
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</tr>
<tr>
<td>or</td>
<td>ACG 101 C</td>
<td>Intro to Computer Graphics/Win</td>
</tr>
<tr>
<td>or</td>
<td>ACG 102 C</td>
<td>Intro to Mac WEB Graphics</td>
</tr>
<tr>
<td>or</td>
<td>ACG 103 C</td>
<td>Intro to Win WEB Graphics</td>
</tr>
<tr>
<td>or</td>
<td>ACG 112 C</td>
<td>Electronic Illustration/Mac</td>
</tr>
<tr>
<td>or</td>
<td>ACG 113 C</td>
<td>Electronic Illustration/Win</td>
</tr>
<tr>
<td>or</td>
<td>ACG 114 C</td>
<td>Electronic Illustration 2/Mac</td>
</tr>
<tr>
<td>or</td>
<td>ACG 115 C</td>
<td>Electronic Illustration 2/Win</td>
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<tr>
<td>or</td>
<td>ACG 134 C</td>
<td>Digital Imaging/Mac</td>
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<tr>
<td>or</td>
<td>ACG 135 C</td>
<td>Digital Imaging/Win</td>
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Select a minimum of 6 Units from the elective courses listed below

<table>
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<tr>
<th>Units</th>
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<tr>
<td>6</td>
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</table>

Total Units Required 30
## ACG 103 C  INTRODUCTION TO WIN WEB GRAPHICS

3 Units  
**Two hours lecture and Three hours laboratory TBA per week.**  
***CSU***  
This is an overview of the many uses of computer multimedia, with an emphasis on electronic publishing over the Internet. In the course of the semester, the students create a personal Web page enriched with such audiovisual elements as animation, sound, video, 3-D, and different types of still images. This class is intended as a gateway into the varied offerings of the Art Computer Graphics program, where the student can pursue more in-depth study on the topic(s) that most attracted them during this introductory class.  
$15.00 Materials Fee – PAYABLE AT REGISTRATION.

## ACG 104 C  INTRODUCTION TO MAC 3D GRAPHICS

3 Units  
**Two hours lecture and Three hours laboratory TBA per week.**  
***CSU***  
This is an overview of 3D computer graphics, with an emphasis on 2D paint and 3D modeling & animation software used in animation on the Macintosh. In the course of the semester, students create original 3D still and animation imagery for their portfolio. This class is intended as a gateway into the varied offerings of the Art Computer Graphics program, where the student can pursue more in-depth study on the topic(s) that most attracted them during this introductory class.  
$15.00 Materials Fee – PAYABLE AT REGISTRATION.

## ACG 105 C  INTRODUCTION TO WIN 3D GRAPHICS

3 Units  
**Two hours lecture and Three hours laboratory TBA per week.**  
***CSU***  
This is an overview of 3D computer graphics, with an emphasis on 2D paint and 3D modeling & animation software used in animation on a Windows computer. In the course of the semester, students create original 3D still and animation imagery for their portfolio. This class is intended as a gateway into the varied offerings of the Art Computer Graphics program, where the student can pursue more in-depth study on the topic(s) that most attracted them during this introductory class.  
$15.00 Materials Fee – PAYABLE AT REGISTRATION.

## ACG 107 C  MOTION GRAPHICS I

3 Units  
(May be taken for credit 4 times)  
**Two hours lecture per week and Three hours laboratory TBA per week.**  
***CSU***  
This is an overview of the many uses of computer multimedia, with an emphasis on electronic publishing over the Internet. In the course of the semester, the students create a personal Web page enriched with such audiovisual elements as animation, sound, video, 3-D, and different types of still images. This class is intended as a gateway into the varied offerings of the Art Computer Graphics program, where the student can pursue more in-depth study on the topic(s) that most attracted them during this introductory class.  
$15.00 Materials Fee – PAYABLE AT REGISTRATION.
ACG 109 C  DIGITAL VIDEO PRODUCTION I
3 Units (May be taken for credit 4 times)
Two hours lecture per week and
Three hours laboratory TBA per week.
CSU
This course introduces digital video production techniques including single camera operation and procedures, basic principles and techniques of sound and scriptwriting, and digital video editing. Course topics include the operation of digital camcorders; lighting and sound equipment and post production digital editing suites; concepts and techniques of nonlinear digital editing, including organization of the editing process; working the time line and audio editing, with emphasis on the principles and aesthetics of video editing. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 110 C  ELECTRONIC ILLUSTRATION/WIN
3 Units
Three hours lecture per week.
CSU
This course is an introduction to the history and technological development of the field of animation. Animation will be explored from various perspectives: by chronology, from its inception to present day; by form, including method and medium; by culture, comparing Western to Eastern; and by personality, concentrating on the figures who have shaped the art form and continue to influence it through their example. Emphasis is placed on examining how animation records, reflects and comments on world events and culture. Investigation into the technology of animation will include nineteenth century to present day 3D computer animation hardware and software tools that have evolved in the medium.

ACG 111 C  ELECTRONIC ILLUSTRATION/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 100 C or ACG 101 C or MMCG/ACG 102 C or MMCG/ACG 103 C and ART 120 C or by consent of instructor pending portfolio review. This course focuses on the Macintosh generation of Postscript (vector) images for integration into desktop publishing/page layout software and as stand-alone images allowing high resolution output. The course offers the professional artist basic Macintosh skills needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 112 C  ELECTRONIC ILLUSTRATION 2/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 112 C or ACG 113 C or by consent of instructor pending portfolio review. This course focuses on the advanced usage of Macintosh generation of Postscript (vector) images for integration into desktop publishing/page layout software and as stand-alone images allowing high resolution output. The course offers the professional artist advanced Macintosh skills needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 113 C  ELECTRONIC ILLUSTRATION 2/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 112 C or ACG 113 C or by consent of instructor pending portfolio review. This course focuses on the advanced usage of several 2D vector based drawing software packages. The course focuses on the advanced usage of Macintosh generation of Postscript (vector) images for integration into desktop publishing/page layout software and as stand-alone images allowing high resolution output. The course offers the professional artist advanced Windows skills needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 114 C  3D MODELING/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 104 C or ACG 105 C and ART 120 C or by consent of instructor pending portfolio review. This course focuses on the advanced usage of Windows generation of Postscript (vector) images for integration into desktop publishing/page layout software and as stand-alone images allowing high resolution output. The course offers the professional artist advanced Windows skills needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 115 C  3D MODELING/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 104 C or ACG 105 C and ART 120 C or by consent of instructor pending portfolio review. This course focuses on the introduction of three-dimensional concepts, the use of modeling tools, menu structures and modeling building applications of 3D design systems. Skills taught in this course will give students the ability to create original three-dimensional computer generated models of organic or mechanical design and animate them. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 120 C  DIGITAL VIDEO PRODUCTION I
3 Units
Two hours lecture per week and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 100 C or ACG 101 C or MMCG/ACG 102 C or MMCG/ACG 103 C and ART 120 C or by consent of instructor pending portfolio review. This course focuses on the operation of digital camcorders; lighting and sound equipment and post production digital editing suites; concepts and techniques of nonlinear digital editing, including organization of the editing process; working the time line and audio editing, with emphasis on the principles and aesthetics of video editing. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 121 C  3D MODELING/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 104 C or ACG 105 C and ART 120 C or by consent of instructor pending portfolio review. This course focuses on the operation of digital camcorders; lighting and sound equipment and post production digital editing suites; concepts and techniques of nonlinear digital editing, including organization of the editing process; working the time line and audio editing, with emphasis on the principles and aesthetics of video editing. $15.00 Materials Fee – PAYABLE AT REGISTRATION.
ACG 132 C  ELECTRONIC PAINT/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 100 C or ACG 101 C or ACG 102 C or ACG 103 C and ART 120 C or by consent of instructor pending portfolio review.
The course focus is on the usage of Macintosh based software using a variety of natural-media software for the manipulation of bit-mapped (raster) images. Course topics include creation of original drawings; paintings and illustrations, using an assortment of digitally based chalks, pens, paints, inks, papers and textures. The course offers the professional artist raster based digital drawing/painting and illustration skills, on a Macintosh computer, needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 133 C  ELECTRONIC PAINT/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 100 C or ACG 101 C or ACG 102 C or ACG 103 C and ART 120 C or by consent of instructor pending portfolio review.
The course focus is on the usage of Microsoft Windows based software using a variety of natural-media software for the manipulation of bit-mapped (raster) images using illustrative, photographic, scanned and video images as the basis for image manipulation. Course topics include creation of original drawings; paintings and illustrations, using an assortment of digitally based chalks, pens, paints, inks, papers and textures. The course offers the professional artist raster based digital drawing/painting and illustration skills, on a Microsoft Windows computer, needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 134 C  DIGITAL IMAGING/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 100 C or ACG 101 C or ACG 102 C or ACG 103 C and ART 120 C or by consent of instructor pending portfolio review.
The course focus is on the usage of Macintosh based software for the manipulation of bit-mapped (raster) images using illustrative, photographic, scanned and video images as the basis of image manipulation. Course topics include: image enhancement, editing, composite, retouching, photomontages, prepress, color separations and web-based images. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 135 C  DIGITAL IMAGING/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 100 C or ACG 101 C or ACG 102 C or ACG 103 C and ART 120 C or by consent of instructor pending portfolio review.
The course focus is on the usage of Microsoft Windows based software for the manipulation of bit-mapped (raster) images using illustrative, photographic, scanned and video images as the basis for image manipulation. Course topics include: image enhancement, editing, composite, retouching, photomontages, prepress, color separations and Web-based images. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 136 C  DIGITAL IMAGING 2/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 134 C or ACG 135 C or by consent of instructor pending portfolio review. The course focus is on the advanced usage of Macintosh based software for the manipulation of bit-mapped (raster) images using illustrative, photographic, scanned and video images as the basis for image manipulation. Course topics include image enhancement, editing, composite, retouching, photomontages, prepress, color separations and web based images. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 137 C  DIGITAL IMAGING 2/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 134 C or ACG 135 C or by consent of instructor pending portfolio review. The course focus is on the advanced usage of Windows based software for the manipulation of bit-mapped (raster) images using illustrative, photographic, scanned and video images as the basis for image manipulation. Course topics include image enhancement, editing, composite, retouching, photomontages, prepress, color separations and web based images. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 140 C  DESKTOP PUBLISHING 1/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 100 C or ACG 101 C or ACG 102 C or ACG 103 C and ART 140 C or by consent of instructor pending portfolio review. This course focuses on the use of Macintosh software as an Ad-design tool to generate “digital camera ready” page layouts, integrating graphics, illustrations, photographs and text. Emphasis is placed on design of the page, precision and accuracy allowed by the computer, and varied output options for color composites and separations. Course topics include page design, page layout, text editing, font manipulation, importing artwork, prepress tools, spot and color separations. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 141 C  DESKTOP PUBLISHING 1/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 100 C or ACG 101 C or ACG 102 C or ACG 103 C and ART 140 C or by consent of instructor pending portfolio review. This course focuses on the use of Microsoft Windows software as an Ad-design tool to generate “digital camera ready” page layouts, integrating graphics, illustrations, photographs and text. Emphasis is placed on design of the page, precision and accuracy allowed by the computer, and varied output options for color composites and separations. Course topics include page design, page layout, text editing, font manipulation, importing artwork, prepress tools, spot and color separations. $15.00 Materials Fee – PAYABLE AT REGISTRATION.
ACG 142 C  DESKTOP PUBLISHING 2/MAC
3 Units
Two hours lecture per week and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 140 C or ACG 141 C or by consent of instructor pending portfolio review. This course focuses on the intermediate use of Macintosh software as an Ad-design tool to generate page layouts, integrating graphics, illustrations, photographs and text. Emphasis is placed on the design of multi page layout for various types of publications, prepress, color separation and providing “digital camera ready” files for commercial projects. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 143 C  DESKTOP PUBLISHING 2/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 140 C or ACG 141 C or by consent of instructor pending portfolio review. This course focuses on the intermediate use of Windows software as an Ad-design tool to generate page layouts, integrating graphics, illustrations, photographs and text. Emphasis is placed on the design of multi page layout for various types of publications, prepress, color separation and providing “digital camera ready” files for commercial projects. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 146 C  DESKTOP PUBLISHING 3/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 140 C or ACG 141 C or by consent of instructor pending portfolio review. This course focuses on the advanced use of Macintosh based software as an Ad-design tool to generate digital “camera ready” page layouts, integrating graphics, illustrations, photographs and text. Emphasis on computer assisted layout, design and production techniques used in a “hands on” environment to create Visions magazine. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 147 C  DESKTOP PUBLISHING 3/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 140 C or ACG 141 C or by consent of instructor pending portfolio review. This course focuses on the advanced use of Windows based software as an Ad-design tool to generate digital “camera ready” page layouts, integrating graphics, illustrations, photographs and text. Emphasis on computer assisted layout, design and production techniques used in a “hands on” environment to create Visions magazine. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 150 C  INTERMEDIATE ANIMATION/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 120 C or ACG 121 C or by consent of instructor pending portfolio review. The course focuses on intermediate skills in 3D computer modeling and animation with a Macintosh software program that is a standard in the industry. The course focus is on intermediate techniques in modeling, texturing, lighting, motion control, and rendering animations for various purposes. Skills taught in this course will give students the ability to create original three-dimensional computer generated models of intermediate organic or mechanical design with a high degree of realism and resolution. Animation techniques explored will provide cinematic realism and presentation. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 151 C  INTERMEDIATE ANIMATION/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 120 C or ACG 121 C or by consent of instructor pending portfolio review. The course focuses on intermediate skills in 3D computer modeling and animation with a Windows software program that is a standard in the industry. The course focus is on intermediate techniques in modeling, texturing, lighting, motion control, and rendering animations for various purposes. Skills taught in this course will give students the ability to create original three-dimensional computer generated models of intermediate organic or mechanical design with a high degree of realism and resolution. Animation techniques explored will provide cinematic realism and presentation. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 156 C  ADVANCED ANIMATION/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 150 C or ACG 151 C or by consent of instructor pending portfolio review. The course focuses on advanced skills in 3D computer modeling and animation with a Macintosh software program that is a standard in the industry. The course focus is on advanced techniques in modeling, texturing, lighting, motion control, and rendering animations for various purposes. Skills taught in this course will give students the ability to create original three-dimensional computer generated models of advanced organic or mechanical design with a high degree of realism and resolution. Animation techniques explored will provide cinematic realism and presentation. The course will combine 3D modeling and animation with 2D graphics imagery through mapping, editing techniques and visual effects. $15.00 Materials Fee – PAYABLE AT REGISTRATION.
ACG 157 C  ADVANCED ANIMATION/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 150 C or ACG 151 C or by consent of instructor pending portfolio review. The course focuses on advanced skills in 3D computer modeling and animation with a Windows software program that is a standard in the industry. The course is on advanced techniques in modeling, texturing, lighting, motion control, and rendering animations for various purposes. Skills taught in this course will give students the ability to create original three-dimensional computer generated models of advanced organic or mechanical design with a high degree of realism and resolution. Animation techniques explored will provide cinematic realism and presentation. The course will combine 3D modeling and animation with 2D graphics imagery through mapping, editing techniques and visual effects. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 162 C  MULTIMEDIA WEB DESIGN/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 102 C or ACG 103 C and ART 120 C or by consent of instructor pending portfolio review. The course focuses on the Macintosh generation of multi-media content for integration into interactive visual presentations with a primary focus on web publishing. Students will create personal interactive presentations by using drawings, photographs, charts, graphs, sound, text and 2D animation. The final presentations will use various outputs including Web, CD, DVD and video. The course offers the professional artist Macintosh multi media skills needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 163 C  MULTIMEDIA/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
The course focuses on the Windows generation of multi-media content for integration into interactive visual presentations. Students will create personal interactive presentations by using drawings, photographs, charts, graphs, sound, text and 2D animation. The final presentations will use various outputs including Web, CD, video-tape, color and black and white laser printers etc. The course offers the professional artist Windows multi media skills needed for employment and/or advancement. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 164 C  ADOBE FLASH DESIGNER/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 162 C or ACG 163 C or by consent of instructor pending portfolio review. The course focuses on the advanced usage of Adobe Flash for Macintosh generated multi-media content for integration into interactive visual presentations. Students will create advanced personal interactive presentations for WEB, CD-ROMs, and video display. Current software and hardware tools and techniques for designing and programming interactive multimedia presentations will be explored using Adobe Flash. The course offers the professional artist advanced Macintosh multi media skills needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 165 C  ADOBE FLASH DESIGNER/WIN
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 162 C or ACG 163 C or by consent of instructor pending portfolio review. The course focuses on the advanced usage of Adobe Flash for Windows generated multi-media content for integration into interactive visual presentations. Students will create advanced personal interactive presentations for WEB, CD-ROMs, and video display. Current software and hardware tools and techniques for designing and programming interactive multimedia presentations will be explored using Adobe Flash. The course offers the professional artist advanced Windows multi media skills needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 166 C  ADOBE FLASH DESIGNER/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 162 C or ACG 163 C or by consent of instructor pending portfolio review. The course focuses on the advanced usage of Adobe Flash for Macintosh generated multi-media content for integration into interactive visual presentations. Students will create advanced personal interactive presentations for WEB, CD-ROMs, and video display. Current software and hardware tools and techniques for designing and programming interactive multimedia presentations will be explored using Adobe Flash. The course offers the professional artist advanced Macintosh multi media skills needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 168 C  ADOBE PHOTOSHOP DESIGNER/MAC
3 Units
Two hours lecture and
Three hours laboratory TBA per week.
CSU
Advisory: ACG 152 C or ACG 153 C or by consent of instructor pending portfolio review. The course focuses on the advanced usage of Adobe Photoshop for Macintosh generated multi-media content for integration into interactive visual presentations. Students will create advanced personal interactive presentations for WEB, CD-ROMs, and video display. Current software and hardware tools and techniques for designing and programming interactive multimedia presentations will be explored using Adobe Photoshop. The course offers the professional artist advanced Macintosh multi media skills needed for employment and/or advancement. $15.00 Materials Fee – PAYABLE AT REGISTRATION.
ACG 183 C  PREPRODUCTION FOR FILMMAKERS  
3 Units  
Two hours lecture and  
Three hours laboratory per week.  
CSU  
This course prepares students to make a film by teaching the necessary steps leading up to shooting the film in production. Topics covered include script, proposal, treatment, casting, crew, locations, financing, personnel, permits, unions, and talent.

ACG 184 C  DIGITAL VIDEO EXPLORATIONS  
3 Units (May be taken for credit 3 times)  
Two hours lecture and  
Three hours laboratory TBA per week.  
CSU  
This course focuses on the use of introductory video and audio programs. The use of various basic video input and output devices will be covered. This course is designed for students to input, create, manipulate and output digital video. This class is intended as a gateway into the varied offerings of the Digital Cinema program, where the student can pursue more in-depth study on the topic(s) that most attracted them during this introductory class. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 185 C  DOCUMENTARY DIGITAL CINEMA  
3 Units (May be taken for credit 4 times)  
Two hours lecture and  
Three hours laboratory TBA per week.  
CSU  
This course provides an introduction to contemporary documentary filmmaking techniques used by digital cinema technicians and artists. Hands-on demonstration and lecture and group activities present technical and artistic approaches to documentary productions. Students participate in individual and group projects to produce documentary films. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 186 C  WEDDING & EVENT VIDEOGRAPHY  
3 Units (May be taken for credit 4 times)  
Two hours lecture and  
Three hours laboratory TBA per week.  
CSU  
This course is designed to introduce the student to the aesthetic concepts, basic skills, and techniques used by videographers to create wedding story films. Students will acquire hands on knowledge of Digital Cinema applications and hardware used in wedding story videography. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 187 C  MOTION GRAPHICS II  
3 Units (May be taken for credit 4 times)  
Two hours lecture and  
Three hours laboratory per week.  
CSU  
Advisory: ACG 107 C. Advanced studies in motion graphics design and software. Topics include both technical and aesthetic issues for motion graphic composition and implementation. Students concentrate on one area to explore in depth and further develop their skills. Production workflow is emphasized. Current trends and styles are discussed. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 188 C  VIDEO PRODUCTION II  
3 Units (May be taken for credit 4 times)  
Two hours lecture and  
Three hours laboratory per week.  
CSU  
Advisory: ACG 109 C. This course introduces digital video production techniques including single camera operation and procedures, basic principles and techniques of sound and scriptwriting, and digital video editing. Course topics include the operation of digital camcorders; lighting and sound equipment and post production digital editing suites; concepts and techniques of nonlinear digital editing, including organization of the editing process; working the time line and audio editing, with emphasis on the principles and aesthetics of video editing. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 189 C  DIGITAL CINEMATOGRAPHY II  
3 Units (May be taken for credit 4 times)  
Two hours lecture and  
Three hours laboratory per week.  
UC(pending)/CSU  
Advisory: ACG 182 C. This is an advanced course in digital cinema design and production planning taught through hands-on experience, research and video production. Course topics include digital cinema as a new media tool; synthetic lighting, technological advances in cinematography and emerging tools and techniques. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

ACG 190 C  CONTEMPORARY ART STUDIO  
3 Units (May be taken for credit 4 times)  
Two hours lecture and  
Three hours laboratory per week.  
UC(pending)/CSU  
This is a course in contemporary art making with a special emphasis on new genres and technology-based media, including projects in digital media, installation, performance, video, interdisciplinary media, and other nontraditional media and processes. The course will include lectures, discussions, field trips, and projects that address contemporary art and technology topics.

ACG 191 C  FILM NOIR GENRE  
3 Units  
Three hours lecture per week.  
UC(pending)/CSU  
Advisory: Eligibility for ENGL 100 C. This course is an in depth exploration of Film Noir. The film genre identified by its crime melodramas where private investigators, innocents and deceptive characters live in a world of corruption, betrayal, obsession, intense romantic trysts and sudden violence. Films will be screened from this period in cinema which began in the early 1940’s and continued to the late 1950’s with echoes of the genre emerging up to the present. Students will be required to obtain and view films from a provided list.

ACG 192 C  GREAT DIRECTORS OF CINEMA  
3 Units  
Three hours lecture per week.  
UC(pending)/CSU  
Advisory: Eligibility for ENGL 100 C. A study of historically and aesthetically important film directors focusing on how their work has advanced and defined the art of cinema. The course will explore various directors in terms of themes, stylistic tendencies including use of cinematography tools and social/historical context.
ACG 193 C  INTRODUCTION TO 2D ANIMATION
3 Units (May be taken for credit 4 times)
Two hours lecture and
Three hours laboratory per week.
CSU
Advisory: Art 182 C or ART 185 C or ART 189 C or ART 191 C. An introduction 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.

ACG 199 C  COMPUTER GRAPHICS STUDIO
1/2 - 10 Units (Variable Unit Class) (May be taken for a cumulative total of 10 units)
(Open Entry-Open Exit)
One and one-half to thirty hours laboratory TBA per week.
Pass/No Pass
CSU
This course is designed as an open laboratory for students currently enrolled in Fine Arts Division courses that require completion of digital assignments and/or personal digital portfolio development. This open lab with flexible hours is designed to provide students with space, computers, software, scanners, cameras, printers, and internet access.

ACG 298 C  ACG SEMINAR
1/2 - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to Thirty-six hours laboratory per week.
Pass/No Pass or Standard Grading or Pass/No Pass/Letter Grade Option
CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. Various classes may be offered from semester to semester which are designed to meet the interests and needs of the students. Fee: May be required – PAYABLE AT REGISTRATION.

Asian Studies
TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Astronomy
Division of Science/Engineering/Mathematics

Division Dean – Richard Fee

Faculty
Ron Armale
Michael Frey

Counselors
Deidre Porter

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

Astronomy (ASTR)

ASTRONOMY TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

ASTR 116 C  INTRODUCTION TO ASTRONOMY
3 Units
Three hours lecture per week.
Pass/No Pass
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
This course is an introduction to the ideas, concepts, and theories of astronomy. Topics include the night sky, history of astronomy, the solar system, extra solar planets, stars, the interstellar medium, galaxies and cosmology, and extraterrestrial life in the universe. Visits to local observatories and planetaria may be arranged. High School Algebra or equivalent is recommended. Duplicate credit not granted for ASTR 116HC.

ASTR 116HC  HONORS INTRODUCTION TO ASTRONOMY
3 Units
Three hours lecture per week.
Pass/No Pass
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
This course is an enhanced introduction to the concepts and theories of astronomy. Topics include the night sky, history of astronomy, the solar system, the sun, moon, planets, extra solar planets, stars and the interstellar medium, black holes, galaxies, cosmology, and life in the universe. Visits to local observatories and planetariums may be arranged. Duplicate credit not granted for ASTR 116 C.
PROGRAM LEARNING OUTCOMES (PLOs)

Auto Collision Repair

Upon completion of the Automotive Collision Repair courses students will be able to develop the following skills required by the National Automotive Technology Education Foundation (NATEF) to enhance their employment opportunities and advance their career goals:

- Measure and diagnose structural damage using tram gauges and electronic measuring systems.
- Determine the extent and direction of damage; plan and document the methods and sequence of repairs.
- Remove and replace damaged sections of steel and aluminum body structures.
- Clean and prepare metal to be welded, assure good metal fit-up, clamp and tack weld as required.
- Perform the following welds: continuous, plug, butt weld with and without backing and fillet etc.
- Inspect, remove, store and replace body panels and components that may interfere with or be damaged during repair.
- Straighten contours of damaged panels to a suitable condition for body filling or metal finishing using power tools, hand tools and weld-on pulling attachments.
- Restore corrosion protection throughout all repair areas.
- Demonstrate hammer and dolly techniques including hot and cold shrinking of panel areas to proper contour.
- Mix and apply body filler and sand to correct contour.
- Inspect, adjust, repair or replace window regulators, run channels, glass, power mechanisms, and related controls.
- Perform visual and destructive tests on each type of weld.
- Identify types of plastics; rigid, semi-rigid or flexible and determine reparability.
- Clean, inspect and repair reusable fasteners and identify one-time use fastener.

ASSOCIATE IN SCIENCE DEGREE

AUTOMOTIVE COLLISION REPAIR

Program Code: 1S07832

The following program is designed to prepare students for employment as automotive collision technicians and in numerous other related areas of the automotive and transportation industry. Training is given in both theory and practical skills. Directed practical work is given in all areas of automotive collision repair under simulated on-the-job conditions. The program suggested will provide the student the opportunity to acquire the knowledge and skills demanded of the modern automotive collision technician.
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.

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.

### Electives

**Total Units Required 49**

Select a minimum of 3 Units from the elective courses listed below:

- **ENGL 095 C Effective Writing** 3
- **Alignment and Repair** 4
- **ACR 020AC Auto Detailing & Car Care** 2 1/2
- **ACR 012 C Automotive Damage Appraisal** 3
- **ACR 013 C Computerized Automotive Damage Appraisal** 3

### AUTOMOTIVE COLLISION REPAIR CERTIFICATE

Program Code: 1C21110

Primary emphasis is to prepare the student for occupational competency. To earn a certificate, students must complete the required courses as listed with a minimum grade of "C." At least 50 percent of all course work must be completed at Cypress College.

**Total Units Required 35 1/2**

Select a minimum of 6 Units from the elective courses listed below:

- **ENGL 095 C Effective Writing** 3
- **ACR 020AC Auto Detailing & Car Care** 2 1/2
- **ACR 011 C Auto Painting and Refinishing** 4
- **ACR 010AC Automotive Collision Repair** 6
- **ACR 010BC Advanced Automotive Collision Repair** 6
- **ACR 010CC Advanced Automotive Collision Repair** 6

### AUTOMOTIVE DAMAGE APPRAISAL CERTIFICATE

Program Code: 1K12970

The following program is designed to prepare students for employment as automotive damage appraisers. Training is given in both theory and practical application. Directed practical work is given in all areas of automotive damage appraisal.

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

**Total Units Required 16**

### AUTOMOTIVE PAINT AND REFINISHING CERTIFICATE

Program Code: 1K00036

This program is designed to prepare students with the skills necessary to enter the Auto Paint and Refinishing industry. Training is given in both theory and practical skills. Directed practical work is given in all areas of automotive detailing in a simulated on-the-job environment.

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

**Total Units Required 9**

### ELECTIVES

- **ACR 011 C Auto Painting and Refinishing** 4
- **ACR 012 C Automotive Damage Appraisal** 3
- **ACR 013 C Computerized Automotive Damage Appraisal** 3
- **ACR 010AC Automotive Collision Repair** 6
- **ACR 010BC Advanced Automotive Collision Repair** 6
- **ACR 010CC Advanced Automotive Collision Repair** 6

### AUTOMOTIVE COLLISION REPAIR

**Required courses are listed in suggested sequence:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR 010AC</td>
<td>Automotive Collision Repair</td>
<td>6</td>
</tr>
<tr>
<td>ACR 010BC</td>
<td>Advanced Automotive Collision Repair</td>
<td>6</td>
</tr>
<tr>
<td>ACR 010CC</td>
<td>Advanced Automotive Collision Repair</td>
<td>6</td>
</tr>
<tr>
<td>ACR 010DC</td>
<td>Advanced Automotive Collision Repair</td>
<td>6</td>
</tr>
<tr>
<td>ACR 011 C</td>
<td>Auto Painting and Refinishing</td>
<td>4, 4</td>
</tr>
<tr>
<td>ACR 012 C</td>
<td>Automotive Damage Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>ACR 030 C</td>
<td>Advanced Auto Collision and Electrical Component Repair</td>
<td>4</td>
</tr>
<tr>
<td>ACR 040 C</td>
<td>Automotive Body/Structural Alignment and Repair</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units Required 43**

### AUTOMOTIVE DAMAGE APPRAISAL

**Required courses are listed in numeric sequence:**

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR 010AC</td>
<td>Automotive Collision Repair</td>
<td>6</td>
</tr>
<tr>
<td>ACR 011 C</td>
<td>Auto Painting and Refinishing</td>
<td>4</td>
</tr>
<tr>
<td>ACR 012 C</td>
<td>Automotive Damage Appraisal</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required 16**

### SPECIALTY IN AUTOMOTIVE DETAILING

Program Code: 1K00036

This program is designed to prepare students with the skills necessary to enter the Auto Detailing industry. Training is given in both theory and practical skills. Directed practical work is given under simulated on-the-job conditions.

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

**Total Units Required 9**

### AUTOMOTIVE PAINT AND REFINISHING

**Required courses are listed in suggested sequence:**

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR 020AC</td>
<td>Auto Detailing &amp; Car Care</td>
<td>2 1/2</td>
</tr>
<tr>
<td>ACR 020BC</td>
<td>Advanced Auto Detailing</td>
<td>2 1/2</td>
</tr>
<tr>
<td>ACR 011 C</td>
<td>Auto Painting and Refinishing</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units Required 9**

### AUTOMOTIVE COLLISION REPAIR

**Required courses are listed in suggested sequence:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR 010AC</td>
<td>Automotive Collision Repair</td>
<td>6</td>
</tr>
<tr>
<td>ACR 010BC</td>
<td>Advanced Automotive Collision Repair</td>
<td>6</td>
</tr>
<tr>
<td>ACR 010CC</td>
<td>Advanced Automotive Collision Repair</td>
<td>6</td>
</tr>
<tr>
<td>ACR 010DC</td>
<td>Advanced Automotive Collision Repair</td>
<td>6</td>
</tr>
<tr>
<td>ACR 011 C</td>
<td>Auto Painting and Refinishing</td>
<td>4, 4</td>
</tr>
<tr>
<td>ACR 012 C</td>
<td>Automotive Damage Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>ACR 030 C</td>
<td>Advanced Auto Collision and Electrical Component Repair</td>
<td>4</td>
</tr>
<tr>
<td>ACR 040 C</td>
<td>Automotive Body/Structural Alignment and Repair</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 095 C</td>
<td>Effective Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of 3 Units from the elective courses listed below:

**Total Units Required 49**

### AUTOMOTIVE DAMAGE APPRAISAL

**Required courses are listed in numeric sequence:**

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR 010AC</td>
<td>Automotive Collision Repair</td>
<td>6</td>
</tr>
<tr>
<td>ACR 011 C</td>
<td>Auto Painting and Refinishing</td>
<td>4, 4, 4</td>
</tr>
<tr>
<td>ACR 012 C</td>
<td>Automotive Damage Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>ACR 020AC</td>
<td>Auto Detailing &amp; Car Care</td>
<td>2 1/2</td>
</tr>
<tr>
<td>ACR 070 C</td>
<td>Automotive Color Matching</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 095 C</td>
<td>Effective Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of 6 Units from the elective course list:

**Total Units Required 35 1/2**

### ELECTIVES

- **ACR 020BC Advanced Auto Detailing** 2 1/2
- **ACR 050 C ACR/Special Projects** 2 - 3
- **ACR 060 C Collision Repair Management** 3
- **AT 101 C Survey of the Automobile** 3
- **MKT 208 C Principles of Selling** 3
- **COMM 050 C Effective Oral Communication** 3
AUTOMOTIVE SALES AND SERVICE
CERTIFICATE Program Code: 1K15688
This program is designed to prepare students for customer service and sales positions in the automotive industry. It provides students with a basic knowledge of automobile operations, general maintenance requirements, and damage appraisal procedures along with marketing and management principles. The certificate will enable students to work in a variety of non technical areas in an automobile dealership, repair shop, or insurance company as a service representative, salesperson, or estimator.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 101 C</td>
<td>Survey of the Automobile</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AT 110 C</td>
<td>Automotive Fundamentals</td>
<td>(4)</td>
</tr>
<tr>
<td>ACR 012 C</td>
<td>Automotive Damage Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 208 C</td>
<td>Principles of Selling</td>
<td>3</td>
</tr>
<tr>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
<td>15 - 16</td>
</tr>
</tbody>
</table>

INSURANCE CO/AUTO COLLISION REPAIR
INDUSTRY MANAGEMENT SKILLS
CERTIFICATE Program Code: 1K12982
This program is designed to prepare students for employment as insurance company appraisers and managers of automotive collision repair facilities. It is also designed to give the students knowledge in the auto collision repair process and to develop management skills necessary for success in their chosen profession.

To earn a certificate, students must complete the required courses as 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 numeric sequence:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR 011 C</td>
<td>Auto Painting and Refinishing</td>
<td>4</td>
</tr>
<tr>
<td>ACR 060 C</td>
<td>Collision Repair Management</td>
<td>3</td>
</tr>
<tr>
<td>AT 101 C</td>
<td>Survey of the Automobile</td>
<td>3</td>
</tr>
<tr>
<td>MGT 051 C</td>
<td>Basic Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGT 151 C</td>
<td>Business Mathematics</td>
<td>(3)</td>
</tr>
<tr>
<td>MGT 055 C</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGT 111 C</td>
<td>Business Communications</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

AUTOMOTIVE COLLISION REPAIR (ACR)

ACR 010AC AUTOMOTIVE COLLISION REPAIR
6 Units
Three hours lecture and
Nine hours laboratory per week.
This course covers principles and fundamentals of automotive collision repair with emphasis on tools of the trade and their proper use and metal working characteristics, including auto body sheet metal welding.

ACR 010BC ADVANCED AUTOMOTIVE COLLISION REPAIR
6 Units
Three hours lecture and
Nine hours laboratory per week.
Prerequisite: ACR 010AC with a grade of "C" or better. This course covers the advanced metal straightening, including measuring and straightening equipment; door replacement; repair panel replacement and alignment; front sheet metal repairs and alignment including theory and fundamentals; bumper repair replacement and alignment and bumper energy absorbing systems.

ACR 010CC ADVANCED AUTOMOTIVE COLLISION REPAIR
6 Units
Three hours lecture and
Nine hours laboratory per week.
Prerequisite: ACR 010BC with a grade of "C" or better. This course will cover major body repairs with welded panel replacement, panel alignment, upholstery removal and replacement. Glass removal and replacement with advanced metal work, including straightening of frames and the types of equipment.

ACR 010DC ADVANCED AUTOMOTIVE COLLISION REPAIR
6 Units
Three hours lecture and
Nine hours laboratory per week.
Prerequisite: ACR 010CC with a grade of "C" or better. Students will learn advanced experiences in all areas of auto collision repairs, body electrical systems, MIG, welding, power windows, tail gates, management, employer-employee relations, shop-related business procedures and rust proofing.

ACR 011 C AUTO PAINTING AND REFINISHING
4 Units (May be taken for credit 3 times)
Two hours lecture and
Six hours laboratory per week.
In the first credit students will learn the use of basic auto refinishing materials, equipment, procedures and techniques necessary to properly prepare and refinish the modern automobile. The second credit will teach students how to perform advanced prepping and painting of complete paint jobs and spot blending. In the final section the students will learn the use of basic auto custom painting materials, equipment, procedures, and techniques necessary to properly prepare and paint automotive vehicles.

ACR 012 C AUTOMOTIVE DAMAGE APPRAISAL
3 Units
Three hours lecture per week.
This course is designed to prepare students to enter the field of automotive collision appraisal. Students will learn how to make repair estimates on damaged vehicles. The class will cover frame straightening, glass, paint and use of various manuals.

ACR 013 C COMPUTERIZED AUTOMOTIVE DAMAGE APPRAISAL
3 Units
Three hours lecture per week.
Prerequisite: ACR 012 C or equivalent, or minimum of one year estimating experience. This course is designed for students who have had previous estimating training or some experience in automotive damage appraisal. Students will learn computer-based estimating software used in the collision repair industry. The course will give the student an opportunity to develop skills in computer-assisted estimate writing.
ACR 020AC  AUTO DETAILING & CAR CARE
2 1/2 Units
Two hours lecture and
Two hours laboratory per week.
This course is an introductory automotive detailing and car care course. Detail chemicals, processes, tools and equipment are covered in the class. Topics include the theory, diagnosis of paint conditions, and communication with the customer. Laboratory activities will emphasize skill competency in paint condition identification, washing, waxing, polishing, and interior care.

ACR 020BC  ADVANCED AUTO DETAILING
2 1/2 Units
Two hours lecture and
Two hours laboratory per week.
Prerequisite: ACR 020AC. This is an advanced course in automotive detailing and car care. Topics include: starting a detailing business, location determination, customer service, and advanced detailing techniques. Laboratory activities include receipt and delivery of customer vehicles, use of chemicals, and advanced detailing.

ACR 030 C  ADVANCED AUTO COLLISION AND ELECTRICAL COMPONENT REPAIR
4 Units
Three hours lecture and
Four hours laboratory per week.
Prerequisite: Completion of, or concurrent enrollment in, ACR 010BC, ACR 010CC, or ACR 010DC; or employment in the industry. This course will include advanced techniques in Auto Collision Repair. Topics included are: collision related electrical repairs, supplemental restraint systems (SRS), sheet mold compound (SMC), interior and exterior plastic repairs, plastic welding, bumper energy absorbing systems, air conditioning, sun roofs, metal inert gas welding (MIG), tool repair, aluminum repair and welding. Students are given practical applications for diagnosis, repair and servicing on both laboratory and live projects.

ACR 040 C  AUTOMOTIVE BODY/STRUCTURAL ALIGNMENT AND REPAIR
4 Units
Three hours lecture and
Three hours laboratory per week.
Prerequisite: Completion of, or concurrent enrollment in ACR 010BC, ACR 010CC, or ACR 010DC; or employment in the industry. This course will emphasize the diagnosis and restructuring of the unitized automobile and light truck frame and body, use of manuals, structural restoration, gauge, universal, and dedicated measurement, sectioning techniques, corrosion control, welding techniques, relationship of suspension and structural repair and maintenance of hydraulic pumps and rams.

ACR 050 C  ACR/SPECIAL PROJECTS
2 - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
One hour lecture and
Three to six hours laboratory TBA per week.
Advisory: Completion of, or concurrent enrollment in, ACR 010BC, ACR 010CC, ACR 010DC, ACR 011 C. This course is designed to offer students a supervised independent program to continue and broaden their studies in automotive collision repairs.

ACR 055 C  AUTOMOTIVE COLLISION - WORK EXPERIENCE - VOCATIONAL
1 - 4 Units (Variable Unit Class) (May be taken for credit 4 times)
One hour lecture per week.
Prerequisite: Must be enrolled in seven units, including work experience. Concurrent enrollment in Automotive Collision Program. The course requires a minimum of five hours employment in an automotive collision related occupation per week. Refer to class schedule for an explanation of unit credit.

ACR 060 C  COLLISION REPAIR MANAGEMENT
3 Units
Three hours lecture per week.
This course is designed for those interested in management practices of the collision repair industry. There will be special emphasis on management concepts, productivity control, labor and parts, pricing, essential financial statements and budgeting. In addition, inventory control, customer relations, insurance company billing and negotiation guidelines as applicable to the collision repair industry will be covered.

ACR 070 C  AUTOMOTIVE COLOR MATCHING
3 Units
Three hours lecture per week.
This course is an introduction to the concepts and techniques of matching color applied to automobiles. The course covers color theory, application theory, matching solid colors, metallic and two or three stage colors. The class will be using automotive paint mixing systems. The student will be required to provide certain safety and respiratory protection equipment.

ACR 298 C  AUTOMOTIVE COLLISION REPAIR SEMINAR
1/2 - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to sixty hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a course for students who wish to increase their knowledge of Automotive Collision Repair. Various topics will be offered. Unit credit may range from 1/2 to 12 units in any given semester. Consult the class schedule to verify credit for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.
Automotive Technology

Division of Career Technical Education and Economic Development

Division Dean – Steve Donley

Faculty
John Alexander
Carl Anderson
Michael Beard
Luciano Orozco
Michael Klyde

Toyota T-Ten Coordinator
Don Blanchard

Counselor
Jane Jepson

PROGRAM LEARNING OUTCOMES (PLOs)

Automotive Technology

Students who complete the Automotive Technology field of study will be able to develop the following skills required by the NATEF to enhance their employment opportunities and advance their career goals.

- Diagnose brake system, ABS systems, power booster systems, and suspension components; perform alignment; steering component diagnosis and repairs
- Utilize scan tools, scopes DVOM’s and other test equipment in troubleshooting engine and transmission derivability problems
- Diagnose fuel system problems; service emission controls; diagnose fuel injection and Powertrain Control Module problems
- Diagnose electrical system problems; use test meters; overhaul electrical components.
- Diagnose and repair manual transmission systems, drivelines, differentials and 4-wheel drive/all wheel drive systems
- Diagnosis and repair automatic transmission/transaxle systems, torque converters.
- Diagnose and repair heating and air conditioning systems including automated systems.
- Learn the structure and functions of an internal combustion engine; perform engine overhaul processes and diagnosis of mechanical engine components
- Develop mathematical skills to use in analytical problem solving.
- Function as a shop service manager, shop foreman, or supervisor; learn safety management
- Operate a Computer Customer Records System; perform service manager functions
- Develop effective communication skills in dealing with customers in a simulated automotive business structure.

ASSOCIATE IN SCIENCE DEGREE

AUTOMOTIVE TECHNOLOGY

Program Code: 1S03771

The following program is designed to prepare students for employment as automotive technicians and in numerous other related areas of the automotive and transportation industry. Training is given in both theory and practical skills. Directed practical work is given in all areas of automotive 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 percent 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 120 C</td>
<td>Auto Engine Repair/Machining</td>
<td>12</td>
</tr>
<tr>
<td>AT 130 C</td>
<td>Auto Chassis and Brake Systems</td>
<td>12</td>
</tr>
<tr>
<td>AT 140 C</td>
<td>Auto Transmissions/Drivetrains</td>
<td>12</td>
</tr>
<tr>
<td>AT 150 C</td>
<td>Auto Performance/Driveability</td>
<td>12</td>
</tr>
<tr>
<td>AT 200 C</td>
<td>Electrical/Electronic Diag.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>48</td>
</tr>
</tbody>
</table>

Suggested electives – 25 units of general education course work with advisement from counselor.

AUTOMOTIVE TECHNOLOGY

CERTIFICATE

Program Code: 1C21109

This program is designed to prepare students for employment as automotive technicians. Training is given in both theory and practical skills. Directed practical work is given in all areas of the automotive maintenance and repair under simulated on-the-job conditions. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern automotive technician. The sequence in which courses are taken may be modified to meet individual needs. Primary emphasis is to prepare the student for occupational competency in automotive technology.

To earn a certificate, students must complete the required courses as 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. The student must take AT 160 Basic Electricity and then choose four of the five listed 12 units courses:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 105 C</td>
<td>Basic Automotive Electricity</td>
<td>4</td>
</tr>
<tr>
<td>AT 120 C</td>
<td>Auto Engine Repair/Machining</td>
<td>12</td>
</tr>
<tr>
<td>AT 130 C</td>
<td>Auto Chassis and Brake Systems</td>
<td>12</td>
</tr>
<tr>
<td>AT 140 C</td>
<td>Auto Transmissions/Drivetrains</td>
<td>12</td>
</tr>
<tr>
<td>AT 150 C</td>
<td>Auto Performance/Driveability</td>
<td>12</td>
</tr>
<tr>
<td>or</td>
<td>AT 200 C Electrical/Electronic Diag.</td>
<td>(12)</td>
</tr>
<tr>
<td>AT Select a minimum of 3 units from</td>
<td></td>
<td></td>
</tr>
<tr>
<td>the elective courses listed below</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>55</td>
</tr>
</tbody>
</table>
### Electives

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 050 C</td>
<td>Auto Tech/Special Projects</td>
<td>½ - 3</td>
</tr>
<tr>
<td>AT 101 C</td>
<td>Survey of the Automobile</td>
<td>3</td>
</tr>
<tr>
<td>AT 110 C</td>
<td>Automotive Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>AT 115 C</td>
<td>Automotive Air Conditioning</td>
<td>4</td>
</tr>
<tr>
<td>AT 161 C</td>
<td>Diagnostics &amp; Digital Meters</td>
<td>1</td>
</tr>
<tr>
<td>AT 162 C</td>
<td>Diagnostics &amp; Digital Scopes</td>
<td>2</td>
</tr>
<tr>
<td>AT 163 C</td>
<td>Diagnostics &amp; Scan-Tools</td>
<td>2</td>
</tr>
<tr>
<td>AT 164 C</td>
<td>Diagnostics &amp; OBD II</td>
<td>2</td>
</tr>
<tr>
<td>AT 170 C</td>
<td>Basic Area Clean Air Car</td>
<td>5</td>
</tr>
<tr>
<td>AT 171 C</td>
<td>Advanced Clean Air Car Course</td>
<td>2</td>
</tr>
<tr>
<td>AT 180 C</td>
<td>Intro to Alternative Fuels</td>
<td>3</td>
</tr>
<tr>
<td>AT 181 C</td>
<td>Intro Electric/Hybrid Vehicles</td>
<td>2</td>
</tr>
<tr>
<td>AT 190 C</td>
<td>Toyota Engine Diagnosis/Repair</td>
<td>4</td>
</tr>
<tr>
<td>AT 191 C</td>
<td>Toyota Auto Trans Diag/Repair</td>
<td>6</td>
</tr>
<tr>
<td>AT 192 C</td>
<td>Toyota Manual Trans/Drivelines</td>
<td>4</td>
</tr>
<tr>
<td>AT 201 C</td>
<td>Toyota Basic Electrical 623</td>
<td>2</td>
</tr>
<tr>
<td>AT 202 C</td>
<td>Toyota Body Electrical 652</td>
<td>1</td>
</tr>
<tr>
<td>AT 203 C</td>
<td>Toyota Controls 752</td>
<td>2</td>
</tr>
<tr>
<td>AT 204 C</td>
<td>Toyota Suspension Systems 452</td>
<td>1</td>
</tr>
<tr>
<td>AT 205 C</td>
<td>Toyota Brake Systems 552</td>
<td>1</td>
</tr>
<tr>
<td>AT 206 C</td>
<td>Toyota Air Conditioning 752</td>
<td>1</td>
</tr>
<tr>
<td>AT 207 C</td>
<td>Toyota Automatic Trans 262</td>
<td>1½</td>
</tr>
<tr>
<td>AT 208 C</td>
<td>Toyota Manual Trans 302</td>
<td>1</td>
</tr>
<tr>
<td>AT 220 C</td>
<td>Lower Engine Blueprinting</td>
<td>2</td>
</tr>
<tr>
<td>AT 221 C</td>
<td>Upper Engine Blueprinting</td>
<td>2</td>
</tr>
<tr>
<td>AT 250 C</td>
<td>Adv Performance/Driveability</td>
<td>4</td>
</tr>
<tr>
<td>AT 298 C</td>
<td>Automotive Service Seminar</td>
<td>½ - 3</td>
</tr>
<tr>
<td>MRN 060 C</td>
<td>Diesel Engines</td>
<td>6</td>
</tr>
<tr>
<td>ENGL 095 C</td>
<td>Effective Writing</td>
<td>3</td>
</tr>
<tr>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
</tbody>
</table>

### Required courses are listed in numeric sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 105 C</td>
<td>Basic Automotive Electricity</td>
<td>4</td>
</tr>
<tr>
<td>AT 161 C</td>
<td>Diagnostics &amp; Digital Meters</td>
<td>1</td>
</tr>
<tr>
<td>AT 162 C</td>
<td>Diagnostics &amp; Digital Scopes</td>
<td>2</td>
</tr>
<tr>
<td>AT 163 C</td>
<td>Diagnostics &amp; Scan-Tools</td>
<td>2</td>
</tr>
<tr>
<td>AT 164 C</td>
<td>Diagnostics &amp; OBD II</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Total Units Required 11

### AUTOMOTIVE TECHNOLOGY CERTIFICATE – EMISSION CONTROL SPECIALIST

**Program Code:** 1K12973

This program is designed to prepare students for employment as an automotive emission control 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 emission control technicians. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern automotive emission control specialist.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 050 C</td>
<td>Auto Tech/Special Projects</td>
<td>2</td>
</tr>
<tr>
<td>AT 105 C</td>
<td>Basic Auto Electricity</td>
<td>4</td>
</tr>
<tr>
<td>AT 170 C</td>
<td>Basic Area Clean Air Car</td>
<td>5</td>
</tr>
<tr>
<td>AT 171 C</td>
<td>Advanced Clean Air Car Course</td>
<td>2</td>
</tr>
<tr>
<td>AT 250 C</td>
<td>Adv Performance/Driveability</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Total Units Required 17

### AUTOMOTIVE TECHNOLOGY CERTIFICATE – ENGINE SPECIALIST

**Program Code:** 1K12974

This program is designed to prepare students for employment as an automotive engine repair specialist. 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 engine repair technicians and machinists. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern automotive engine specialist.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 120 C</td>
<td>Auto Engine Repair/Machining</td>
<td>12</td>
</tr>
<tr>
<td>AT 105 C</td>
<td>Basic Automotive Electricity</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Total Units Required 16

### AUTOMOTIVE TECHNOLOGY CERTIFICATE – BRAKE AND ALIGNMENT SPECIALIST

**Program Code:** 1K12972

This program is designed to prepare 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 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, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 130 C</td>
<td>Auto Chassis and Brake Systems</td>
<td>12</td>
</tr>
<tr>
<td>AT 105 C</td>
<td>Basic Automotive Electricity</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Total Units Required 16

### AUTOMOTIVE TECHNOLOGY – ELECTRICAL SYSTEMS SPECIALIST

**Program Code:** 1K00057

This program is designed to prepare students for employment as an automotive electrical system 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. The sequence in which the courses are taken may be modified to meet individual needs.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.
AUTOMOTIVE TECHNOLOGY CERTIFICATE – MAINTENANCE TECHNICIAN  
Program Code: Pending

This program is designed to prepare students for employment as automotive maintenance technicians in dealerships and independent repair shops. 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 maintenance technicians. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern maintenance technician. The sequence in which courses are taken may be modified to meet individual needs.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 110 C</td>
<td>Automotive Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>AT 105 C</td>
<td>Basic Automotive Electricity</td>
<td>4</td>
</tr>
<tr>
<td>AT 111 C</td>
<td>Automotive Quick Service</td>
<td>12</td>
</tr>
<tr>
<td>AT 130 C</td>
<td>Auto Chassis and Brake Systems</td>
<td>12</td>
</tr>
<tr>
<td>AT 150 C</td>
<td>Auto Performance/Driveability</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>44</td>
</tr>
</tbody>
</table>

AUTOMOTIVE TECHNOLOGY CERTIFICATE – PERFORMANCE AND DRIVEABILITY SPECIALIST  
Program Code: 1K12975

This program is designed to prepare students for employment as an automotive performance and driveability 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 driveability technicians. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern automotive performance and driveability specialist. The sequence in which courses are taken may be modified to meet individual needs.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 110 C</td>
<td>Automotive Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>AT 105 C</td>
<td>Basic Automotive Electricity</td>
<td>4</td>
</tr>
<tr>
<td>AT 111 C</td>
<td>Automotive Quick Service</td>
<td>12</td>
</tr>
<tr>
<td>AT 130 C</td>
<td>Auto Chassis and Brake Systems</td>
<td>12</td>
</tr>
<tr>
<td>AT 150 C</td>
<td>Auto Performance/Driveability</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>44</td>
</tr>
</tbody>
</table>

AUTOMOTIVE SALES AND SERVICE CERTIFICATE  
Program Code: 1K15688

This program is designed to prepare students for customer service and sales positions in the automotive industry. It provides students with a basic knowledge of automobile operations, general maintenance requirements, and damage appraisal procedures along with marketing and management principles. The certificate will enable students to work in a variety of non technical areas in an automobile dealership, repair shop, or insurance company as a service representative, salesperson, or estimator.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 101 C</td>
<td>Survey of the Automobile</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AT 110 C</td>
<td>4</td>
</tr>
<tr>
<td>ACR 012 C</td>
<td>Automotive Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 208 C</td>
<td>Principles of Selling</td>
<td>3</td>
</tr>
<tr>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>15 - 16</td>
</tr>
</tbody>
</table>

AUTOMOTIVE TECHNOLOGY CERTIFICATE – SERVICE ADVISOR  
Program Code: Pending

This program is designed to prepare students for employment as an automotive service advisor. Course work includes theory and operation of all automotive systems, the use of test instruments, and skill competency in the ability to write service work. The program will provide the student the opportunity to acquire the knowledge and skills demanded of the modern automotive service advisor. The sequence in which the courses are taken may be modified to meet individual needs.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 110 C</td>
<td>Automotive Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>AT 105 C</td>
<td>Basic Automotive Electricity</td>
<td>4</td>
</tr>
<tr>
<td>AT 275 C</td>
<td>Automotive Svc Advisor Intern</td>
<td>4</td>
</tr>
<tr>
<td>AT 209 C</td>
<td>Toyota Portfolio TPORT</td>
<td>1-2</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>12-14</td>
</tr>
</tbody>
</table>

AUTOMOTIVE TECHNOLOGY CERTIFICATE – TOYOTA TECHNICIAN  
Program Code: Pending

This program is designed to prepare students for employment as a Toyota Technician. Training is given in theory and practical skills. Directed practical work is given in all areas of automotive maintenance and repair. 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 automotive technician working in a Toyota dealership. The sequence in which courses are taken may be modified to meet individual needs.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 209 C</td>
<td>Toyota Portfolio TPORT</td>
<td>1-2</td>
</tr>
<tr>
<td>AT 211 C</td>
<td>Toyota Professional Series I</td>
<td>6</td>
</tr>
<tr>
<td>AT 212 C</td>
<td>Toyota Professional Series II</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>13-14</td>
</tr>
</tbody>
</table>
AUTOMOTIVE TECHNOLOGY CERTIFICATE – TOYOTA SPECIALIST  Program Code: 1C16598
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, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 105 C</td>
<td>Basic Automotive Electricity</td>
<td>4</td>
</tr>
<tr>
<td>AT 115 C</td>
<td>Automotive Air Conditioning</td>
<td>4</td>
</tr>
<tr>
<td>AT 130 C</td>
<td>Auto Chassis and Brake Systems</td>
<td>12</td>
</tr>
<tr>
<td>AT 150 C</td>
<td>Auto Performance/Driveability</td>
<td>12</td>
</tr>
<tr>
<td>AT 190 C</td>
<td>Toyota Engine Diagnosis/Repair</td>
<td>4</td>
</tr>
<tr>
<td>AT 191 C</td>
<td>Toyota Auto Trans Diag/Repair</td>
<td>4</td>
</tr>
<tr>
<td>AT 192 C</td>
<td>Toyota Manual Trans/Drivelines</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>46</td>
</tr>
</tbody>
</table>

AUTOMOTIVE TECHNOLOGY CERTIFICATE – TRANSMISSION SPECIALIST  Program Code: 1K12976
This program is designed to provide technical skills and in-depth knowledge necessary for the student to enter the motorcycle maintenance and performance field with all the necessary skills to perform entry-level work, as well as to have a thorough understanding of theory so as to be qualified to participate in advanced training at the dealership or manufacturer.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 105 C</td>
<td>Basic Auto Electricity</td>
<td>4</td>
</tr>
<tr>
<td>AT 100 C</td>
<td>Technician Safety</td>
<td>3</td>
</tr>
<tr>
<td>MT 101 C</td>
<td>Fuel, Lubrication &amp; Cooling</td>
<td>4</td>
</tr>
<tr>
<td>MT 102 C</td>
<td>Motorcycle Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>MT 140 C</td>
<td>Motorcycle Tune-up &amp; Service</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>15</td>
</tr>
</tbody>
</table>

MOTORCYCLE PERFORMANCE TECHNICIAN CERTIFICATE  Program Code 1K18810
This program is designed to provide technical skills and in-depth knowledge necessary for the student to enter the motorcycle maintenance and performance field with all the necessary skills to perform entry-level work, as well as to have a thorough understanding of theory so as to be qualified to participate in advanced training at the dealership or manufacturer.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 200 C</td>
<td>Electrical/Electronic Diag.</td>
<td>12</td>
</tr>
<tr>
<td>AT 105 C</td>
<td>Basic Auto Electricity</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>16</td>
</tr>
</tbody>
</table>

Automotive Technology (AT)

AT 050 C  AUTO TECH/SPECIAL PROJECTS  1/2 - 3 Units (Variable Unit Class) (May be taken for credit 3 times)
One and one-half to nine hours laboratory TBA per week.
This course will include supervised independent lab work on lab units and “live” vehicles. It is designed to allow the student to gain more practical experience repairing components and servicing automotive systems. Only approved project work will be allowed.

AT 100 C  TECHNICIAN SAFETY  1 Unit (May be taken for credit 4 times)
One hour lecture and three hours laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course covers the concepts and practices of a safe industrial work environment, including the use of tools and equipment, handling materials, rigging, fire prevention, power tools, accident investigation, personal protective equipment, hearing safety and the correct use of body mechanics will be covered.

AT 101 C  SURVEY OF THE AUTOMOBILE  3 Units
Three hours lecture per week.
CSU
This course provides fundamental knowledge of the automobile, including engines, power trains, suspension and brakes, electrical and fuel systems. Other areas of instruction will be in the use of tools and equipment normally used in automotive service and repair.
AT 102 C  AUTOMOTIVE HISTORY
3 Units
Three hours lecture per week.
CSU
This course details the growth of the automotive industry in the U.S. from the late 1890’s through the global business climate of today. Topics include biographical sketches of industry pioneers, geographical why’s and where’s of the industry, the roots of automotive design, and an in depth review of major engineering achievements. The course includes visits to historical automotive collections at a cost not to exceed $40.00.

AT 105 C  BASIC AUTOMOTIVE ELECTRICITY
4 Units
Three hours lecture and
Three hours laboratory per week.
CSU
This course introduces the concepts of electrical systems and electronic control of the automobile. Areas covered will include basic electrical concepts, batteries, starting systems, charging systems, and body electrical diagnosis. Course instruction will consist of lecture, demonstration, web based learning with student application in the use of test equipment on simulator boards and “on-car” diagnosis with electrical wiring diagrams, charts, and schematics. $15.00 Materials Fee – Payable at Registration.

AT 110 C  AUTOMOTIVE FUNDAMENTALS
4 Units
Three hours lecture and
Three hours laboratory per week.
CSU
This course provides fundamental knowledge of the automobile, including engines, power trains, suspension and brakes, electrical and fuel systems. Other areas of instruction will be in the use of tools and equipment normally used in automotive service and repair. Emphasis will be on the operating principles, nomenclature of car care, inspection, preventive maintenance, and minor repair procedures.

AT 111 C  AUTOMOTIVE QUICK SERVICE
12 Units
Nine hours lecture and
Nine hours laboratory per week.
CSU
Advisory: AT 110 C. This course covers the essential content and skill practice for a technician to perform quick service skills including, shop safety, correct use of required tools, service information use, repair order write up/documentation, vehicle inspection, oil change, fluid flush and other quick service maintenance work.

AT 115 C  AUTOMOTIVE AIR CONDITIONING
4 Units
Three hours lecture and
Three hours laboratory per week.
CSU
This course emphasizes the acquisition of the practical skills needed to both understand principles of refrigeration and perform system diagnosis and repair. Demonstrated lecture, shop lab simulators and “live” vehicles will be used to learn service diagnosis, repair and installation of air conditioning systems including automatic temperature control. Safety and environmental concerns along with CFC recovery, recycling, retrofitting, and R-134A will be covered.

AT 120 C  AUTO ENGINE REPAIR/MACHINING
12 Units
Nine hours lecture and
Nine hours laboratory per week.
CSU
Advisory: AT 101 C or AT 110 C or AT 105 C. This course covers the acquisition of practical skills needed for accurate internal combustion engine diagnosis and repair and all phases of engine rebuilding machine work. Demonstrated lecture, simulated problem diagnosis, and practical application on “live” vehicles will be used. Individualized instruction on Automotive rebuilding tools and machinery is an integral part of this course. Engine theory, design, repair, practical and theoretical high performance modifications are part of the course. Preparation for ASE certification tests A1, MQ1, MG2, and MG3 will be covered. $15.00 Materials Fee – Payable at Registration.

AT 130 C  AUTO CHASSIS AND BRAKE SYSTEMS
12 Units
Nine hours lecture and
Nine hours laboratory per week.
CSU
Prerequisite: Completion of or concurrent enrollment in AT 110 C with a minimum grade of “C”. This course emphasizes the design, operating principles, service, repair and diagnosis of chassis and brake systems used on today’s vehicles. Major topics of study will include: wheel alignment procedures, tire and wheel balance, suspension and steering system repair, hydraulics, and brake system service and repair. Application will be applied under simulated repair shop procedures using “live” vehicles. Preparation for ASE (A4 and A5) certification is covered. $15.00 Materials Fee – Payable at Registration.

AT 140 C  AUTO TRANSMISSIONS/DRIVETRAINS
12 Units
Nine hours lecture and
Nine hours laboratory per week.
CSU
Advisory: AT 105 C and AT 101 C or AT 110 C. This course will include operation principles, design, repair, overhaul and service procedures of automatic transmissions, 4 and 5 speed synchronized transmissions, clutch assemblies, drive lines, final drive axles and trans-axle units. Demonstrated lectures and shop laboratory work on automatic transmissions will be covered with emphasis on procedures to industry standards. Practical application will be under simulated shop conditions on “live” vehicles. Preparation of ASE certification will be covered. $15.00 Materials Fee – Payable at Registration.

AT 150 C  AUTO PERFORMANCE/DRIVEABILITY
12 Units
Nine hours lecture and
Nine hours laboratory per week.
CSU
Advisory: AT 105 C and AT 101 C or AT 110 C. This course will include operation principles, design, repair, overhaul and service procedures to automatic transmissions, 4 and 5 speed synchronized transmissions, clutch assemblies, drive lines, final drive axles and trans-axle units. Demonstrated lectures and shop laboratory work on automatic transmissions will be covered with emphasis on procedures to industry standards. Practical application will be under simulated shop conditions on “live” vehicles. Preparation for ASE certification will be covered. $15.00 Materials Fee – Payable at Registration.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture</th>
<th>Laboratory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 161 C</td>
<td>DIAGNOSTICS &amp; DIGITAL METERS</td>
<td>1 Unit</td>
<td>One hour lecture per week</td>
<td></td>
<td>This course covers concepts of testing electrical and electronic circuits of an automobile using a multi-meter. Advanced diagnostic concepts and circuit testing of automobile systems is a large component of the course. Demonstrated lecture in conjunction with collaborative work groups is emphasized. Practical application in the use of multi-meters on live circuits and simulator boards is an integral part of the course.</td>
</tr>
<tr>
<td>AT 162 C</td>
<td>DIAGNOSTICS &amp; DIGITAL SCOPES</td>
<td>2 Units</td>
<td>One and a half hour lecture and laboratory per week</td>
<td></td>
<td>This course includes advanced principles and procedures of power train control diagnosis. Demonstrated lectures in conjunction with shop laboratory work using digital storage oscilloscopes is included. Practical application under simulated shop conditions on &quot;live&quot; vehicles is an integral component of this course. Topics include lab scope functions, sensor evaluation and analysis, actuator diagnosis and circuit testing.</td>
</tr>
<tr>
<td>AT 163 C</td>
<td>DIAGNOSTICS &amp; SCAN-TOOLS</td>
<td>2 Units</td>
<td>One and a half hour lecture and laboratory per week</td>
<td></td>
<td>This course emphasizes diagnostic strategies, repair and service of power-train control systems using scan tools. Demonstrated lecture in combination with shop laboratory activities using a variety of scan-tools is included. Practical application on &quot;live&quot; vehicles is an integral part of the course. Topics include testing engine control systems, diagnostic trouble codes, data stream, OBD I and OBD II systems.</td>
</tr>
<tr>
<td>AT 164 C</td>
<td>DIAGNOSTICS &amp; OBD II</td>
<td>2 Units</td>
<td>One and a half hour lecture and laboratory per week</td>
<td></td>
<td>This course emphasizes operating principles, diagnostic strategies and repair procedures of the OBD II system. Demonstrated lecture in conjunction with shop laboratory work are emphasized. Practical application on laboratory vehicles is an integral component of the course. This course meets Bureau of Automotive Repair requirements for smog check technician licensing.</td>
</tr>
<tr>
<td>AT 170 C</td>
<td>BASIC AREA CLEAN AIR CAR</td>
<td>5 Units</td>
<td>Five hours lecture per week</td>
<td></td>
<td>This course prepares students for the State of California Licensed Smog Check Mechanic Test. Modern diagnostic equipment including BAR 97 chassis dynamometer will be used in sessions.</td>
</tr>
<tr>
<td>AT 171 C</td>
<td>ADVANCED CLEAN AIR CAR COURSE</td>
<td>2 Units</td>
<td>Two hours lecture per week</td>
<td></td>
<td>This course covers operating procedures, diagnostic strategies, and repair procedures for loaded mode emissions testing. Course emphasizes baseline techniques, five gas analysis and lab scope use. Course meets California BAR Smog Check licensing requirements.</td>
</tr>
<tr>
<td>AT 180 C</td>
<td>INTRODUCTION TO ALTERNATIVE FUELS</td>
<td>3 Units</td>
<td>Three hours lecture and laboratory per week</td>
<td></td>
<td>This course is an introductory course on alternative fuels as used in the transportation industry. Various fuels will be compared, with an emphasis on compressed natural gas. Topics include the theory, design, operation, conversion, diagnosis, and repair of gaseous fuel systems. Laboratory activities will emphasize skill competency in vehicle preparation, fuel system conversion and the diagnosis and repair of alternative fuel vehicles.</td>
</tr>
<tr>
<td>AT 181 C</td>
<td>INTRODUCTION ELECTRIC/HYBRID VEHICLES</td>
<td>2 Units</td>
<td>Two hours lecture and laboratory per week</td>
<td></td>
<td>This course is an introductory course in electric (EV) and electric/hybrid vehicles as used in the transportation industry. Topics include the theory, design, operation, maintenance, and repair of batteries, motors, controllers, chargers, and regenerative braking systems. Technician safety is also covered.</td>
</tr>
<tr>
<td>AT 190 C</td>
<td>TOYOTA ENGINE DIAGNOSIS/REPAIR</td>
<td>4 Units</td>
<td>Three hours lecture and laboratory per week</td>
<td></td>
<td>This course covers the design, operation, diagnosis, and repair of Toyota engines. Emphasis is on the mastery of job skills commonly required to succeed at the dealership level. Learning strategies include: demonstrated lecture; simulated problem diagnosis; practical application on “live” vehicles; group and individual activities. Preparation for ASE and Toyota certification will be covered.</td>
</tr>
<tr>
<td>AT 191 C</td>
<td>TOYOTA AUTO TRANS DIAG/REPAIR</td>
<td>6 Units</td>
<td>Four hours lecture and laboratory per week</td>
<td></td>
<td>This course covers the design, operation, diagnosis, and repair of Toyota automatic transmissions. Emphasis is on the mastery of job skills commonly required to succeed at the dealership level. Learning strategies include: demonstrated lecture; simulated problem diagnosis; practical application on “live” vehicles; group and individual activities. Preparation for ASE and Toyota certification will be covered.</td>
</tr>
<tr>
<td>AT 192 C</td>
<td>TOYOTA MANUAL TRANS/DRIVELINES</td>
<td>4 Units</td>
<td>Three hours lecture and laboratory per week</td>
<td></td>
<td>This course covers the design, operation, diagnosis, and repair of Toyota manual transmissions, and drivelines. Emphasis is on the mastery of job skills commonly required to succeed at the dealership level. Learning strategies include: demonstrated lecture; simulated problem diagnosis; practical application on “live” vehicles; group and individual activities. Preparation for ASE and Toyota certification will be covered.</td>
</tr>
</tbody>
</table>
AT 195 C  AUTOMOTIVE SERVICE ADVISOR  
4 Units  
Three hours lecture and  
Three hours laboratory per week.  
CSU  
Advisory: AT 110 C. This is a course in the concepts and application of the Service Advisor’s job duties primarily as they apply to job skills required in the service department of new vehicle dealerships. Course instruction will include lecture, role playing, repair order writing, interactive computer based assignments, use of dealer management software, site visits and demonstration of knowledge in a simulated work environment.

AT 200 C  ELECTRONIC/ELECTRICAL DIAGNOSTICS  
12 Units  
Ten hours lecture and  
Eight hours laboratory per week.  
CSU  
Prerequisite: AT 105 C with a minimum grade of “C”. Advisory: AT 150 C. This course emphasizes operating principles, design and repair procedures of automotive electrical/electronic systems. In addition, lighting systems, power windows, power door locks, under dash components, charging systems, starters, batteries, and computerized engine management systems will be covered. Modern test equipment such as engine analyzers will be used. Skill competency development will be simulated under shop conditions on OBD II and newer vehicles. $15.00 Materials Fee – Payable at Registration.

AT 201 C  TOYOTA BASIC ELECTRICAL 623  
2 Units  
Two hours lecture per week.  
CSU  
This course is designed to give a basic understanding of Toyota electrical concepts and troubleshooting techniques, and to give in-depth knowledge of the operation, diagnosis, and repair of the battery, starter, and charging system.

AT 202 C  TOYOTA BODY ELECTRICAL 652  
1 Unit  
One hour lecture per week.  
CSU  
This course is designed to familiarize the technician with a basic understanding of Toyota body electrical concepts and troubleshooting techniques, and to give them in-depth knowledge of the operation, diagnosis, and repair of body computer systems on the vehicle-supplemental restraint systems included.

AT 203 C  TOYOTA ENGINE CONTROLS 852  
2 Units  
Two hours lecture per week.  
CSU  
This course is designed to familiarize the technician with a basic understanding of theory, training, and operation of the Toyota engine control systems. Diagnosis and troubleshooting are covered.

AT 204 C  TOYOTA SUSPENSION SYSTEMS 452  
1 Unit  
One hour lecture per week.  
CSU  
This course is designed to familiarize the technician with information regarding Toyota suspension components and suspension design, alignment geometry and types of wheel alignment, pre-alignment inspection, Toyota electrical modulated suspensions and noise vibration harshness.

AT 205 C  TOYOTA BRAKE SYSTEMS 552  
1 Unit  
One hour lecture per week.  
CSU  
This course is designed to familiarize the technician with Toyota information regarding the following: brake system components, operation and adjustments, disc and drum refinishing, anti-lock brake systems, diagnosis and testing of ABS and actuator checker operation.

AT 206 C  TOYOTA AIR CONDITIONING 752  
1 Unit  
One hour lecture per week.  
CSU  
This course is designed to familiarize the technician with fundamental operating principles of the Toyota automotive climate control systems including components, operation, and servicing. Handling of R-12 and R-134 will be included.

AT 207 C  TOYOTA AUTOMATIC TRANS 262  
1½ Units  
One and one-half hours lecture per week.  
CSU  
This course is designed to familiarize the technician with the operation of Toyota automatic transmissions. Both rear wheel drive and front wheel drive transmissions are covered. This course also covers the operation, diagnosis and service of the torque converter, planetary gear train and holding devices and the valve body.

AT 208 C  TOYOTA MANUAL TRANS 302  
1 Unit  
One hour lecture per week.  
CSU  
This course is designed to familiarize the technician with Toyota manual transmissions and transaxles. Topics include: drive nuts, manual transmissions and transaxles. Factory manuals, tools and components are utilized.

AT 209 C  TOYOTA PORTFOLIO TPORT  
½ Unit  
One hour lecture per week.  
CSU  
This course tracks the progress of T-TEN students through the program. This course will also prepare the student for placement in the dealership internship. This course must be taken every semester the student is in the T-TEN program.
AT 210 C  TOYOTA HYBRID VEHICLES
½ Unit
One-half hour lecture per week.
CSU
This course is designed to familiarize experienced technicians with operating principles of the Toyota Hybrid System. This course will emphasize service, repair and diagnostic procedures for the Toyota Prius power-train system. Specialized emission control equipment, fuel tank, brake system, and electric power steering operation as they relate to the hybrid system will be covered.

AT 211 C  TOYOTA PROFESSIONAL SERIES I
6 Units
Six hours lecture per week.
CSU
This course is designed to familiarize the technician with a basic understanding in three of the Toyota training course; Basic Electrical (623), Body Electrical (653), Engine Controls (852) and Hybrid Vehicles. Diagnosis and Troubleshooting are covered. $15.00 Materials Fee – Payable at Registration.

AT 212 C  TOYOTA PROFESSIONAL SERIES II
6 Units
Six hours lecture per week.
CSU
This course is designed to familiarize the technician with a basic understanding of Toyota Suspension Systems (453), Toyota Brake Systems (553), Toyota Air Conditioning (752), Toyota Automatic Transmissions (274), Toyota Manual Transmissions (302), Diagnosis and Troubleshooting are covered. $15.00 Materials Fee – Payable at Registration.

AT 215 C  ASE TEST PREP – HEATING & A/C
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
CSU
This is a review course and is designed to help prepare students to take and pass the ASE (National Institute for Automotive Service Excellence) automatic transmission certification test. This course will review the various task lists which detail the knowledge that a technician must have to pass the ASE automatic transmission certification test. Demonstrated lecture will include instruction concerning theory, operation, diagnosis, and repair of the automatic climate control systems.

AT 220 C  LOWER ENGINE BLUEPRINTING
2 Units
Two hours lecture per week.
CSU
The course emphasizes the design, operation, and modification of modern engines. Students will learn how to use formulas, and software to design and modify the lower engine assembly. Students will also learn how to use precision tools to measurements in accordance with blueprint specifications.

AT 221 C  UPPER ENGINE BLUEPRINTING
2 Units
Two hours lecture per week.
CSU
This course emphasizes the design, operation, and modification of modern engines. Students will learn how to use formulas, and software to design and modify the upper engine assembly. Students will also learn how to modify and prepare cylinder heads, intake systems and exhaust systems to optimize engine performance.

AT 225 C  ASE TEST PREP – ENGINE REPAIR
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
CSU
This is a review course and is designed to help prepare students to take and pass the ASE (National Institute for Automotive Service Excellence) engine repair certification test. This course will review the various task lists which detail the knowledge that a technician must have to pass the ASE engine repair certification test. Demonstrated lecture will include instruction concerning theory, operation, diagnosis, and repair of the automotive engine.

AT 235 C  ASE TEST PREP – BRAKES
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
CSU
This is a review course and is designed to help prepare students to take and pass the ASE (National Institute for Automotive Service Excellence) brake certification test. This course will review the various task lists which detail the knowledge that a technician must have to pass the ASE brake certification test. Demonstrated lecture will include instruction concerning theory, operation, diagnosis, and repair of the automotive brake systems.

AT 236 C  ASE TEST PREP – STEERING/SUSP
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
CSU
This is a review course and is designed to help prepare students to take and pass the ASE (National Institute for Automotive Service Excellence) steering and suspension certification tests. This course will review the various task lists which detail the knowledge that a technician must have to pass the ASE steering and suspension certification tests. Demonstrated lecture will include instruction concerning theory, operation, diagnosis, and repair of the automotive steering and suspension systems.

AT 245 C  ASE TEST PREP – MANUAL TRANS
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
CSU
This is a review course and is designed to help prepare students to take and pass the ASE (National Institute for Automotive Service Excellence) manual transmission and drive-train certification tests. This course will review the various task lists which detail the knowledge that a technician must have to pass the ASE manual transmission certification test. Demonstrated lecture will include instruction concerning theory, operation, diagnosis, and repair of manual transmission and drive-train systems.

AT 246 C  ASE TEST PREP – AUTOMATIC TRANS
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
CSU
This is a review course and is designed to help prepare students to take and pass the ASE (National Institute for Automotive Service Excellence) automatic transmission certification test. This course will review the various task lists which detail the knowledge that a technician must have to pass the ASE automatic transmission certification test. Demonstrated lecture will include instruction concerning theory, operation, diagnosis, and repair of automatic transmission.
AT 250 C  ADV PERFORMANCE/DRIVEABILITY
4 Units
(Formerly AT 044 C)
Four hours lecture and
Two hours laboratory per week.
CSU
The course includes advanced principles, design and repair procedures of automotive electrical, ignition and computerized engine management systems, including emission controls. Demonstrated lectures and laboratory work using modern testing equipment, oscilloscopes, dynamometer and other diagnostic equipment are included. Practical application under simulated repair shop conditions on “live” vehicles is an integral part of the course.

AT 255 C  ASE TEST PREP – ENGINE PERF
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
CSU
This is a review course and is designed to help prepare students to take and pass the ASE (National Institute for Automotive Service Excellence) engine performance certification test. This course will review the various task lists which detail the knowledge that a technician must have to pass the ASE engine performance certification test. Demonstrated lecture will include instruction concerning theory, operation, diagnosis, and repair of automotive engine.

AT 256 C  ASE TEST PREP – ADV ENG PERF
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
CSU
This is a review course and is designed to help prepare students to take and pass the ASE (National Institute for Automotive Service Excellence) advanced engine performance certification test. This course will review the various task lists which detail the knowledge that a technician must have to pass the ASE advanced engine performance certification test. Demonstrated lecture will include instruction concerning theory, operation, diagnosis, and repair of automotive engine control systems.

AT 265 C  ASE TEST PREP – ELECTRICAL
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
CSU
This is a review course and is designed to help prepare students to take and pass the ASE (National Institute for Automotive Service Excellence) electrical certification test. This course will review the various task lists which detail the knowledge that a technician must have to pass the ASE electrical certification test. Demonstrated lecture will include instruction concerning theory, operation, diagnosis, and repair of automotive electrical systems.

AT 295 C  AUTOMOTIVE SERVICE SEMINAR
1-4 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Open Entry/Open Exit
One hour lecture and
Three hours twenty minutes to thirteen hours and twenty minutes laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
CSU
This course is designed to give the student credit for work experience at a related occupational worksite, while being concurrently enrolled in a vocational major. For each unit of credit, a minimum of 75 total hours of worksite hours for paid internships (minimum 60 hours for unpaid internships). The internship allows students to apply knowledge gained in college courses to an actual work setting, sample career choices and improve job-readiness skills. Supplemental reading and course assignments required.

AT 298 C  AUTOMOTIVE SERVICE SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a course for students who wish to increase their knowledge of Automotive Repair. Various topics will be offered. Unit credit may range from ½ to 12 units in any given semester. Consult the class schedule to verify credit for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

Motorcycle Technology (MT)

MT 100 C  INTRODUCTION TO MOTORCYCLES
3 Units
Three hours lecture and
One hour laboratory per week.
CSU
This course is an introduction to motorcycles, motorcycle design and maintenance theory. The course offers a view of the history of motorcycles as well as a discussion of modern machines. It gives the student an overview of the theory of operation and design principles involved in motorcycle maintenance.

MT 101 C  FUEL, LUBRICATION & COOLING
4 Units
Three hours lecture and
Two hours laboratory per week.
CSU
This course covers the principles, theory of operation, design, and function of motorcycle fuel, lubrication and cooling systems as well as inspection, disassembly, cleaning, measuring and rebuilding of the components of those systems. Upon completion of the course the student will be able to perform preventative maintenance, troubleshoot discrepancies, repair the system components and assist customers in selecting suitable aftermarket parts in both dealer and independent shop settings.
MT 102 C  MOTORCYCLE ELECTRICAL SYSTEMS  
4 Units  
Three hours lecture and  
Two hours laboratory per week.  
CSU  
This course covers the principles of basic electricity including terms, circuits, wiring diagrams and symbols, magnetism and methods of providing electrical energy for motorcycles. Various electrical components of generation, regulation, distribution, control, switching, and methods of testing of motorcycle electrical systems will be discussed as well. Further, ignition systems and how they relate to the engine components will be covered.

MT 110 C  MOTORCYCLE ENGINE THEORY  
4 Units  
Three hours lecture and  
Two hours laboratory per week.  
CSU  
This course offers a comprehensive view of how two-and four-stroke motorcycle engines work through detailed discussion of the theory of operation and technical principles involved in converting fuel to motion. This course is also appropriate for technical and non-technical students who are interested in understanding any modern internal combustion engine.

MT 120 C  MOTORCYCLE EXHAUST/FRAME/SUSP.  
4 Units  
Three hours lecture and  
Two hours laboratory per week.  
CSU  
This course covers the theory, design and function of motorcycle exhaust systems, various frame and suspension designs, tires, cast and spoked wheels, and both disk and drum brakes. Upon successful completion of this course, the student will be able to perform preventive maintenance, troubleshoot discrepancies, repair the systems and assist customers in selecting suitable after-market parts in both a dealer and independent shop setting.

MT 130 C  MOTORCYCLE ENGINE OVERHAUL  
4 Units  
Three hours lecture and  
Three hours laboratory per week.  
CSU  
This course offers a comprehensive view of the parameters determining the need for overhaul of modern motorcycle engines, the methods and techniques involved and the adjustments and operations check afterwards. Further, it covers the use of overhaul and parts manuals and the logic employed in them. Upon the successful completion of this class, a student will be able to perform a complete overhaul of the various types of modern motorcycle engines including water-cooled, multi-valve engines as well as air-cooled V-twins. The student will be able to advise the customer about sensible performance modifications.

MT 140 C  MOTORCYCLE TUNE-UP & SERVICE  
4 Units  
Three hours lecture and  
Two hours laboratory per week.  
CSU  
This course covers motorcycle tune-up, general service, ignition and valve adjustment, lubrication and oil and filter changes as well as the special tools required. It covers service and parts manuals, micro-fiche and computerized manuals and the logic employed in them. Upon the successful completion of this class the student will be able to perform virtually all aspects of scheduled maintenance including tune-ups, valve adjustment, oil changes and lubrication service as well as troubleshoot and repair common maintenance discrepancies.

MT 150 C  MOTORCYCLE DYNO OPERATION  
1½ Units  
One hour lecture and  
One and one-half hours laboratory per week.  
CSU  
This course is an in-depth course covering motorcycle engine and component theory and function as related to dynamometer operation. It covers use of a dyno for data acquisition for successful maintenance discrepancy, diagnosis, and correction. Various motorcycles will be run on the dyno so students can use the data to troubleshoot maintenance problems.

MT 160 C  POWER TRANSMISSION SYSTEMS  
4 Units  
Three hours lecture and  
Two hours laboratory per week.  
CSU  
This course covers motorcycle power transmission systems from the engine crankshaft through the clutch, transmission, and final drive system to the rear wheel. The theory of operation including lubrication requirements, gear ratios, design and function of the primary drive, the clutch, the transmission and final drive will be covered. Clutches, transmissions and drive systems will be removed, disassembled, cleaned, inspected, measured, rebuilt, reinstalled and checked for proper operation.
## Aviation

### Division of Career Technical Education and Economic Development

**Division Dean – Steve Donley**

**Counselor**

Jane Jepson

### PROGRAM LEARNING OUTCOMES (PLOs)

**Aviation**

Students who receive a certificate from the Cypress College Aviation Program

- Will have acquired the specified set of skills required for aviation employment opportunities
- Will have achieved the necessary competencies to enter the aviation field
- Will be aware of additional educational and career opportunities within aviation

### ASSOCIATE IN SCIENCE DEGREE

#### AVIATION MANAGEMENT

**Program Code: 1S03772**

This curriculum is designed to assist the management student preparing to enter the aviation industry. By selecting proper electives, the student may develop needed skills and understanding in the fields of flight services, airport management, cargo and freight handling or travel services.

To earn an Associate Degree students must complete all graduation requirements to include: (1) all major course requirements with a minimum grade of “C” or better; (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.

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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA 100 C</td>
<td>Introduction to Aviation</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 132 C</td>
<td></td>
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<tr>
<td>or</td>
<td>ATC 270 C</td>
<td>3</td>
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<tr>
<td>or</td>
<td>AVIA 104 C</td>
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<td>or</td>
<td>ACCT 101 C</td>
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<td>or</td>
<td>CIS 111 C</td>
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<td>or</td>
<td>MGT 061 C</td>
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<td>or</td>
<td>MGT 161 C</td>
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<td>or</td>
<td>MGT 041 C</td>
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<td>or</td>
<td>MGT 241 C</td>
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<td>or</td>
<td>MGT 261 C</td>
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<td>or</td>
<td>MGT 262 C</td>
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<tr>
<td>or</td>
<td>ECON 110 C</td>
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<td>or</td>
<td>ECON 100 C</td>
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</tbody>
</table>

### Electives

#### AVIATION/TRAVEL CAREERS

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA 112 C</td>
<td>Airline/Aviation Management</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 116 C</td>
<td>Aviation Law</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 132 C</td>
<td>Private Pilot</td>
<td>4</td>
</tr>
<tr>
<td>AVIA 136 C</td>
<td>Air Navigation</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 148 C</td>
<td>Air Traffic Control</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 140 C</td>
<td>Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 232 C</td>
<td>Instrument Rating</td>
<td>3</td>
</tr>
<tr>
<td>ATC 278 C</td>
<td>Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>ATC 191 C</td>
<td>Airline Reservations: APOLO</td>
<td>3</td>
</tr>
<tr>
<td>ATC 192 C</td>
<td>Airline Reservations: SABRE</td>
<td>3</td>
</tr>
</tbody>
</table>

### BUSINESS

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 102 C</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ECON 105 C</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
<tr>
<td>MKT 103 C</td>
<td>Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>MGT 261 C</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
</tbody>
</table>

The following course or equivalent is recommended to support this degree program:

**PHYS 130 C** Principles of Physics

Typing proficiency of 30 net words per minute is recommended.

### ASSOCIATE IN SCIENCE DEGREE

#### COMMERCIAL PILOT

**Program Code: 1S03773**

This curriculum is designed to prepare the student to fly commercial, executive, and/or light aircraft as a pilot or instructor.

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.

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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA 102 C</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 104 C</td>
<td>Air Transportation</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ATC 270 C</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 132 C</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>ACCT 101 C</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>MGT 061 C</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>MGT 161 C</td>
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<tr>
<td>or</td>
<td>MGT 041 C</td>
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<tr>
<td>or</td>
<td>MGT 241 C</td>
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<tr>
<td>or</td>
<td>MGT 261 C</td>
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<tr>
<td>or</td>
<td>MGT 262 C</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>ECON 110 C</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>ECON 100 C</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units Required** 36
### Aviation Certificate I - Private Pilot

**Program Code: 1C22916**

This certificate provides students who have begun flying with the basic background and knowledge to gain entry-level employment in the Aviation Industry in areas such as line service and fueling. To earn a certificate, complete the required courses 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA 102</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 104</td>
<td>Air Transportation</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ATC 270</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>AVIA 132</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 136</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 140</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required**

16

### Aviation Certificate II - Instrument Pilot

**Program Code: 1C22917**

This certificate provides students with the necessary background to gain employment in the Aviation Industry requiring knowledge of weather, navigation and instrument flight such as flight scheduling and general aviation dispatching. To earn a certificate, complete the required courses 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA 102</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 104</td>
<td>Air Transportation</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ATC 270</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>AVIA 132</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 136</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 140</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 144</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 196</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required**

23

### Aviation Certificate III - Commercial Pilot

**Program Code: 1C22918**

This certificate prepares students for entry into the commercial pilot profession. To earn a certificate, complete the required courses 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA 102</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 104</td>
<td>Air Transportation</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ATC 270</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>AVIA 132</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 136</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 140</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 144</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required**

32

### Aviation Certificate IV - Advanced Pilot

**Program Code: 1C22919**

This certificate prepares students for entry into the aviation/air transportation industry as a professional pilot. To qualify for this certificate, students must have completed all of the required courses listed below and four (4) units from the list of electives. To earn a certificate, complete the required courses 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA 102</td>
<td>Career Communication/Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 104</td>
<td>Air Transportation</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ATC 270</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>AVIA 132</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 136</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 140</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AVIA 144</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required**

36

### Electives (to complete all major course requirements, students must complete 4 elective units from the list below for a total of 36 units.)

- AVIA 050 C Special Projects-Aviation
- AVIA 112 C Airline/Airway Management
- AVIA 148 C Air Traffic Control
- AVIA 152 C Glider Theory
- AVIA 189 C Flight Training Device - Intro
- AVIA 190 C Flight Training-Private Pilot
- AVIA 191 C Flight Trng Instrument Rating
- AVIA 192 C Flight Trng Commercial Pilot
- AVIA 193 C Flight Trng-Fight Instructor
- AVIA 197 C Gnd Trnr. Lab - Glass Cockpit
- AVIA 250 C Turbine Simulator Observation
- AVIA 255 C Turbine Simulator Orientation
- AVIA 295 C Aviation Internship
- AVIA 298 C Aviation Seminar
- AVIA 299 C Independent Study
- AVIA 224 C Aircraft Structures
- AVIA 228 C Aircraft Power Plants
- AVIA 232 C Instrument Rating
- AVIA 240 C Commercial Pilot Seminar
- AVIA 244 C Aviation Instructor
- AVIA 256 C Crew Resource Management

*Note: Courses marked with an asterisk (*) may be substituted for other courses as listed with a minimum grade of "C." At least 50% of all course work must be completed at Cypress College.*
Electives: To complete all major course requirements, students must complete 4 elective units from the list below for a total of 36 units.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA 050 C</td>
<td>Special Projects-Aviation</td>
<td>2</td>
</tr>
<tr>
<td>AVIA 112 C</td>
<td>Airline/Aviation Management</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 148 C</td>
<td>Air Traffic Control</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 152 C</td>
<td>Glider Theory</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 189 C</td>
<td>Flight Training Device - Intro</td>
<td>½</td>
</tr>
<tr>
<td>AVIA 190 C</td>
<td>Flight Training-Private Pilot</td>
<td>2</td>
</tr>
<tr>
<td>AVIA 191 C</td>
<td>Flight Trng Instrument Rating</td>
<td>2</td>
</tr>
<tr>
<td>AVIA 192 C</td>
<td>Flight Trng Commercial Pilot</td>
<td>2</td>
</tr>
<tr>
<td>AVIA 193 C</td>
<td>Flight Trng-Flight Instructor</td>
<td>1 - 3</td>
</tr>
<tr>
<td>AVIA 197 C</td>
<td>Gnd Trnr. Lab - Glass Cockpit</td>
<td>½</td>
</tr>
<tr>
<td>AVIA 250 C</td>
<td>Turbine Simulator Observation</td>
<td>½</td>
</tr>
<tr>
<td>AVIA 255 C</td>
<td>Turbine Simulator Orientation</td>
<td>½</td>
</tr>
<tr>
<td>AVIA 295 C</td>
<td>Aviation Internship</td>
<td>3</td>
</tr>
<tr>
<td>AVIA 298 C</td>
<td>Aviation Seminar</td>
<td>½ - 12</td>
</tr>
<tr>
<td>AVIA 299 C</td>
<td>Independent Study</td>
<td>½ - 2</td>
</tr>
</tbody>
</table>

**ARTICULATION AGREEMENTS ARE IN EXISTENCE FOR TRANSFER PROGRAMS TO THE FOLLOWING UNIVERSITIES:**

- Arizona State University
- California State University, Los Angeles
- San Jose State University
- Southern Illinois University

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

## Aviation (AVIA)

Through arrangements with the University of Southern California (USC) and Loyola Marymount University (LMU), two-, three-, and four-year Air Force Reserve Officers Training Corps (AFROTC) programs are available to all qualified students at Cypress College. For additional information, contact USC or LMU.

Through arrangement with California State University Long Beach, both two-year and four-year Air Force Reserve Officer Training Corps (AFROTC) programs are available to all qualified, full-time students. Academic units earned in this program are counted as elective units toward fulfillment of graduation requirements. Successful completion of the AFROTC programs leads to a commission as an officer in the United States Air Force. Those students who qualify and desire to enter Air Force pilot training will be given flight instruction in either the two- or four-year program. Competitive scholarships are available to qualified students. All scholarship students receive tuition, laboratory and book fees, and $100 a month. Students on scholarship must successfully complete courses in English composition, mathematical reasoning, and foreign language. For additional information, contact the Department of Aerospace Studies (AFROTC) at California State University Long Beach, CA 90840-5530, (562) 985-5743.

## CERTIFICATED PILOTS - CREDIT BY EXAMINATION

The Professional Pilot program at Cypress College is intended to prepare a student for employment in the aviation industry. Although the college offers only ground instruction and ground trainer instruction, it is recognized that flight training and pilot certificates are also required for employment.

In order to complete qualifications for employment, the student arranges for, and secures, the flight training necessary for the needed pilot certificates and ratings. Cypress College and the North Orange County Community College District assume no responsibility or liability for the flight training so obtained.

Unit credit (no grade) may be awarded through the Credit by Examination process (see index). Pilot certificates and ratings issued to the student by the Federal Aviation Administration will be used as evidence and certification of competency. A maximum of 12 units will be granted via Credit by Examination.

### AVIA 050 C SPECIAL PROJECTS - AVIATION

2 Units *(May be taken for credit 4 times)*

One hour lecture and

Three hours laboratory TBA per week.

This course includes individually directed research by independent study, dealing with present and future problems of the aviation/travel industry. The student will apply previously learned principles and procedures to practical problems to develop increased understanding and to demonstrate knowledge of the subject.

### AVIA 055 C WORK EXPERIENCE - VOCATIONAL

1 - 4 Units *(Variable Unit Class) (May be taken for credit 4 times)*

One hour lecture per week.

Prerequisite: Must be enrolled in seven units, including work experience. Concurrent enrollment in Aviation Program. The course requires a minimum of five hours per week employment in an aviation-related occupation.

### AVIA 100 C INTRODUCTION TO AVIATION

3 Units

Three hours lecture per week.

CSU

This course is a general introductory course covering the development of aviation and its importance in the economy. Special emphasis is placed on the history of aviation, the airlines and general aviation.

### AVIA 102 C CAREER COMMUNICATION/PORTFOLIO

3 Units

*(Same as ATC 102 C)*

Three hours lecture per week.

Credit by Examination.

**CSU**

Students will learn how professional presentation skills can make the difference in achieving their personal career success. This course reviews both oral and written communication skills including the development of a comprehensive resume, cover letter, business writing samples, interviewing skills, technology basics, business etiquette, and a career portfolio. Video will be used to help students achieve maximum effectiveness in mock-interviews. Students will also learn test-taking strategies necessary for career success.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA 103 C</td>
<td>AVIATION OPEN LAB</td>
<td>1/2</td>
<td>(Variable Unit Course) (May be taken for credit 4 times) One and one-half to nine hours laboratory per week. Pass/No Pass. CSU Corequisite: Concurrent enrollment in at least one other Aviation course required. This open-entry, open-exit course with flexible hours and variable units allows self-paced individualized instruction and/or practice in basic flight skills for aviation students. This course provides students with the equipment needed to complete aviation assignments; therefore, concurrent enrollment in any aviation class is required. Twenty-seven (27) hours are required for each one-half unit. $5.00 Material Fee – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>AVIA 104 C</td>
<td>AIR TRANSPORTATION</td>
<td>3</td>
<td>Three hours lecture per week. CSU Prerequisite: Completion of or concurrent enrollment in AVIA 100 C or AVIA 132 C. This course presents the development and current status of the air transportation industry, including aircraft types, airport facilities, State and Federal regulations, security issues, economic challenges, career opportunities, and services of United States air carriers and the organization and function of the FAA, NTSB, IATA and ICAO.</td>
</tr>
<tr>
<td>AVIA 112 C</td>
<td>AIRLINE/AVIATION MANAGEMENT</td>
<td>3</td>
<td>Three hours lecture per week. CSU Prerequisite: AVIA 104 C or AVIA 132 C. This course covers the application of management principles to aviation enterprises. These enterprises include airlines, general aviation and travel agencies. Major areas of study include planning, organization, regulations, manpower management, facilities, marketing, administration and decision making process.</td>
</tr>
<tr>
<td>AVIA 116 C</td>
<td>AVIATION LAW</td>
<td>3</td>
<td>Three hours lecture per week. CSU Prerequisite: AVIA 100 C or AVIA 132 C. This course is a study of weather recognition, icing, fog, fronts, clouds, weather maps and symbols, forecasting pressure patterns, wind systems, temperature-humidity-dew point relationships, precipitation, with emphasis on the practical application of this knowledge to safe flying practices. The services and assistance available from the US Weather Bureau will be highlighted. The course meets the meteorology requirements of the FAA for ground training.</td>
</tr>
<tr>
<td>AVIA 132 C</td>
<td>PRIVATE PILOT</td>
<td>4</td>
<td>Three hours lecture and Three hours laboratory per week. CSU This course is an introduction to basic principles of aviation, meteorology, navigation, radio communication and Federal Aviation Regulations to qualify the student for the FAA Knowledge examination for the Private Pilot Certificate and meets the FAA requirement for ground instruction.</td>
</tr>
<tr>
<td>AVIA 136 C</td>
<td>AIR NAVIGATION</td>
<td>3</td>
<td>Three hours lecture per week. CSU Prerequisite: Completion of or concurrent enrollment in AVIA 132 C. This course is a study of pilotage, dead reckoning, and radio navigation techniques; solution and application of navigation problems. This course meets partial fulfillment of the requirements of the FAA for ground training.</td>
</tr>
<tr>
<td>AVIA 140 C</td>
<td>METEOROLOGY</td>
<td>3</td>
<td>Three hours lecture per week. CSU Prerequisite: Completion of or concurrent enrollment in AVIA 132 C. This is a course of study of weather recognition, icing, fog, fronts, clouds, weather maps and symbols, forecasting pressure patterns, wind systems, temperature-humidity-dew point relationships, precipitation, with emphasis on the practical application of this knowledge to safe flying practices. The services and assistance available from the US Weather Bureau will be highlighted. The course meets the meteorology requirements of the FAA for ground training.</td>
</tr>
<tr>
<td>AVIA 144 C</td>
<td>AIRCRAFT &amp; ENGINES</td>
<td>3</td>
<td>Three hours lecture per week. CSU Prerequisite: Completion of or concurrent enrollment in AVIA 132 C. This course is a study of the theory of flight, aircraft design, construction, operation limitations, repair and maintenance, maintenance records and aircraft accessories. Engine study includes principles of internal combustion engines, engine design and construction, fuel, lubrication and cooling systems, propellers, trouble shooting and preventive maintenance. This course meets partial fulfillment of the requirements of the FAA for ground training.</td>
</tr>
<tr>
<td>AVIA 148 C</td>
<td>AIR TRAFFIC CONTROL</td>
<td>3</td>
<td>Three hours lecture per week. CSU Prerequisite: AVIA 132 C. This course is a study of rules and procedures involving the movement and control of airborne and ground traffic during VFR and IFR conditions, including tower control, manual and radar approach, departure control, and enroute control. Presentation of this material is designed to also aid pilots in understanding and benefiting from the Air Traffic Control System.</td>
</tr>
<tr>
<td>AVIA 152 C</td>
<td>GLIDER PILOT</td>
<td>3</td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option. CSU This is an introductory course in glider flying including the theory of flight, weather, Federal Aviation Regulations, as well as principles and techniques of cross-country and competition flying. It prepares students for the FAA Private Pilot-Glider knowledge examination.</td>
</tr>
<tr>
<td>AVIA 189 C</td>
<td>FLIGHT TRAINING DEVICE - INTRO</td>
<td>1/2</td>
<td>(May be taken for credit 4 times) One and one-half hour laboratory per week. Pass/No Pass/Letter Grade Option. CSU Students will receive a hands-on introduction to a PC-based Flight Training Device and become familiar with the fundamentals of flight, flight terminology, flight controls, and instrument interpretations.</td>
</tr>
</tbody>
</table>
AVIA 190 C  FLIGHT TRAINING - PRIVATE PILOT
2 Units (formerly AVIA 090 C)
Hours as required by FAA.
Pass/No Pass, Letter Grade Option, or Credit by Examination
CSU

Prerequisite: FAA Private Pilot Certificate and completion of at least three units of AVIA 132 C or above with a grade of “C” or better. Students who have earned the FAA Private Pilot Certificate may be granted college credit by meeting the above prerequisites and the Credit by Examination requirements as published in this catalog.

AVIA 191 C  FLIGHT TRAINING - INSTRUMENT RATING
2 Units (formerly AVIA 091 C)
Hours as required by FAA.
Pass/No Pass, Letter Grade Option, or Credit by Examination
CSU

Prerequisite: FAA Pilot Certificate with Instrument Rating and completion of at least three units of AVIA 132 C or above with a grade of “C” or better. Students who have earned an FAA Instrument Rating on their Pilot Certificate may be granted college credit by meeting the above prerequisites and the Credit by Examination requirements as published in this catalog.

AVIA 192 C  FLIGHT TRAINING - COMMERCIAL PILOT
2 Units (formerly AVIA 092 C)
Hours as required by FAA.
Pass/No Pass, Letter Grade Option, or Credit by Examination
CSU

Prerequisite: FAA Commercial Pilot Certificate and completion of at least three units of AVIA 132 C or above with a grade of “C” or better. Students who have earned the FAA Commercial Pilot Certificate may be granted college credit by meeting the above prerequisites and meeting the current Credit by Examination requirements as published in this catalog.

AVIA 193 C  FLIGHT TRAINING - FLIGHT INSTRUCTOR
1 - 5 Units (formerly AVIA 093 C) (Variable Unit Class)
(May be taken for credit 4 times)
Hours as required by FAA
Pass/No Pass, Letter Grade Option, or Credit by Examination
CSU

Prerequisite: FAA Pilot Certificate with Instrument Rating and completion of at least three units of AVIA 132 C or above with a grade of “C” or better. Students who have earned the FAA Flight Instructor Certificate may be granted college credit as follows: One unit of credit may be granted for each of the following Flight Instructor Certificates or Ratings: Airplane Single Engine, Airplane Multi-engine, Rotocraft, Glider and Instrument. Credit may be granted by meeting the above prerequisites and the Credit by Examination procedures as published in this catalog. May be taken for credit 4 times for a maximum of 5 units.

AVIA 196 C  GROUND TRAINER LAB - INSTRUMENT FLIGHT
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU

Prerequisite: Completion of, or concurrent enrollment in, AVIA 232 C or AVIA 240 C. This course offers the student the opportunity to develop and maintain necessary instrument flight skills. Laboratory time will be divided between instrument ground trainer and audio visual aids. Flight time in the approved ground trainers may be applied toward requirements for both attaining and maintaining flight ratings. (Course may be repeated for credit.)

AVIA 197 C  GROUND TRAINER LAB – GLASS COCKPIT
1 Unit (May be taken for credit 4 times)
Three hours laboratory per week.
Pass/No Pass/Letter Grade Option
CSU

Prerequisite: Completion of or concurrent enrollment in AVIA 132 C with a minimum grade of “C”. This course provides an introduction to the Technically Advanced Aircraft (TAA) Glass Cockpit. The Flight Training Device (FTD) will enable students to become familiar with the operation and displays of the GPS navigator, Primary Flight Display (PFD) and the Multifunction Display (MFD) featured in most current production aircraft.

AVIA 220 C  ADVANCED AIR NAVIGATION
2 Units
Two hours lecture per week.
CSU

Prerequisite: Completion of, or concurrent enrollment in, AVIA 136 C. This is a course stressing advanced navigation methods and principles including radio and electronic navigation aids, celestial navigation, computerized flight planning and cruise control.

AVIA 232 C  INSTRUMENT RATING
3 Units (May be taken for credit 2 times)
Three hours lecture per week.
Credit by Examination (for first credit only)
CSU

Prerequisite: AVIA 136 C, AVIA 140 C or 120 hours of flight time. This course is designed to prepare or requalify the student in instrument flight procedures and techniques, including air traffic control, publications and regulations. This course reviews aeronautical ground training required to pass the FAA Instrument Pilot, Instrument Flight Instructor and Instrument Ground Instructor Knowledge Examinations. Flight time in a Flight Training Device is available by concurrent enrollment in AVIA 196. Credit by Examination procedures as published in this catalog.

AVIA 236 C  AERODYNAMICS
3 Units
Three hours lecture per week.
CSU

Prerequisite: Sophomore standing in Aviation Program, eligibility for MATH 040 C and PHYS 130 C. Students will learn the basic principles of aerodynamics, including airfoil shapes and characteristics, viscous effects, propellers, and aircraft performance viewed in terms of the basic laws of physics, aircraft limitations and Federal Aviation Regulations. Emphasis will be on physical aspects of flight time.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units (May be taken for credit)</th>
<th>Type</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIA 240 C</td>
<td>COMMERCIAL PILOT SEMINAR</td>
<td>3</td>
<td>(May be taken for credit 3 times)</td>
<td></td>
<td>Three hours lecture per week. CSU Prerequisite: AVIA 136 C, AVIA 140 C, or Pilot Certificate. This course is a review of current Federal Aviation Regulations and Government Publications for the active pilot; aircraft loading and weight and balance; review of the aeronautical knowledge required to pass the FAA Commercial Pilot knowledge examination. This course meets partial fulfillment of the FAA requirements for ground training. AVIA 240 C may count toward the Aviation Major requirements the first time only. (Flight Training Device flight time is available by concurrent enrollment in AVIA 196 C). May be taken for credit 4 times.</td>
</tr>
<tr>
<td>AVIA 244 C</td>
<td>AVIATION INSTRUCTOR</td>
<td>3</td>
<td></td>
<td></td>
<td>Two and one-half hours lecture and One and one-half hours laboratory per week. CSU Prerequisite: AVIA 240 C and 120 hours of flight time. This course is a study of principles of learning and teaching, elements of practical educational psychology, and a review of current trends and techniques in aviation instruction. Class participation in lesson preparation is included. This course meets partial fulfillment of the requirements of the FAA for ground instruction.</td>
</tr>
<tr>
<td>AVIA 250 C</td>
<td>TURBINE SIMULATOR OBSERVATION</td>
<td>½</td>
<td>(May be taken for credit 4 times)</td>
<td></td>
<td>One-half hour lecture per week. CSU Students will be introduced to a full-motion turbine aircraft flight deck, including familiarization with the fundamentals of flight, flight deck controls, instrument interpretation, and aircraft systems. A required 3-hour preparatory class will be held on campus, and the remaining 6 hours will be delivered at FlightSafety International. Students will need to supply a picture ID and an approved background check before entrance to FlightSafety International. Fee may be required, subject to change by facility.</td>
</tr>
<tr>
<td>AVIA 255 C</td>
<td>TURBINE SIMULATOR ORIENTATION</td>
<td>½</td>
<td>(May be taken for credit 4 times)</td>
<td></td>
<td>One-half hour lecture per week. CSU Advisory: Completion of, or concurrent enrollment in, AVIA 250 C Jet Simulator Observation. Students will practice the fundamentals of flight, utilizing the flight deck's controls, instruments, and basic systems in a full-motion turbine flight simulator. A required 3-hour preparatory class will be held on campus, and the remaining 6 hours will be delivered at FlightSafety International. Students will need to supply a picture ID and an approved background check before entrance to FlightSafety International. Fee may be required, subject to change by facility.</td>
</tr>
<tr>
<td>AVIA 256 C</td>
<td>CREW RESOURCE MANAGEMENT</td>
<td>3</td>
<td></td>
<td></td>
<td>Three hours lecture per week. CSU This course will examine the concepts of Crew Resource Management (CRM) and Human Factors and Aeronautical Decision Making currently practiced in commercial and corporate aviation. The role of crew supervision and training, leadership styles and management oversight will be studied. Single and multi-crew aircraft situations will be studied. Human factors research and aircraft accident investigations will be examined. Duplicate credit not granted for ATC 256 C.</td>
</tr>
<tr>
<td>AVIA 245 C</td>
<td>AVIATION SEMINAR</td>
<td>½-12</td>
<td>(Variable Unit Class) (May be taken for credit 1-4 times)</td>
<td></td>
<td>Zero to twelve hours lecture and Zero to thirty-six hours laboratory per week. Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade CSU Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a course for students who wish to increase their knowledge of Aviation. Various topics will be offered. Unit credit may range from ½ to 12 in any given semester. Consult the class schedule to verify credit for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>AVIA 249 C</td>
<td>INDEPENDENT STUDY</td>
<td>½-2</td>
<td>(Variable Unit Class) (May be taken for credit 4 times)</td>
<td></td>
<td>Zero to two hours lecture and Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade CSU Prerequisite: Approved Independent Study Learning Contract. This course is designed for those students who wish to increase their knowledge of the aviation industry through professionally directed independent study or research.</td>
</tr>
</tbody>
</table>
Biology

Division of Science/Engineering/Mathematics

Division Dean – Richard Fee

Faculty
Sujata Chiplunkar
David Gill
Joel Gober
Alex Mintzer
Fumio Ogoshi
Michelle Palmisano
Adel Rajab
Tony Sanchez
Dee Ann Sato
Stephanie Spooner

Counselors
Deidre Porter

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

BIOLOGICAL SCIENCES TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Biology (BIOL)

BIOL 101 C  GENERAL BIOLOGY
5 Units
Four hours lecture and
Three hours laboratory per week.
Pass/No Pass/Letter Grade Option
No Credit if taken after BIOL 111 C, BIOL 113 C or BIOL 177 C.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: High school chemistry or CHEM 101 C or CHEM 107 C are recommended. The course is a survey of modern biological concepts from the areas of molecular, cellular, organismic, and population biology, stressing evolution as the central theme of modern biology. The study of the flow of energy through biological systems is emphasized. This is a general education course in the biological science area. This course will satisfy the Biological Sciences portion of the state college and university general education requirement. Duplicate credit not granted for BIOL 101HC.

BIOL 102 C  HUMAN BIOLOGY
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC
The course is a study of modern biological concepts presented in a human context. The concepts will include human evolution, anatomy, physiology, genetics, population biology, and ecological principles. Included in the course will be discussion on current topics on environmental and public health issues as they relate to the human condition. (Not open to students with credit in BIOL 101 C or BIOL 101 HC.)

BIOL 103 C  ENVIRONMENTAL SCIENCE
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC
The course is a study of the ecological principles which form the basis for understanding human existence in relation to environment quality. The topics include human, biological, and cultural evolution; ecological principles; human population issues; and problems relating to the development and use of energy and other resources. In addition, the causes and consequences of pollution will be addressed. The development of an earth ethic toward the world will be stressed.

BIOL 107 C  NUTRITION & WORLD FOOD ISSUES
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE
This course is a study of the biological basis of human nutrition, including a survey of anatomical and physiological principles. A study of the human diet in the context of disease prevention, world food supply, and ecological factors will also be included.

BIOL 111 C  PRINCIPLES OF BIOLOGY 1
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: Completion of or concurrent enrollment in CHEM 111AC.
Advisory: ENGL 060C. This is the first course in a two-semester lecture sequence for science majors. This course presents the biochemistry and molecular biology of cells. In addition, cell principle, cell structure and function, cell growth and reproduction, the development of animals, and Mendelian and molecular genetics will be presented. This course will meet the preparation needs of students transferring to upper division biology study.
BIOL 112 C  PRINCIPLES OF BIOLOGY 1 LAB
2 Units
Six hours laboratory per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: Completion of or concurrent enrollment in BIOL 111 C. This is a laboratory course that complements BIOL 111 C. The course explores modern experimental molecular, biochemical, and cellular biology techniques. This course may be taken concurrently with or subsequently to BIOL 111 C. Both BIOL 111 C and BIOL 112 C are required for the biology major. Eligibility for English 100 C is recommended.

BIOL 113 C  PRINCIPLES OF BIOLOGY 2
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: Completion of BIOL 111 C or equivalent course with a “C” or better. This is the second course in a two-semester lecture sequence for biology majors. This course is designed to familiarize students with the diversity, evolution, physiology, and ecology of living organisms. Population genetics will also be presented. This class is designed for science majors in transfer programs to upper-division study of biology.

** Each UC and CSU university has specific transfer requirements. Please consult with your counselor and www.assist.org for campus-specific requirements.
Contact: Dr. Adel Rajab at arajab@CypressCollege.edu or (714) 484-7000 x48629
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Time Required</th>
<th>Grade Options</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 114 C</td>
<td>PRINCIPLES OF BIOLOGY 2 LAB</td>
<td>2</td>
<td>Six hours laboratory per week</td>
<td>UC Credit Limitation/CSU, AA GE, CSU GE, IGETC</td>
<td>BIOL 113 C or equivalent course with a &quot;C&quot; or better, Advisory: MATH 040 C or Algebra II</td>
<td>This is a biology laboratory course that complements BIOL 113 C in a two-semester sequence for science majors. This course is designed to familiarize students with the diversity, evolution, physiology, and ecology of living organisms. Population genetics will also be presented. Concurrent enrollment in BIOL 113 C recommended.</td>
</tr>
<tr>
<td>BIOL 122 C</td>
<td>MARINE BIOLOGY</td>
<td>5</td>
<td>Four hours lecture and Three hours laboratory per week</td>
<td>Pass/No Pass/Letter Grade Option</td>
<td>UC/CSU, AA GE, CSU GE, IGETC</td>
<td>This is a survey of the natural history and biology of marine organisms, and includes an introduction to physical and chemical oceanography, marine ecology, and energy flow within the marine environment, as well as some basic biological concepts using live ecosystems as examples. Pollution and conservation of the marine environment will also be considered. The course satisfies the biological science with a laboratory transfer requirement of universities and state colleges. A single optional boat field trip may be scheduled with a charter cost not to exceed $30.00.</td>
</tr>
<tr>
<td>BIOL 125 C</td>
<td>ISLAND BIOLOGY</td>
<td>2</td>
<td>Twenty-four hours lecture and Thirty-six hours laboratory, including field study</td>
<td>Pass/No Pass/Letter Grade Option</td>
<td>UC/CSU, AA GE, CSU GE, IGETC</td>
<td>Advisory: BIOL 122 C. This course is designed as an introduction to the nature and diversity of island life. It offers the student an opportunity to study marine communities with an emphasis on community interactions. The course will also include a consideration of marine wilderness and conservation problems as well as biological processes as they occur on islands. One or more weekend field trips for snorkeling, free diving and field study will be an integral part of the course. A boat charter fee not to exceed $50 may be required for field trips to the islands.</td>
</tr>
<tr>
<td>BIOL 160 C</td>
<td>INTEGRATED MEDICAL SCIENCE</td>
<td>3</td>
<td>Three hours lecture per week</td>
<td>Pass/No Pass/Letter Grade Option</td>
<td>UC/CSU, AA GE</td>
<td>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, mortuary science, court reporting, etc.) or others who desire a background in human biology.</td>
</tr>
<tr>
<td>BIOL 161 C</td>
<td>INTEGRATED MEDICAL SCIENCE LAB</td>
<td>1</td>
<td>Three hours laboratory per week</td>
<td>Pass/No Pass/Letter Grade Option</td>
<td>UC/CSU, AA GE</td>
<td>Prerequisite: Completion of or concurrent enrollment in BIOL 160 C. The course is a one-semester laboratory that offers the student exposure to the basic principles discussed in BIOL 160 C. The course is designed primarily for allied health vocational programs that require a laboratory course, but is open to other interested students.</td>
</tr>
</tbody>
</table>
BIOL 220 C  MEDICAL MICROBIOLOGY  
4 Units  
Three hours lecture and Three hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU  
Advisory: BIOL 160 C or one year each of high school chemistry/biology completed in the last five years with a minimum grade of “C” or one semester each college chemistry/biology completed in the last five years with a minimum grade of “C”. This course is a study of the etiology, transmission, diagnosis, pathology, 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.

BIOL 230 C  GENERAL ANATOMY  
4 Units  
Two hours lecture and Six hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE, IGETC  
Advisory: High School Biology and Chemistry with a minimum grade of “C”, or BIOL 160 C or BIOL 101 C. This course presents a logical analysis of body tissues, organs, and systems. It stresses the microscopic, developmental, and gross anatomy of mammals, with special emphasis on human anatomy. Special attention is given to pathological as well as normal conditions. The laboratory work includes study of fresh and preserved specimens and models. It is designed primarily for physical education and allied health majors. High school biology and chemistry, or equivalent is recommended background. Students are encouraged to take BIOL 101 C and BIOL 160 C if they have no previous science background.

BIOL 231 C  GENERAL HUMAN ANATOMY  
4 Units  
Three hours lecture and Three hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, CSU GE, AA GE, IGETC  
Advisory: High School Biology and Chemistry. This course presents a logical analysis of body tissues, organs, and systems. It stresses the microscopic, developmental, and gross anatomy of mammals, with special emphasis on human anatomy. Special attention is given to pathological as well as normal conditions. The three hour laboratory includes study of fresh and preserved specimens and models. This course is designed primarily for physical education and allied health majors. High school biology and chemistry, or equivalent is recommended background. Students are encouraged to take BIOL 101 C and BIOL 160 C if they have no previous science background.

BIOL 241 C  GENERAL HUMAN PHYSIOLOGY  
4 Units  
Three hours lecture and Three hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, CSU GE, AA GE, IGETC  
Prerequisite: BIOL 230 C or BIOL 231 C or BIOL 210 C. Advisory: CHEM 101 C. This course is an in-depth study of human function. Special attention is given to the abnormal as well as the normal functional state. The laboratory experience includes selected exercises that emphasize the interrelationships between structure and function. It is designed primarily for physical education and allied health programs that require 3 hours of laboratory per week.

BIOL 278 C  MOLECULAR BIOLOGY  
4 Units  
Four hours lecture per week.  
UC/CSU  
Prerequisite: BIOL 177 C and CHEM 211AC. This course presents mechanisms of gene expression and its regulation at the transcriptional and translational levels in eukaryotic and prokaryotic systems. The structure and biosynthesis of proteins and nucleic acids, as well as the importance of viral life cycles in understanding basic cellular processes, will be included. The major biochemical pathways in cells, with an emphasis on the thermodynamic constraints on living systems, will also be studied.

BIOL 298 C  BIOLOGY SEMINAR  
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)  
Zero to twelve hours lecture and Zero to thirty-six hours laboratory per week.  
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade  
UC Credit Limitation/CSU  
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is designed to intensify knowledge in a variety of biological topics. They may include lectures, discussions, field excursions, and other activities at the discretion of the instructor. Actual seminar topics will be listed in the class schedule for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

BIOL 299 C  INDEPENDENT STUDY FOR BIOLOGY  
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)  
Zero to two hours lecture and Zero to six hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC Credit Limitation/CSU  
Prerequisite: Approved Independent Study Learning Contract. This is for biology majors who have demonstrated interest in and capability for increased knowledge of biological and medical sciences through individual study, small group discussion/conference, special laboratory projects, or field research projects.
Business Administration

ASSOCIATE IN ARTS DEGREE BUSINESS ADMINISTRATION  Program Code: 1A16599

This curriculum is designed to provide an opportunity for the business major to achieve an Associate in Arts Degree Business Administration while completing the first and second year requirements for transfer to a four-year institution. While a baccalaureate degree is recommended preparation for those considering professional careers in business administration, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work.

Students should consult a counselor and the catalog of the individual college or university to plan a program of study. The internet site www.assist.org will also provide information for California public universities. Courses selected to fulfill the requirements of the associate degree should reflect requirements of the college to which the student plans to transfer.

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 percent 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 are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 161</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>*ECON 100 C</td>
<td>Principles of Economics-Macro</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>*ECON 100HC</td>
<td>Honors Principles of Economics</td>
</tr>
<tr>
<td>**ECON 105 C</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>**ECON 105HC</td>
<td>Honors Principles of Economics</td>
</tr>
<tr>
<td>MGT 240</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MGT 241 C</td>
<td>Legal Aspects-Business Trans.</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 102</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>MATH 130</td>
<td>Survey of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MKT 222</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Elective

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 211</td>
<td>Writing for Business</td>
<td>3</td>
</tr>
</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Economics (macro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Economics (micro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

BUSINESS ADMINISTRATION TRANSFER PROGRAM


Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

General Business

ASSOCIATE IN ARTS DEGREE GENERAL BUSINESS  Program Code: 1A18525

This curriculum is designed to provide an opportunity for the business major to achieve an Associate In Arts Degree In General Business while completing the first and second year requirements for transfer to a four-year Institution. While a baccalaureate degree is recommended preparation for those considering professional careers In business, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work and prepare for successful careers In the business field. Specifically, student will gain knowledge In accounting, Information technologies, finance, law, management, and marketing. Because business Is such a broad field with many emphases and majors, this degree would give the student a broad view of the possible fields of study In various business areas.

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 percent 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 are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*##ECON 100 C</td>
<td>Principles of Economics-Macro</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ECON 100HC Principles of Economics</td>
<td>(3)</td>
</tr>
<tr>
<td>**ECON 105 C</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>**ECON 105HC Honors Principles of Economics</td>
<td>(3)</td>
</tr>
<tr>
<td>or</td>
<td>GGT 240 C Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MGT 241 C Legal Aspects-Business Trans.</td>
<td>(3)</td>
</tr>
<tr>
<td>or</td>
<td>ACCT 101 C Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>ACCT 102 C Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>##MATH 115 C Finite Mathematics</td>
<td>(4)</td>
</tr>
<tr>
<td>or</td>
<td>##MATH 120 C Intro Probability &amp; Statistics</td>
<td>(4)</td>
</tr>
<tr>
<td>or</td>
<td>MATH 130 C Survey of Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units Required 21

Recommended Electives transferable to CSU:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 161 C</td>
<td>Introduction to Business</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principals of Marketing</td>
<td>(3)</td>
</tr>
</tbody>
</table>

*## These courses may be counted towards the 39 General Education Requirements on the IGETC and CSU General Ed Plan.

A score of 3 or higher on the Advanced Placement (AP) Economics (macro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

A score of 3 or higher on the Advanced Placement (AP) Economics (micro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

A score of 3 or higher on the Advanced Placement (AP) Statistics exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

GENERAL BUSINESS TRANSFER PROGRAM

Accounting, Information Technologies, Finance, Law, Management, and Marketing

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Business Law – See Management (MGT)

Chemistry

Division of Science/Engineering/Mathematics

Division Dean – Richard Fee

Faculty
Robin De Roo
Allison Gotoh
Lenore Landis
Craig Tomooka

Counselors
Deidre Porter

PROGRAM LEARNING OUTCOMES (PLOs)

The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

CHEMISTRY TRANSFER PROGRAM

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Chemistry (CHEM)

CHEM 060 C CHEMISTRY REVIEW
1 Unit (May be taken for credit 4 times)
One hour lecture per week.
Pass/No Pass
NON-DEGREE CREDIT

This course is a review of the concepts and principles of general, inorganic, and organic chemistry as taught in: Introduction to Chemistry (CHEM 101 C), Fundamentals of College Chemistry (CHEM 107 C), General Chemistry I (CHEM 111AC) and/or General Chemistry II (CHEM 111BC). It is recommended for students who have completed or are currently enrolled in one of the previously named courses.

CHEM 100 C CHEMISTRY FOR DAILY LIFE
4 Units
Three hours lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC

The course is designed for the non-science major seeking a laboratory science. The course will adopt a non-mathematical approach to explain the fundamental concepts of chemistry. From this foundation, the course will focus on topics that are related to the impact that chemistry has on our society. The laboratory section will provide hands-on experience with many of the lecture topics.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Schedule Details</th>
<th>UC/CSU, AA GE, CSU GE, IGETC</th>
<th>Prerequisites</th>
<th>Topics Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101 C</td>
<td>INTRODUCTION TO CHEMISTRY</td>
<td>5</td>
<td>Four hours lecture</td>
<td></td>
<td>Two hours discussion and Two hours laboratory per week.</td>
<td></td>
</tr>
<tr>
<td>CHEM 103 C</td>
<td>CHEMISTRY IN A CHANGING WORLD</td>
<td>3</td>
<td>Three hours lecture per week.</td>
<td>UC Credit Limitation/CSU, AA GE, CSU GE IGETC</td>
<td>This is a general education course in chemistry. A non-mathematical approach will be taken to examine the fundamental concepts of chemistry and their application to various facets of life. Topics will include a discussion of chemicals in air, water, food, drugs, and the environment, as well as areas of current interest.</td>
<td></td>
</tr>
<tr>
<td>CHEM 104 C</td>
<td>PHYSICAL SCIENCE FOR TEACHERS</td>
<td>4</td>
<td>Three hours lecture per week.</td>
<td></td>
<td>Three hours lecture and Three hours laboratory per week.</td>
<td></td>
</tr>
<tr>
<td>CHEM 107 C</td>
<td>FOUNDATIONS OF CHEMISTRY</td>
<td>5</td>
<td>Four hours lecture</td>
<td></td>
<td>Two hours discussion and Two hours laboratory per week.</td>
<td></td>
</tr>
<tr>
<td>CHEM 111 AC</td>
<td>GENERAL CHEMISTRY I</td>
<td>5</td>
<td>Three hours lecture</td>
<td></td>
<td>Two hours discussion and Four hours laboratory per week.</td>
<td></td>
</tr>
<tr>
<td>CHEM 111 BC</td>
<td>GENERAL CHEMISTRY II</td>
<td>5</td>
<td>Three hours lecture</td>
<td></td>
<td>Two hours laboratory per week.</td>
<td></td>
</tr>
<tr>
<td>CHEM 112 C</td>
<td>CHEMISTRY FOR ENGINEERS</td>
<td>3</td>
<td>Three hours lecture per week.</td>
<td></td>
<td>Three hours lecture and Three hours laboratory per week.</td>
<td></td>
</tr>
<tr>
<td>CHEM 201 C</td>
<td>BASIC ORGANIC AND BIOCHEMISTRY</td>
<td>5</td>
<td>Four hours lecture</td>
<td></td>
<td>Two hours laboratory per week.</td>
<td></td>
</tr>
<tr>
<td>CHEM 205 C</td>
<td>ANALYTICAL CHEMISTRY</td>
<td>4</td>
<td>Two hours lecture</td>
<td></td>
<td>Six hours laboratory per week.</td>
<td></td>
</tr>
</tbody>
</table>

This is a summary of courses at Cypress College for the 2010-2011 academic year, focusing on Chemistry. Each course is detailed with its units, schedule, prerequisites, and topics covered. The courses range from general chemistry to specialized topics in analytical chemistry, with detailed descriptions and prerequisites provided for each course.
Chinese

Division of Language Arts

Division Dean – Eldon Young

Faculty
Hong Chi

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

Chinese (CHIN)

CHINESE TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

CHIN 098 C CHINESE SEMINAR
1⁄2 - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to forty-eight hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. Seminars are designed to help students conceptualize and intensify knowledge in a variety of chemical topics. They may include lecture, discussions, and other activities at the discretion of the instructor. Actual seminar topics will be listed in the class schedule for a particular semester. Consult the class schedule to verify unit credit and prerequisites for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

CHIN 211AC ORGANIC CHEMISTRY I
5 Units
Three hours lecture
Two hours discussion and
Four hours laboratory per week.
UC/CSU
Prerequisite: CHEM 111BC with a minimum grade of “C”. This course is the first part of a two semester organic chemistry lecture and laboratory sequence. This course covers the study of functionalized compounds, stereochemistry, substitution and elimination reactions, alkenes, alkynes, and spectroscopic methods. Laboratory work includes the synthesis, isolation, and characterization of organic compounds by using modern techniques and instrumentation. This course is designed for students who plan to major in chemistry, biochemistry, biology, and premedical/prepharmacy/ predental programs.

CHIN 211BC ORGANIC CHEMISTRY II
5 Units
Three hours lecture
Two hours discussion and
Four hours laboratory per week.
UC/CSU
Prerequisite: CHEM 211AC with a minimum grade of “C”. This course is the second part of a two semester organic chemistry lecture and laboratory sequence. The course includes the study of radicals, aromatic compounds, carbonyl-containing compounds, amines, biologically important compounds, and strategy in organic synthesis. Laboratory work includes modern techniques required to synthesize organic compounds, and the isolation and analysis of these compounds. This course is designed primarily for students who plan to major in chemistry, biochemistry, biology, and premedical/prepharmacy/predental programs.

CHIN 298 C CHEMISTRY SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to forty-eight hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. Seminars are designed to help students conceptualize and intensify knowledge in a variety of chemical topics. They may include lecture, discussions, and other activities at the discretion of the instructor. Actual seminar topics will be listed in the class schedule for a particular semester. Consult the class schedule to verify unit credit and prerequisites for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.
Communication Studies (formerly Speech)

Division of Language Arts

Division Dean – Eldon Young

Faculty
Michael Brydges
Donna Friess
Patricia Ganer
Liana Koeppel
John Lambros

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

COMMUNICATION STUDIES TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

CHIN 101 C ELEMENTARY CHINESE - MANDARIN I
5 Units
Five hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE

The course emphasizes the acquisition of basic skills in pronunciation, listening, speaking, reading, and writing, and the grammar and vocabulary necessary to acquire these skills. Students will be introduced to customs, culture, and geography of China through lectures, films, and reading assignments.

CHIN 102 C ELEMENTARY CHINESE - MANDARIN II
5 Units
Five hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

Prerequisite: CHIN 101 C with grade of “C” or better or one year of Chinese at high school or another college with grade of “C” or better.

This course continues to emphasize the acquisition of basic skills in pronunciation, listening and speaking, reading, and writing, and the grammar and vocabulary necessary to acquire these skills. Students will increase their knowledge of the customs, culture, and geography of China and other Chinese speaking countries/areas through lectures, reading, writing assignments, and film.

CHIN 298 C CHINESE SEMINAR
1⁄2 - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade

UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is for students who wish to extend their knowledge of literature, language and culture through small group discussion. Fees may be required – PAYABLE AT REGISTRATION.

Communications – See Journalism (JOUR)

Communication Studies (COMM)

COMM 049 C ORAL COMMUNICATION FOR ADVANCED NON-NATIVES
3 Units (May be taken for credit 2 times)
Three hours lecture per week.
Pass/No Pass/Letter Grade Option

This course teaches the non-native speaker of English effective communication techniques in everyday situations. Emphasis is placed on developing speaking skills such as pronunciation, articulation, organization and delivery. This course is especially helpful for students who have completed Advanced courses in English as a Second Language.
COMM 050 C  EFFECTIVE COMMUNICATION
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
AA GE
The course is designed to teach students effective communication techniques in everyday situations. Emphasis is placed on developing communication skills in a variety of settings including interviewing, resume building, public speaking and working in small groups.

COMM 098 C  COMMUNICATION STUDIES SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is for students who wish to extend their knowledge of literature, language and culture through small group discussion. Fees may be required – PAYABLE AT REGISTRATION.

COMM 100 C  HUMAN COMMUNICATION
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Introduction to the fundamentals and principles which underlie effective speech communication. Practical experience, emphasizing content, organization and delivery, will be required in at least three speaking situations, specifically including persuasive and informative speaking. Duplicate credit not granted for COMM 100HC.

COMM 100HC  HONORS HUMAN COMMUNICATION
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
This course is a college level course enhanced for Honors students. This course will introduce students to fundamental and advanced principles which underlie effective speech communication and will offer an overview of the disciplinary field of speech communication. Enhanced practical applications, emphasizing content, organization, and delivery will be required in at least four speaking situations, specifically including persuasive and informative speaking. Principles of rhetorical criticism will also be studied. Duplicate credit not granted for COMM 100 C.

COMM 105 C  INTERPERSONAL COMMUNICATION
3 Units
Three hours lecture per week.
CSU, CSU GE
The purpose of this course is to improve the students’ understanding and the ability to deal effectively with people. Major theories in the field of interpersonal communication will be studied so the student can develop a basic understanding of them and also acquire skills for self improvement. Methods of instruction include lecture, discussion, simulation experiments, and small group activities. No formal speeches required.

COMM 120 C  INTERCULTURAL COMMUNICATION
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course focuses on the cultural and social variables, communication theories and practices, and communicative styles that affect the communication process between members of different cultures. It includes an assessment of both the communication problems that occur between members of different cultures and on methods and techniques of adapting communication in an effort to overcome such difficulties.

COMM 124 C  SMALL GROUP COMMUNICATION
3 Units
Three hours lecture per week.
UC/CSU
This course is an introduction to theoretical and applied concepts in small group communication through participation and observation, analysis, and evaluation of group processes. Elements of small group behavior to be studied include leadership, roles, norms, networks, conflict and cohesion needs, and decision making.

COMM 135 C  ESSENTIALS OF ARGUMENTATION
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE
This course is a study of argumentation—logic, reasoning, analysis of issues, audience analysis, evidence, refutation, case construction—and its relationship to advocacy. Emphasis is placed on the development of critical thinking skills.

COMM 138 C  FORENSICS
1 - 2 Units (Variable Unit Class) (May be taken for credit 2 times)
(Open Entry-Open Exit)
Two hours lecture and
One hour laboratory per week.
CSU, CSU GE
This course is designed to prepare students to participate in intercollegiate speech competition. Practical experience, emphasizing content, organization and delivery will be offered in debate, persuasive speaking, informative speaking, extemporaneous speaking, impromptu speaking and oral interpretation.

COMM 220 C  THE RHETORIC OF THE CITY
3 Units
Three hours lecture per week.
CSU, AA GE, CSU GE
This course will examine the communicative meanings found in the culture, environment, history and social structure of a specific city. Students will be exposed to an interdisciplinary focus on a specific city and will examine the communicative interrelationships between the city and its populace. Duplicate credit not granted for COMM 220HC.
COMM 220HC  HONORS RHETORIC OF THE CITY
3 Units
Three hours lecture per week.
CSU, AA GE, CSU GE
This course is a college level course enhanced for Honors students. This course will be conducted as a seminar. This course will examine the communicative meanings found in the culture, environment, history and social structure of a specific city. Students will be exposed to an interdisciplinary focus on a specific city and will examine the communicative interrelationships between the city and its populace. Duplicate credit will not be granted for COMM 220 C.

COMM 238 C  FORENSICS
1 - 2 Units (Variable Unit Class) (May be taken for credit 2 times)
(Open Entry-Open Exit)
Two hours lecture and
One hour laboratory per week.
CSU, CSU GE
This course is designed to prepare students to participate in intercollegiate speech competition. Practical experience, emphasizing content, organization and delivery will be offered in debate, persuasive speaking, informative speaking, extemporaneous speaking, impromptu speaking and oral interpretation.

COMM 298 C  COMMUNICATION STUDIES SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is for students who wish to extend their knowledge of literature, language and culture through small group discussion. Fees may be required – PAYABLE AT REGISTRATION.

COMM 299 C  COMMUNICATION STUDIES INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 3 times)
One-half to two hours conference per week.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. This course is for able students who wish to increase their knowledge of speech/communication/language through individual study or research.

Computer Information Systems

Division of Business and Computer Information Systems

Division Dean – Dave Wassenaar

Faculty
Patricia Dellinger
Behzad Izadi
Susana Jianto
Richard McKnight
Alireza Moady
Patricia Pelachik
Jesse Saldana
Donna Woo
Penn Wu

Counselors
Robert Grantham

PROGRAM LEARNING OUTCOMES (PLOs)

Computer Application
A student who completes the Computer Application field of study will be able to:
• Demonstrate the knowledge and skills to perform investigation in file system, operating systems, registry, logs, emails, Internet history, or other digital storage media
• Use contemporary software application to create and modify word processing, spreadsheet, database, or presentation files
• Acquire computer application skills to enhance his/her employment opportunity

Computer Networking
A student who completes the Computer Networking field of study will be able to:
• Understand computer networking concepts including network security, and the operation of client & server computers and networking devices
• Acquire hands-on skills to configure, maintain, and troubleshoot client and server computers, and networking devices
• Enhance his/her employment opportunity in the specific area of computer networking
Computer Programming
A student who completes the Computer Programming field of study will be able to:
- Acquire problem analysis skills to design suitable solutions
- Code, debug, implement and maintain the computer programs
- Enhance his/her employment opportunity in the specific area of computer programming

Web Applications & Programming
A student who completes the Web Applications field of study will be able to:
- Demonstrate the knowledge and skills to employ the Internet tools to search the Web, manage email, communicate on the Web, download programs, share information, and strengthen Web security.
- Demonstrate the knowledge and skills to create and implement maintainable Web sites using a range of programming techniques and languages.
- Demonstrate the knowledge and skills to apply a variety of Web site management tools to maintain Web sites.
- Enhance his/her employment opportunity in a specific area of Web applications programming.

ASSOCIATE IN ARTS DEGREE BUSINESS ADMINISTRATION Program Code: 1A16599
This curriculum is designed to provide an opportunity for the business major to achieve an Associate in Arts Degree Business Administration while completing the first and second year requirements for transfer to a four-year institution. While a baccalaureate degree is recommended preparation for those considering professional careers in business administration, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work.

Students should consult a counselor and the catalog of the individual college or university to plan a program of study. The Internet site www.cypresscollege.edu will also provide information for California public universities. Courses selected to fulfill the requirements of the associate degree should reflect requirements of the college to which the student plans to transfer.

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 percent 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 are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 161 C</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>*ECON 100 C</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>**ECON 100HC</td>
<td>Honors Principles of Economics</td>
<td>(3)</td>
</tr>
<tr>
<td>**ECON 105 C</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>**ECON 105HC</td>
<td>Honors Principles of Economics</td>
<td>(3)</td>
</tr>
<tr>
<td>MGT 240 C</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 241 C</td>
<td>Legal Aspects-Business Trans.</td>
<td>(3)</td>
</tr>
<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 102 C</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>MATH 130 C</td>
<td>Survey of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Elective

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 211 C</td>
<td>Writing for Business</td>
<td>3</td>
</tr>
</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Economics (macro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Economics (micro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

CISCO NETWORKING CERTIFICATE Program Code: 1K12937
This curriculum prepares the students for a career in the area of computer networking. The program is designed to teach students the skills needed to design, build, and maintain small to medium-size networks. The certificate totals 12 units in required courses.

To earn a certificate, computer the required courses as 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:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 230 C</td>
<td>Cisco Networking 1</td>
<td>3</td>
</tr>
<tr>
<td>CIS 231 C</td>
<td>Cisco Networking 2</td>
<td>3</td>
</tr>
<tr>
<td>CIS 232 C</td>
<td>Cisco Networking 3</td>
<td>3</td>
</tr>
<tr>
<td>CIS 233 C</td>
<td>Cisco Networking 4</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

ASSOCIATE IN SCIENCE DEGREE COMPUTER APPLICATIONS Program Code: 1S07824
The Associate in Science Degree Computer Applications program provides theoretical and practical knowledge to students in the area of computer applications. This degree program focuses on recent developments and current discoveries in computer applications from academia and business related industries. This degree program is aimed at students who need to apply an understanding of computer applications to an on-the-job learning environment.

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.
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.

**COMPUTER APPLICATIONS**

**CERTIFICATE**  
Program Code: 1C21105

This curriculum gives the student a working knowledge for a career in the area of computer applications. The certificate totals 28-30 units in required courses.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 107 C</td>
<td>Introduction to Windows</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 110 C</td>
<td>Linux Operating Systems</td>
<td>(3)</td>
</tr>
<tr>
<td>CIS 108 C</td>
<td>Introduction to Internet</td>
<td>2</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 132 C</td>
<td>Spreadsheet – Excel for Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIS 142 C</td>
<td>Database – Access for Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIS 160 C</td>
<td>Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS 182 C</td>
<td>Data Communications Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS 211 C</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 115 C</td>
<td>Desktop Publishing - Publisher</td>
<td>2</td>
</tr>
<tr>
<td>CIS 250 C</td>
<td>Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>CIS 116 C</td>
<td>Microsoft Outlook/PDA</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>28-30</strong></td>
</tr>
</tbody>
</table>

**ADVANCED COMPUTER OFFICE APPLICATIONS**

**CERTIFICATE**  
Program Code: 1K07824

This certificate program will provide the student with higher level skills needed to work in a business office environment or in an Information Technology department. Successful completion will enable the student to work in the capacity of office assistant, computer application specialist, or administration assistant.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 075 C</td>
<td>Business Skills Development</td>
<td>2</td>
</tr>
<tr>
<td>CIS 251 C</td>
<td>Advanced Word Processing</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>28-30</strong></td>
</tr>
</tbody>
</table>

**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 percent 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.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 132 C</td>
<td>Spreadsheet - Excel for Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIS 142 C</td>
<td>Database - Access for Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIS 150 C</td>
<td>Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 160 C</td>
<td>Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS 211 C</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 250 C</td>
<td>Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>MGT 111 C</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>or MGT 211 C</td>
<td>Writing for Business</td>
<td>(3)</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

**COMPUTER INFORMATION SYSTEMS**

**CERTIFICATE**  
Program Code: 1C21104

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. The certificate totals 27 units in required courses.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 132 C</td>
<td>Spreadsheet - Excel for Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIS 142 C</td>
<td>Database - Access for Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIS 150 C</td>
<td>Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 160 C</td>
<td>Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS 211 C</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 250 C</td>
<td>Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>MGT 111 C</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MGT 211 C</td>
<td>Writing for Business</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Total Units Required: 18

ASSOCIATE IN SCIENCE DEGREE

COMPUTER PROGRAMMING

Program Code: 1S03768

This program prepares the student for a career in the area of computer programming. The curriculum is designed to develop a working knowledge of what is required to be successful in business computer programming.

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.

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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 211 C</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 217 C</td>
<td>Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 223 C</td>
<td>Visual C++ Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 226 C</td>
<td>Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 218 C</td>
<td>Visual C# Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 18

COMPUTER SOFTWARE AND APPLICATION

CERTIFICATE

Program Code: 1K00007

This certificate focuses on business software applications used to manage and format information in word processing, in a spreadsheet or database, for desktop publishing, on the Internet, or as a Web page. Students apply their software application knowledge to on-the-job learning situations.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101 C</td>
<td>Intro. to Keyboarding/MS Word</td>
<td>3</td>
</tr>
<tr>
<td>CIS 108 C</td>
<td>Introduction to Internet</td>
<td>2</td>
</tr>
<tr>
<td>CIS 150 C</td>
<td>Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 250 C</td>
<td>Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>CIS 115 C</td>
<td>Desktop Publishing - Publisher</td>
<td>1</td>
</tr>
<tr>
<td>CIS 103 C</td>
<td>Microsoft Excel and PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>CIS 155 C</td>
<td>Microsoft Expression Web Apps</td>
<td>3</td>
</tr>
<tr>
<td>CIS 157 C</td>
<td>Dreamweaver Business Apps</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Total Units Required: 17

GAME PROGRAMMING SKILLS CERTIFICATE

The Game Programming certificate is designed for students who wish to learn the essential game programming skills to get started in the exciting world of computer game software. Upon the completion of all required courses students will have the basic skills required to create gaming environments and scenarios.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 211 C</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>ACG 164 C</td>
<td>Adobe Flash Designer/Mac</td>
<td>3</td>
</tr>
<tr>
<td>MMCG 164 C</td>
<td>Adobe Flash Designer/Mac</td>
<td>(3)</td>
</tr>
<tr>
<td>ACG 165 C</td>
<td>Adobe Flash Designer/Win</td>
<td>(3)</td>
</tr>
<tr>
<td>MMCG 165 C</td>
<td>Adobe Flash Designer/Win</td>
<td>(3)</td>
</tr>
<tr>
<td>CIS 260 C</td>
<td>Game Concepts Development</td>
<td>3</td>
</tr>
<tr>
<td>CIS 261 C</td>
<td>Game Programming</td>
<td>3</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 15

ADVANCED GAME DEVELOPMENT/PROGRAMMING

SKILLS CERTIFICATE

The Advanced Game Development/Programming Certificate is designed to prepare students with the focused knowledge and understanding of game development techniques in order to gain basic and advanced skills necessary for fast growing careers in digital entertainment and video games industries. The curriculum covers programming languages, 3D game engines, mobile games, and Windows based games in a multiplayer environment. To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

Required 2 core courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 211 C</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 2 of the following courses:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 217 C</td>
<td>Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 218 C</td>
<td>Visual C# Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 223 C</td>
<td>Visual C++ Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 226 C</td>
<td>Java Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 12
The Advanced Game Development/Programming Certificate is designed to prepare students with the focused knowledge and understanding of game development techniques in order to gain basic and advanced skills necessary for fast growing careers in digital entertainment and video games industries. The curriculum covers programming languages, 3D game engines, mobile games, and Windows based games in a multiplayer environment. To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 223 C</td>
<td>Visual C++ Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 263 C</td>
<td>Mobile Game Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 264 C</td>
<td>Windows Game Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 265 C</td>
<td>3D Game Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 266 C</td>
<td>Game Programming in Flash</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**COMPUTER FORENSICS CERTIFICATE**
Program Code: Pending
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 percent of all course work must be completed at Cypress College.

Students who successfully complete the following required courses are eligible for applying for certification in Computer Forensics:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 276 C</td>
<td>Computer Forensics I</td>
<td>3</td>
</tr>
<tr>
<td>CIS 277 C</td>
<td>Computer Forensics II</td>
<td>3</td>
</tr>
<tr>
<td>CIS 278 C</td>
<td>Cyber Crime</td>
<td>3</td>
</tr>
<tr>
<td>CIS 279 C</td>
<td>Comp Forensics Legal Aspects</td>
<td>3</td>
</tr>
<tr>
<td>CIS 280 C</td>
<td>Analysis of Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>CIS 281 C</td>
<td>Computer Forensics Capstone</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**INTERNET AND DATA COMMUNICATIONS SKILLS CERTIFICATE**
Program Code: 1K0008
This certificate program provides theoretical and practical knowledge to students in the areas of Personal Computer Networking, Internet, and Web Publishing. This certificate program focuses on recent developments and current discoveries in data communications and Web technologies.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 108 C</td>
<td>Introduction to Internet</td>
<td>2</td>
</tr>
<tr>
<td>CIS 109 C</td>
<td>E-Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 155 C</td>
<td>Microsoft Expression Web Apps</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 157 C</td>
<td>Dreamweaver Business Apps</td>
<td>3</td>
</tr>
<tr>
<td>CIS 179 C</td>
<td>Intro to Web Page Design</td>
<td>3</td>
</tr>
<tr>
<td>CIS 182 C</td>
<td>Data Communications Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS 220 C</td>
<td>Web Page Programming</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

**INTERNET MARKETING SKILLS CERTIFICATE**
Program Code: 1K00043
This curriculum prepares students for a career in the field of Internet Marketing. Students, who complete the program, will learn how to utilize the Internet as a marketing tool to promote a business, interact with customers, suppliers and distributors, generate sales, conduct marketing research, and engage in other E-business activities.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 210 C</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKT 103 C</td>
<td>Principles of Advertising</td>
<td>(3)</td>
</tr>
<tr>
<td>CIS 108 C</td>
<td>Introduction to Internet</td>
<td>2</td>
</tr>
<tr>
<td>CIS 109 C</td>
<td>E-Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 179 C</td>
<td>Intro to Web Page Design</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**SPECIALTY IN JAVA PROGRAMMING**
Program Code: 1K00077
This program is designed to develop a working knowledge of what is required to be successful in business computer programming using Java. A curriculum consisting of: beginning and advanced Java programming courses.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 211 C</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 226 C</td>
<td>Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 234 C</td>
<td>Advanced Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 252 C</td>
<td>Java Web Applications</td>
<td>(3)</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**SPECIALTY IN MICROSOFT ACCESS**
Program Code: 1K00078
This program is designed to develop a working knowledge of what is required to be successful in business using Microsoft Access.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 142 C</td>
<td>Database – Access for Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIS 242 C</td>
<td>Database – Advanced MS Access</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**SPECIALTY IN MICROSOFT EXCEL**
Program Code: 1K00079
This program is designed to develop a working knowledge of what is required to be successful in business using Microsoft Excel.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 142 C</td>
<td>Database – Access for Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIS 242 C</td>
<td>Database – Advanced MS Access</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>
### PROJECT MANAGEMENT SKILLS CERTIFICATE

The Project Management Certificate is designed to help students:

- Understand the role and functions of the project manager.
- Plan and manage projects using Microsoft Project software, Work Breakdown Structures, Gantt charts, and PERT charts.
- Manage project time, budget, and project team more effectively. D. Apply these tools immediately by completing a project plan and budget as part of the course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 274 C</td>
<td>Project Mgmt Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIS 216</td>
<td>Microsoft Project</td>
<td>3</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MGT 262 C</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MGT 266 C Human Relations in Business</td>
<td>(3)</td>
</tr>
</tbody>
</table>

### VISUAL BASIC PROGRAMMING SKILLS CERTIFICATE

**Program Code: 1K00038**

This program is designed to develop a working knowledge of what is required to be successful in business computer programming. A curriculum consisting of: beginning, intermediate, and advanced Visual Basic programming courses.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 211 C</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 217 C</td>
<td>Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 219 C</td>
<td>Advanced Visual Basic</td>
<td>3</td>
</tr>
</tbody>
</table>

### VISUAL C PROGRAMMING SKILLS CERTIFICATE

**Program Code: 1K00039**

This program is designed to develop a working knowledge of what is required to be successful in business computer programming. A curriculum consisting of Visual C++ and Visual C# programming courses.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 211 C</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 218 C</td>
<td>Visual C# Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS 223 C</td>
<td>Visual C++ Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

### TECHNOLGary MANAGEMENT SKILLS CERTIFICATE

**Program Code: Pending**

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, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

<table>
<thead>
<tr>
<th>Core Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 160 C</td>
<td>Information Systems Management</td>
</tr>
<tr>
<td>or CIS 182 C</td>
<td>Data Communications Management</td>
</tr>
<tr>
<td>CIS 274 C</td>
<td>Project Mgmt Fundamentals</td>
</tr>
<tr>
<td>MGT 161 C</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>MGT 262 C</td>
<td>Principles of Management</td>
</tr>
<tr>
<td>or MGT 266 C</td>
<td>Human Relations in Business</td>
</tr>
</tbody>
</table>

**Total Units Required**

- **VISUAL BASIC PROGRAMMING SKILLS CERTIFICATE**: 12 units
- **VISUAL C PROGRAMMING SKILLS CERTIFICATE**: 12 units
- **TECHNOLOGY MANAGEMENT SKILLS CERTIFICATE**: 12 units

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.
MICROSOFT NETWORKING CERTIFICATE  Program Code: Pending
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, students must complete the required courses as 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:
Course # Title Units
CIS 184 C Windows Client Administration 3
CIS 185 C Windows Server Administration 3
CIS 189 C MS Windows Active Directory 3
CIS 191 C Network Infrastructure Admin. 3
CIS 194 C Internet Security (ISA) Server 3

Take 1 of the following courses:
CIS 182 C Data Communications Management 3
CIS 187 C MS Windows Exchange Server 3
CIS 188 C Microsoft Windows TCP/IP 3
CIS 197 C Microsoft Network Design 3

Total Units Required 18

WEB NETWORKING TECHNOLOGY CERTIFICATE  Program Code: Pending
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 developing interactive and collaborative Web sites.

To earn a certificate, students must complete the required courses as 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:
Course # Title Units
CIS 120 C Advanced Internet Applications 3
CIS 121 C Adobe PDF Document Management 3
CIS 155 C Microsoft Expression Web Apps 3
or
CIS 157 C Dreamweaver Business Apps (3)
CIS 179 C Intro. to Web Page Design 3
CIS 221 C Web Networking Technology 3
CIS 262 C New Technology 2

Total Units Required 17

WEB PAGE DESIGN SKILLS CERTIFICATE  Program Code: 1K00014
This certificate focuses on the current development in Web page technologies used in academia and the business industry. This certificate prepares students to design and modify Web pages using current software programs or programming languages and apply their knowledge to on-the-job learning situations.

To earn a certificate, students must complete the required courses as 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:
Course # Title Units
CIS 108 C Introduction to Internet 2
CIS 109 C E-Business Applications 3
CIS 155 C Microsoft Expression Web Apps 3
or
CIS 157 C Dreamweaver Business Apps (3)
CIS 179 C Intro. to Web Page Design 3
CIS 211 C Introduction to Programming 3
CIS 220 C Web Page Programming 3

Total Units Required 17

ADVANCED WEB PAGE DESIGN CERTIFICATE  Program Code: 1K00072
The Advanced Web Page Design Certificate offers advanced and latest programming technologies in the area of Web publishing and Web site management with e-commerce capabilities. Students will learn how to implement a full-featured Web site on the Internet or a corporate Intranet including deploying dynamic content using related tools. This certificate is designed for students who need to apply for positions such as Web Programmer, Web Master, Web Page Designer, Marketing and Advertising Coordinator, and Web Technical Support.

To earn a certificate, students must complete the required courses as 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:
Course # Title Units
CIS 179 C Intro to Web Page Design 3
CIS 220 C Web Page Programming 3
CIS 245 C Perl Programming 3
CIS 247 C Python Programming 3
CIS 246 C PHP Programming 3

Take 1 of the following courses:
CIS 222 C Web Server Management (3)
CIS 225 C Web Programming with ASP (3)
CIS 229 C Intro to XML Programming (3)

Total Units Required 18

ADVANCED NETWORKING CERTIFICATE  Program Code: Pending
This curriculum focuses on advanced networking concepts such as network security, voice over IP, wireless LANS and Microsoft networking services. Special emphasis is on developing hands-on skills with advanced networking equipment.

To earn a certificate, students must complete the required courses as 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:
Course # Title Units
CIS 182 C Data Communications Management 3
CIS 185 C Windows Server Administration 3
CIS 191 C Network Infrastructure 3

Take 1 of the following courses:
CIS 239 C CCNA Bootcamp 3
CIS 240 C Cisco Wireless Networking 3
CIS 248 C Voice Over IP 3

Take 2 of the following courses:
CIS 187 C MS Windows Exchange Server 3
or
CIS 194 C Internet Security (ISA) Server (3)
CIS 195 C Network Security 3
CIS 196 C Anti-Hacking Network Security 3
CIS 258 C CCNA Security 3

Total Units Required 15
CIS 102 C DOCUMENT FORMATTING – MS WORD
3 Units
Three hours lecture
Two hours laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
Advisory: CIS 101 C, or CIS 125 C, or a basic knowledge of MS Word and the ability to type 20 wpm. This course teaches the student how to create and format business documents using Microsoft Word. Focus will be on building keyboarding speed and accuracy and using Word features such as mail merge, table of contents and index generator, styles, graphics, etc. to generate letters, tables, reports and newsletters. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 103 C MICROSOFT EXCEL AND POWERPOINT
3 Units
Three hours lecture and
Two hours laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
Advisory: CIS 101 C, or CIS 125 C, or a basic knowledge of MS Word and the ability to type 20 wpm. This course teaches the student how to use Excel and PowerPoint for business and professional use. This course provides the student with the knowledge and skills necessary to take the Core level Microsoft Office Specialist Excel and Comprehensive PowerPoint exams. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 107 C INTRODUCTION TO WINDOWS
1 Unit
One hour lecture and
One hour laboratory TBA per week.
CSU
This course is designed to use Microsoft Windows on the personal computer. It covers the graphical user interface, and how to manipulate Windows, using Help, and launching Applications. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 108 C INTRODUCTION TO INTERNET
2 Units
Two hours lecture and
One hour laboratory per week.
CSU
This course will prepare students to use the Internet, a worldwide computer network. Emphasis is on introducing the features of Internet, including electronic mail, Telnet, FTP (File Transfer Protocol), Usenet, and Gopher, as well as other Internet services and utilities. Students will explore the vast resources of the Internet and learn to access information using a variety of hands-on methods. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 109 C E-BUSINESS APPLICATIONS
3 Units
Three hours lecture and
One hour laboratory per week.
CSU
This course introduces the technological infrastructure needed for implementing e-Business solutions. It also discusses the software components necessary to implement such applications. A major component of the course will be hands-on projects of evaluating e-business tools and application software. $3.00 Materials Fee – PAYABLE AT REGISTRATION.
CIS 110 C  LINUX OPERATING SYSTEM
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
UC/CSU, AA GE, CSU GE
This course is an introduction to the Linux operating system. Topics include installing, configuring, maintaining, administering, and troubleshooting of the Linux Operating System. It provides preparation for the Sair Linux Certification. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 111 C  COMPUTER INFORMATION SYSTEMS
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
This course is an introduction to computer concepts, computer organization, operation, hardware, systems and application software; business-problem solving; and applications to business. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 113 C  MS ACCESS AND EXPRESSION WEB
3 Units
Two hours laboratory per week.
This course teaches the student how to use Expression Web and Access for business and professional use. This course provides the student with the knowledge and skills necessary to take the Specialist level Microsoft Office Access and Web Expression exams. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 114 C  MS OUTLOOK/OFFICE PROCEDURES
3 Units
(Formerly OFF 049 C)
Three hours lecture and
One hour laboratory TBA per week.
This course prepares management or office personnel for work in a computerized office environment. MS Outlook is taught in this class and integrated with Word, PowerPoint, and Excel. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 115 C  DESKTOP PUBLISHING - PUBLISHER
1 - 2 Units (Variable Unit Class) (May be taken for credit 2 times)
(Open Entry-Open Exit)
One-half to one hour lecture and
One and one-half to three hours laboratory TBA per week.
This course is designed for office support staff, secretaries, administrative assistants, small business owners, and others who require a basic knowledge of business desktop publication applications. This course uses Microsoft Office Publisher. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 116 C  MICROSOFT OUTLOOK AND PDA
3 Units
Three hours lecture and
One hour laboratory per week.
Prerequisite: CIS 101 C or ability to type 20 WPM. Students will learn to use Microsoft Outlook as a Personal Information Manager. They will learn to use and manage the Calendar, Contacts, Tasks, Notes, and Mail features in both Outlook and the PDA. Outlook features will be integrated with Microsoft Word and the PDA. Students will complete the competencies for Microsoft Office Outlook Specialist Certification. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 119 C  DATA PROC.-INDEPENDENT STUDY
1 - 2 Units (Variable Unit Class)
One hour lecture per week for minimum credit.
Prerequisite: Approved Independent Study Learning Contract. In this course, the student will investigate, plan, block diagram, design, program, test, debug, run, and document a data processing application. The application may be chosen by the student (with the instructor’s approval), or it may be assigned by the instructor. The actual programming can be done in any programming language or application software package.

CIS 120 C  ADVANCED INTERNET APPLICATIONS
3 Units
Three hours lecture and
One hour laboratory per week.
Prerequisite: Approved Independent Study Learning Contract.
This course provides students an opportunity to develop an understanding of various Internet applications. In doing this, students will study the Internet fundamentals, client/server applications, networking, Web site development, Internet security, and E-commerce. At the completion of this course, students will learn Internet, Intranet, and Extranet services and technologies. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 121 C  ADOBE PDF DOCUMENT MANAGEMENT
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
Pass/No Pass/Letter Grade Option
This class is designed to teach students to use Adobe Acrobat Professional to convert technical documents to PDF (Portable Document Format) files. Students will prepare, edit, and format PDF documents, enhance and control PDF accessibility features, create interactive documents that can be shared via email and the Web, and prepare PDF documents for commercial printing. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 125 C  PERSONAL TYPING/KEYBOARDING
2 Units
One hour lecture and
Two hours laboratory per week.
Pass/No Pass/Letter Grade Option
This is a beginning course designed for students to learn typing for personal use. The emphasis is on developing keyboarding skills and creating personal business documents. $3.00 Materials Fee – PAYABLE AT REGISTRATION.
CIS 132 C  SPREADSHEET - EXCEL FOR WINDOWS  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
CSU  
This course is designed to introduce students to the use of spreadsheet programs in the solution of problems. Students will use spreadsheet software to create, edit, graph, save, and print out spreadsheets. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 142 C  DATABASE - ACCESS FOR WINDOWS  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
CSU  
This course is designed to introduce the student to the use of database programs to solve record keeping problems. Students will use database software to create, update, and report data files. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 150 C  MICROSOFT OFFICE APPLICATIONS  
3 Units (May be taken for credit 4 times)  
Three hours lecture and  
One hour laboratory per week.  
Pass/No Pass/Letter Grade Option  
CSU  
This course studies the terms, concepts, and features of Microsoft Office software in today's business office. Students will create hands-on application office projects using Microsoft Office. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 155 C  MICROSOFT EXPRESSION WEB APPS  
3 Units  
Three hours lecture and  
One hour laboratory per week.  
Pass/No Pass/Letter Grade Option  
CSU  
This course offers the introductory and advanced features of Microsoft Expression Web and how it can be utilized in creating personal and business Web applications. Topics include introducing Expression Web, creating and revising Web pages, using links, images, and task lists, creating tables, frames, borders, form applications, and dynamic Web templates. In addition, students will explore HyperText Markup Language (HTML), Extensible HyperText Markup Language (XHHTML), and Cascading Style Sheets (SSD) Web techniques. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 157 C  DREAMWEAVER BUSINESS APPLICATIONS  
3 Units  
Three hours lecture and  
One hour laboratory per week.  
Pass/No Pass/Letter Grade Option  
CSU  
Advisory: ACG 103 C or by consent of instructor. This course covers advanced topics in Adobe Dreamweaver. Topics include using layers, styles, templates, library elements, and automation to create Web pages. In addition, the course offers several features to create dynamic and database-driven Web application sites. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 160 C  INFORMATION SYSTEMS MANAGEMENT  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
CSU  
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. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 161 C  PC OPERATING SYSTEM  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
Pass/No Pass/Letter Grade Option  
CSU  
This course introduces students to different Personal Computer (PC) operating systems such as MS-DOS and all versions of Windows. Topics include installing, configuring, upgrading, diagnosing, and troubleshooting desktop operating systems. Students will acquire basic knowledge of Command Line Prompt and previous and current versions of Windows to provide technical support and services for personal computers and the related operating systems. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 162 C  PC HARDWARE CONFIGURATIONS  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
Pass/No Pass/Letter Grade Option  
CSU  
This course prepares students with both theoretical and practical lessons relating to Microcomputer hardware. Emphasis is placed on how hardware components function together to make a Microcomputer work properly, how software interacts with hardware, and practical methods to protect hardware and software. Topics include installing, configuring, and upgrading personal computer components and peripherals in a networked environment. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 163 C  INTRODUCTION TO NETWORK HARDWARE  
3 Units  
Three hours lecture and  
One hour laboratory per week.  
Pass/No Pass/Letter Grade Option  
CSU  
This course builds on students' knowledge of basic networking concepts and theory through hands-on experience. The course will provide students with an in-depth understanding of network infrastructure, standards, and technologies. Students will gain hands-on experience with current network design issues, protocol, and components. Hands-on experience will also include working with wired and wireless standards and network components such as servers, routers, switches, hubs, and firewalls. $3.00 Materials Fee – PAYABLE AT REGISTRATION.
CIS 164 C  COMPUTER DESKTOP SUPPORT
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This class is designed to teach students the crucial skills needed
to work as a computer end-user support in an Active Directory
network environment or Windows workgroup environment as well
as how to troubleshoot applications running in Microsoft Windows
platform. Students will learn the kinds of knowledge, skills, abili-
ties, and strategies they need to be employable in the support
industry. Emphasis will be placed on end-user computing, com-
munication and customer service skills of user support staff, prob-
lem solving strategies, common support problems, and technical
skills required for user support positions. This course prepares
students for the Microsoft Certified Desktop Support Technician
curriculum (MCDST). $3.00 Materials Fee – PAYABLE AT
REGISTRATION.

CIS 179 C  INTRO. TO WEB PAGE DESIGN
3 Units
Three hours lecture and
One hour laboratory per week.
CSU
This course introduces students to Web publishing with HTML
(HyperText Markup Language) for business and personal applica-
tions. Students will learn fundamentals of the Internet and how to
employ HTML techniques to convey their messages, and design a
professional-looking Web site. Emphasis is placed on learning the
HyperText Markup Language from the basic tags to the advanced
topics such as tables, forms, graphics, and creation of the busi-
ness-related Web pages. $3.00 Materials Fee – PAYABLE AT
REGISTRATION.

CIS 182 C  DATA COMMUNICATIONS
MANAGEMENT
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
Pass/No Pass/Letter Grade Option
CSU
This course provides hands-on experience covering the duties of a
network administrator. Students will understand basic networked
communications and identify essential networked components. Top-
ics include communication concepts, communication components
and hardware, communication media, topologies, protocols, local
and wide area networks, network administration and support, and
wireless communications. Students will use their computers to exam-
mine Windows related network administration commands during the
lecture. It is designed for every one with an interest in data communi-
cations and system administration. $3.00 Materials Fee – PAYABLE
AT REGISTRATION.

CIS 184 C  WINDOWS CLIENT ADMINISTRATION
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course introduces students to Microsoft Client for Windows
on the personal computer. Students will learn the features and
architecture of the Windows operating system. This course will
cover an overview of the Windows program installation, working
with files and folders, how to manipulate Windows printing system,
configuring local group policy as well as client software, user man-
agement, and monitoring system performance. $3.00 Materials
Fee – PAYABLE AT REGISTRATION.

CIS 185 C  WINDOWS SERVER ADMINISTRATION
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course introduces students to Microsoft Windows Server Man-
agement and enterprise networks. Topics include installing the
server operating system, administrating user accounts, managing
system resources, installing active directory, and implementing DNS
service. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 187 C  MS WINDOWS EXCHANGE SERVER
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course introduces students to the administration of Microsoft
Exchange Server. Students learn an overview of the Exchange
Server environment, installing and administrating Exchange
Server, user and database management, and operating Exchange
Server in a networking environment. Emphasis is placed on install-
ing and administrating Exchange Server, setting up user accounts
and user access, and managing resources. Students should be
familiar with the basic concepts of data communications and using
Microsoft Windows operating system. $3.00 Materials Fee – PAY-
ABLE AT REGISTRATION.

CIS 188 C  MICROSOFT WINDOWS TCP/IP
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course increases student knowledge of the Transmission
Control/Internet Protocol (TCP/IP) by introducing theory on how
the protocol functions, installation and configuration techniques,
and utilities to manage a TCP/IP based network. Topics include
TCP/IP theory and operation, installing TCP/IP on a Microsoft net-
work, configuring protocol settings, troubleshooting, and manag-
ing a TCP/IP network. Students should be familiar with the basic
concepts of data communications and using Microsoft Windows
operating system. $3.00 Materials Fee – PAYABLE AT
REGISTRATION.
CIS 189 C  MS WINDOWS ACTIVE DIRECTORY
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course introduces students to Microsoft Windows Active Directory and enterprise networks. Students learn an overview of the Windows operating system in a networked environment, installing and administrating DNS servers, Active Directory management and networking. Emphasis is placed on managing a Windows Active Directory network, setting up user accounts and user access, and managing resources. Students should be familiar with the basic concepts of data communications and using Microsoft Windows operating system. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 191 C  NETWORK INFRASTRUCTURE ADMIN.
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course provides students with the knowledge and skills necessary to manage, monitor, troubleshoot, and support a Microsoft enterprise network. Emphasis is placed on analyzing the requirements of business organizations for implementing a reliable network infrastructure strategy. Emphasis is placed on the underlying services and protocols such as DNS (Domain Naming Service), DHCP (Dynamic Host Configuration Protocol), Remote Access, Network Protocols, IP (Internet Protocol) Routing, VPN (Virtual Private Network), and WINS (Windows Internet Naming Service). $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 194 C  INTERNET SECURITY (ISA) SERVER
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course prepares students to install and configure the Microsoft Internet Security and Acceleration Server (ISA) Enterprise Edition. Students will gain knowledge of how to use the Microsoft ISA server as both a firewall and web-caching server. Topics include installing the ISA server; configuring and troubleshooting the ISA server services; configuring, managing, and troubleshooting policies and rules; deploying, configuring, and troubleshooting the client computer; and monitoring, managing, and analyzing the ISA server use. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 195 C  NETWORK SECURITY
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course prepares students to identify network security threats and implement procedures for securing networks. Topics include authentication, attacks and malicious codes, intruder detection, remote access security, web security, e-mail security, directory service and file transfer security, and firewalls. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 196 C  ANTI-HACKING NETWORK SECURITY
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course prepares students to identify tools and methods used by computer/network hackers to analyze past attacks and to learn how these attacks could have been prevented. It also provides training in protecting networks by using an attackers knowledge to compromise network security. Topics include footprinting, port scanning, enumeration, hacking Microsoft Windows and Unix operating system platforms, VPN hacking, firewalls, advanced techniques, and Web hacking. $3.00 Material Fee – PAYABLE AT REGISTRATION.

CIS 197 C  MICROSOFT NETWORK DESIGN
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course prepares students to work with the Microsoft network operating systems in medium to very large business environments. Emphasis will be placed on how to analyze an organization’s business needs for designing a network infrastructure as well as a directory services infrastructure. Network infrastructure elements include: analyzing business requirements, analyzing technical requirements, designing a Microsoft network infrastructure, designing for Internet connectivity, designing a wide area network infrastructure, and designing a management strategy for Microsoft networking. Directory services elements include: analyzing an organization’s business needs for designing a directory services infrastructure. In addition, students will learn through hands-on practices, the four steps of active directory infrastructure design process including creating a forest plan, a domain plan, an organizational unit (OU) plan and a site topology plan. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 198 C  MICROSOFT NETWORK EXAMS PREP.
3 Units
Two hours lecture and
Two hours laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course prepares students for Microsoft Certification exams in Windows Client/Server Administration, Network Infrastructure, and Active Directory. Students will use exam certification simulators during the course to create a simulation of actual certification questions in novel and creative ways. Upon course completion, students will be prepared for Microsoft Certified Professional (MCP) exams. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 211 C  INTRODUCTION TO PROGRAMMING
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
UC/CSU
This beginning course in programming introduces students to the Visual C# .NET and Visual Basic .NET programming languages. Students will learn how to design, code, and debug programs common to the business environment. Some of the topics include: Program Design, Control Structures, Functions, Sub Procedures, Form Design, and Object-Oriented coding. $3.00 Materials Fee – PAYABLE AT REGISTRATION.
CIS 216 C  MICROSOFT PROJECT  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
CSU  
This course uses Microsoft Project to create a task list, set up and assign resources, format and print plans, track progress, share project information, and manage project teams. Students will learn how to solve typical project and business problems using the planning, control and reporting features of Microsoft Project. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 217 C  VISUAL BASIC PROGRAMMING  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
UC/CSU  
Prerequisite: CIS 211 C. This course introduces students to the Visual Basic .NET programming language. Students will learn how to design, code, and debug programs common to the business environment. Some of the topics include: Form Design, Sub Procedures, Functions, Object-Oriented Programming, Arrays, and Accessing Database Files. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 218 C  VISUAL C# PROGRAMMING  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
CSU  
Prerequisite: CIS 211 C. This course introduces students to the Visual C# .NET programming language. Students will learn how to design, code, and debug programs common to the business environment. Some of the topics include: Classes and Objects, Methods, Arrays, and Form Development. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 219 C  ADVANCED VISUAL BASIC  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
CSU  
Prerequisite: CIS 217 C. This is an advanced course in Visual Basic .NET programming. Special emphasis will be placed on the application of the Visual Basic language to solve business problems, including requirements definition, design, construction, testing, and documenting. Multiple forms, objects, controls, Object Linking and Embedding (OLE), and the use of the data control object to interface with databases external to Visual Basic. NET will be covered. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 220 C  WEB PAGE PROGRAMMING  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
Pass/No Pass/Letter Grade Option  
CSU  
Students will learn how to create Web pages that include Cascading Style Sheets (CSS), how to create JavaScript programs inside HTML (Hyper Text Markup Language) documents, how to use JavaScript programs to enhance Web pages, and how to use elements of Dynamic HTML. Emphasis is placed on multiple page layers, scripting, and managing large-scale Web sites. Using these tools and techniques, students will learn to create dynamic effects based on users interaction, simple animation, drop-down menu, and other sophisticated and useful design effects. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 221 C  WEB NETWORKING TECHNOLOGY  
3 Units  
Three hours lecture and  
One hour laboratory per week.  
Pass/No Pass/Letter Grade Option  
CSU  
This course introduces students to the new concept in the Web technology called the Collaborative Internet. The term refers to the use of the Internet technology to enhance information sharing, interactive and collaborative Web sites, social networking, publishing and posting information on the Web, and active participation among Web users. Emphasis is placed on the various applications of this emerging Web technology such as Podcasts, Blogs, Wikis, Mashups, RSS (Really Simple Syndication) Feeds, Flickr, collaborative favorites, and social networks in both theoretical and practical frameworks. In addition, the application of AJAX Web programming language will be discussed. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 222 C  WEB SERVER MANAGEMENT  
3 Units  
Two hours lecture and  
Two hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
CSU  
This course presents advanced topics in Web site development and maintenance. Emphasis is placed on web programming, client/server scripting, and Web server configuration. Other topics include how to design effective user interfaces, how to process user data with forms, how to configure a Web server, and how to write a script in PERL (Practical Extraction and Report Language), as well as in CGI (Common Gateway Interface). Students should have a working knowledge of Hyper Text Mark-up Language (HTML) and JavaScript. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 223 C  VISUAL C++ PROGRAMMING  
3 Units  
Three hours lecture and  
Two hours laboratory TBA per week.  
UC/CSU  
Prerequisite: CIS 211 C. This course introduces students to the Visual C++ .NET programming language. Students will learn how to design, code, and debug programs common to the business environment. Some of the topics include: Control Structures, Functions, Classes and Objects, Arrays, and File Processing. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 225 C  WEB PROGRAMMING WITH ASP  
3 Units  
Three hours lecture and  
One hour laboratory per week.  
Pass/No Pass/Letter Grade Option  
CSU  
This course prepares students to use ASP (Active Server Pages) as a web programming language to create dynamic, interactive, and data-driven web applications. Students will learn how to develop web applications that interact with viewers as well as with other computer applications. Emphasis is placed on reading and writing data to a file on the web server, developing interactive web pages, creating web applications that incorporate databases, server-side programming, optimizing the performance of web applications, developing user controls, working with ASP web services, debugging web applications, and creating mobile web applications. $3.00 Materials Fee – PAYABLE AT REGISTRATION.
CIS 226 C  JAVA PROGRAMMING
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
UC/CSU
Prerequisite: CIS 211 C. This course introduces students to the Java programming language. Students will learn the language syntax, how to design and debug programs, and how to use Java programs with HTML pages. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 227 C  JAVASCRIPT PROGRAMMING
2 Units
Two hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: CIS 179 C. This course teaches the students to use the JavaScript programming languages to enhance Web pages. Emphasis is placed on creating HTML pages that include JavaScript programs. The student will learn the basic syntax of the JavaScript language, how to create JavaScript programs inside HTML documents, and how to use JavaScript programs to enhance Web pages. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 229 C  INTRODUCTION TO XML PROGRAMMING
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This is a class in Web documents management. The course is ideal for students interested in next-generation Web publishing who want to gain a working knowledge of XML and use it to build a wide range of dynamic effects and compelling Web applications from formatting and managing documents to E-commerce and searching and managing data. In this class, students will master the fundamentals of XML, including XSL (Extensible Stylesheet Language), DTDs (Document Type Definitions), CSS (Cascading Style Sheets) and XML schemas. This course is designed for those with experience in creating Web pages and who have some knowledge of style sheets. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 230 C  CISCO NETWORKING 1
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU
This course focuses on network terminology and protocols, Local Area Networks (LANs), Wide Area Networks (WANs), Open System Interconnection (OSI) model, cabling, cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing, and network standards. This course is offered through Cisco Local Academy and upon successful course completion students will receive a certificate from Cisco. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 231 C  CISCO NETWORKING 2
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU
Prerequisite: CIS 230 C. This course introduces students to router fundamentals, router setup and configuration, network management, routing and routed protocols, and network troubleshooting. Topics include: managing Cisco IOS software, Distance Vector Routing Protocols, TCP/IP suite error and control messages, basic router troubleshooting, and access control lists. This course is offered through Cisco Local Academy and upon successful course completion students will receive a certificate from Cisco. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 232 C  CISCO NETWORKING 3
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU
Prerequisite: CIS 231 C. This course focuses on advanced IP addressing techniques; Variable Length Subnet Masking (VLSM), intermediate routing protocols (RIP v2, single-area OSPF, EIGRP), command-line interface configuration of switches, Ethernet switching, Virtual LANs (VLANs), Spanning Tree Protocol (STP) and VLAN Trunking Protocol (VTP). This course is offered through Cisco Local Academy and upon successful course completion students will receive a certificate from Cisco. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 233 C  CISCO NETWORKING 4
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU
Prerequisite: CIS 232 C. This course focuses on advanced IP addressing techniques; Network Address Translation (NAT), Port Address Translation (PAT), and DHCP; WAN technology and terminology; PPP, ISDN, DDR, Frame Relay, network management, and introduction to optical networking. This course is offered through Cisco Local Academy and upon successful course completion students will receive a certificate from Cisco. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 234 C  ADVANCED JAVA PROGRAMMING
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
UC/CSU
Prerequisite: CIS 226 C. This course covers advanced topics in Java programming. Topics include graphics, animation, GUI components, exception handling, files and streams, and data structures. $3.00 Materials Fee – PAYABLE AT REGISTRATION.
CIS 236 C  INTRODUCTION TO ORACLE: SQL & PL/SQL
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU
This course offers students an extensive introduction to data server technology. The class covers the concepts of both relational and object relational databases and the powerful SQL (Structured Query Language) and PL/SQL (Programming Language/Structured Query Language) programming languages. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. In addition, students learn to create PL/SQL blocks of application code that can be shared by multiple forms, reports, and data management applications. Demonstrations and hands-on practice reinforce the fundamental concepts. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 237 C  ORACLE: ARCHITECTURE AND ADMIN
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU
Prerequisite: CIS 236 C. This course is designed to give the students a firm foundation in basic administrative tasks and provide the necessary knowledge and skills to set up, maintain, and troubleshoot an Oracle database. The student learns to use an administration tool to start up and shut down a database, create a database, manage file and database storage, and manage users and their privileges. In addition, the student learns to organize the database and to move data into and between databases, under different environments. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 238 C  ORACLE: BACKUP AND RECOVERY
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU
Prerequisite: CIS 237 C. This course introduces the students to the critical task of planning and implementing database backup and recovery strategies. The class addresses backup and recovery techniques and examines various backup, failure, restore, and recovery scenarios. In the hands-on exercises, students examine backup methodologies based on business requirements in a mission critical enterprise. Students utilize multiple strategies and Oracle tools such as Recovery Manager to perform backup, restore, and recovery operations. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 239 C  CCNA BOOTCAMP
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
CSU
The Cisco networking courses will be reviewed to prepare for the CCNA exam. Topics include IP addressing and subnetting, router and switch configurations, LAN and WAN protocols, and sample exam questions. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 240 C  CISCO WIRELESS NETWORKING
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course focuses on the design, installation, configuration, operation, and troubleshooting of enterprise-level Wireless Local Area Networks (WLANs). A comprehensive overview of wireless technologies, devices, security, design, and best practices with a particular emphasis on real world applications and skills is covered. This course is offered through Cisco Local Academy and upon successful course completion students will receive a certificate from Cisco. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 241 C  JAVA GAME PROGRAMMING
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
CSU
Prerequisite: CIS 132 C. This course covers game programming for Java developers. It leads students to create desktop and Internet computer games using the latest Java Programming language techniques. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 242 C  DATABASE-ADVANCED MS ACCESS
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
CSU
Prerequisite: CIS 142 C. This course teaches advanced topics in Microsoft Access. Students will learn how to design and implement complex databases; how to use Structured Query Language; and how to create complex queries, complex forms, and complex reports. Other topics include how to write Microsoft Access programs using Visual Basic and how to use Access with other applications. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 243 C  SPREADSHEET-ADVANCED MS EXCEL
3 Units
Two hours laboratory TBA per week.
CSU
Prerequisite: CIS 132 C. This course is designed to introduce students to the use of advanced spreadsheet tools in the solution of problems. Students will use Visual Basic to develop Excel applications. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 244 C  JAVA GAME PROGRAMMING
3 Units
Three hours lecture and
One hour laboratory per week.
CSU
This course covers game programming for Java developers. It leads students to create desktop and Internet computer games using the latest Java Programming language techniques. $3.00 Materials Fee – PAYABLE AT REGISTRATION.
CIS 245 C  PERL PROGRAMMING
3 Units
Three hours lecture and
One hour laboratory TBA per week.
Pass/No Pass/Letter Grade Option
CSU
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. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 246 C  PHP PROGRAMMING
3 Units
Three hours lecture and
One hour laboratory TBA per week.
Pass/No Pass/Letter Grade Option
CSU
This hands-on course introduces students to the PHP programming language. Topics include basic PHP programming skills, and integration with HTML. It also explores advanced modules including accessing the MySQL database. Students will learn to develop dynamic web content and data-driven web sites using PHP. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 247 C  PYTHON PROGRAMMING
3 Units
Three hours lecture and
One hour laboratory TBA per week.
Pass/No Pass/Letter Grade Option
CSU
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. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 248 C  VOICE OVER IP
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course focuses on the design, configuration, troubleshooting and operation of IP (Internet Protocol) telephony technology to exchange voice, fax and other forms of information. A comprehensive overview of packet telephony technologies including signaling, call control and voice quality with a particular emphasis on real world applications and skills is covered. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 250 C  WORD PROCESSING
1 - 4 Units (Variable Unit Class) (May be taken for a cumulative total of 4 units)
(Open Entry-Open Exit)
One to four hours lecture and
Three to twelve hours laboratory TBA per week.
Pass/No Pass/Letter Grade Option
CSU
This variable unit, open entry/open exit course with flexible hours consists of basic and advanced text editing performed using Microsoft Word. Unit credit may range from 1 to 4 units in any given semester. Units may be increased or decreased no later than the withdrawal deadline of the course. Only upon successful completion of the first unit of instruction will the student be eligible for the second unit of credit for the semester. Knowledge of keyboarding is recommended. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 251 C  ADVANCED WORD PROCESSING
1 - 4 Units (Variable Unit Class) (May be taken for a cumulative total of 4 units)
(Open Entry-Open Exit)
One to four hours lecture and
Three to twelve hours laboratory TBA per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: Two units of CIS 250 C. This variable unit, open entry/open exit course with flexible hours is designed as a continuation of CIS 250 C. Advanced applications include, but are not limited to, desktop publishing, macros, margins, and record processing. Unit credit may range from 1 to 4 units in any given semester. Units may be increased or decreased no later than the withdrawal deadline of the course. Only upon successful completion of the first unit of instruction will the student be eligible for the second unit of credit for the semester. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 252 C  JAVA WEB APPLICATIONS
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
CSU
Prerequisite: CIS 226 C. This course covers topics in Java Web Applications. Topics include multithreading, networking, JDBC, Servlet, JSP, JSF, and web services. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 253 C  ORACLE PL/SQL PROGRAMMING
3 Units
Three hours lecture and
One hour laboratory per week.
CSU
This course introduces students to the essential concepts and techniques needed to build web application on Oracle Application Server. Students will learn to create PL/SQL applications that access Oracle database but deliver outputs in HTML format. $3.00 Materials Fee – PAYABLE AT REGISTRATION.
CIS 258 C  CCNA SECURITY
3 Units
Three hours lecture and
Three hours laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
CCNA Security equips students with the knowledge and skills needed to prepare for entry-level security specialist careers. Topics covered include: implementing AAA on network devices, implementing Cisco IOS firewall and IPS feature sets, implementing site-to-site IPSec VPNs, and administering effective security policies. This course is offered through Cisco Local Academy and upon successful course completion students will receive a certificate from Cisco. $3.00 Materials Fee – Payable at Registration.

CIS 260 C  GAME CONCEPTS DEVELOPMENT
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
Pass/No Pass/Letter Grade Option
CSU
In this course students will study the technology, structure, hardware, software, graphics and art, sound effects, simulation engines, and job market trends involved in the construction of computer games. Students will learn how to plan and develop outlines for their own games. The course will emphasize hands-on exercises in creation of games using game generator software. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 261 C  GAME PROGRAMMING
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course introduces students to basic game programming concepts and program design process. Topics include game terminology, genre analysis, platform comparisons, and content creation. Students will also explore major game programming languages. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 262 C  NEW TECHNOLOGY
2 Units
Two hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This hands-on class is designed to teach students to acquire the necessary technical skills in the use of the latest technology. Emphasis is placed on the current and future trends of information technology in today’s computer Industry. The topics discussed will include, but are not limited to, the Internet technology and applications, networking and wireless technology, Web technology, mobile and hand-held computing, storage technology, robotics applications, and artificial intelligence. $3.00 materials fee is payable at registration. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 263 C  MOBILE GAME PROGRAMMING
3 Units
Three hours lecture and
Two hours laboratory TBA per week.
Pass/No Pass/Letter Grade Option
CSU
This course offers an overview of the gaming products for platforms involving anything handheld, including cell phones, PDAs and Pocket PCs. Students will learn to develop mobile games for the portable platforms of their choices. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 264 C  WINDOWS GAME PROGRAMMING
3 Units
Three hours lecture and
One hour laboratory TBA per week.
Pass/No Pass/Letter Grade Option
CSU
This course leads students to develop skills and techniques relevant to the programming of computer games for Windows. The course will focus primarily on programming aspects. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 265 C  3D GAME PROGRAMMING
3 Units
Three hours lecture and
One hour laboratory TBA per week.
Pass/No Pass/Letter Grade Option
CSU
This course uses open source tools to introduce programming skills and techniques for creating interactive 3D games. The course will focus primarily on programming aspects. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 266 C  GAME PROGRAMMING IN FLASH
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course teaches students how to use Macromedia Flash to create games. Topics include a review of basic Flash concepts, basic ActionScript programming, creating Flash 3D effects, using physics and motion in a game, including sound in a game, and creating the overall game design structure. The course includes three hours lecture and one laboratory per week. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 274 C  PROJECT MGMT FUNDAMENTALS
3 Units
Three hours lecture and
Two hours laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course teaches the basics of project management and includes preparation for the Project Management Professional certification exam. Topics include integration, scope, time, cost, quality, human resource management, communications, risk, and procurement management. $3.00 Materials Fee – PAYABLE AT REGISTRATION.
CIS 276 C  COMPUTER FORENSICS I
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course introduces basic techniques and methods used for collecting and preserving digital evidence for computer forensic process. This course emphasizes on gathering digital evidences from a computer system. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 277 C  COMPUTER FORENSICS II
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course equips students with professional knowledge and techniques to investigate, preserve, process, report, and present digital evidence. This course delivers technical and management knowledge of computer forensics to students. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 278 C  CYBER CRIME
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course will introduce the student to concepts and actions involved with cybercrime. The emphasis of the course will be placed on the student gaining an understanding of the types, the elements, and the corresponding forensic evidence that exists from cybercrime. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 279 C  COMP FORENSICS LEGAL ASPECTS
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course will examine the civil and criminal aspects of computer forensics. Students will be introduced to case law and will learn appropriate stips, procedures, and techniques to comply with law when conducting forensic examinations. Also, testimony concepts by the forensic examiner will be discussed. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 280 C  ANALYSIS OF DIGITAL MEDIA
3 Units
Three hours lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
This course will provide the student with the concepts and skills to complete examinations on alternative digital media. This includes an understanding of the various file systems, acquisition procedures, recovery methods, and reporting on findings. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 281 C  COMPUTER FORENSICS CAPSTONE
3 Units
Three hours lecture and
One hour laboratory per week.
CSU
Prerequisite: CIS 280 C with a minimum grade of “C”. This course will complete the computer forensics certificate program with a thorough testing process of the student’s knowledge of computer forensics. Through a series of examinations, students will demonstrate their knowledge of appropriate computer forensic procedures/protocol, acquisition techniques, file systems, analysis of files, alternative media, Internet history/email analysis, log analysis, reporting, incorporating all knowledge gained through the courses. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CIS 295 C  CIS INTERNSHIP
1-4 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry/Open Exit)
One hour lecture and
Three hours 20 minutes to Thirteen hours and 20 minutes laboratory per week.
Pass/No Pass/Letter grade Option
CSU
This course is designed to give the student credit for work experience at a related occupational worksite, while being concurrently enrolled in a vocational major. For each unit of credit, a minimum of 75 paid or 60 unpaid worksite internship hours is required. The internship allows students to apply knowledge gained in college courses to an actual work setting, sample career choices and improve job-readiness skills. Supplemental reading and course assignments required.

CIS 298 C  COMPUTER INFO SYSTEMS SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This course will utilize a lecture and/or lab approach for students enrolled in the Computer Information Systems Program to increase their knowledge in applied areas. Topics will be offered to increase the student’s knowledge of the computer information systems profession by updating content on recent changes and requirements and by preparing for new trends in Computer Information Systems. Fee May be Required – PAYABLE AT REGISTRATION.

CIS 299 C  CIS INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
One-half to two hours lecture per week.
CSU
Prerequisite: Approved Independent Study Learning Contract.
This course is designed for students who wish to gain further experience, knowledge, or expertise beyond their current offerings in their area of study. The number of class hours or activities per week will be determined by the scope of the topic. The instructor will devise learning strategies to be followed by the student. Students must obtain permission from the program coordinator to be enrolled in this class.
Computer Science

Division of Science/Engineering/Mathematics

Division Dean – Richard Fee

Counselors
Deidre Porter

COMPUTER SCIENCE TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Computer Science (CSCI)

CSCI 123 C INTRODUCTION TO PROG CONCEPTS IN C++
4 Units
Four hours lecture and
One hour laboratory TBA per week.
UC/CSU
Prerequisite: MATH 141 C and MATH 142 C with minimum grades of “C”. This course is an introduction to the basic principles of programming using C++ as the development tool. Topics include the structure and design of algorithms, input/output, branching structures, functions, recursion, built-in data types, arrays, structures, files, pointers and elementary operations on linked structures. The object-oriented programming paradigm will be introduced. Topics include encapsulation, polymorphism, libraries, streams, inheritance and abstract data types. Students will design algorithms, write external and internal documentation and design and write source code in C++.

CSCI 133 C DATA STRUCTURES IN C++
4 Units
Four hours lecture and
One hour laboratory TBA per week.
UC/CSU
Prerequisite: CSCI 123 C with a grade of “C” or better. This is a course in algorithm design and data structures implemented using C++. Data structures examined are arrays, linked lists, stacks, queues, trees, tables, and graphs. Algorithm topics include hashing, sorting heaps, searches and algorithm efficiency using Big-O notation. Students will create and modify class libraries to implement these structures.

CSCI 205 C FORTRAN PROGRAMMING
3 Units
Three hours lecture and
One hour laboratory TBA per week.
UC/CSU, CSU GE
Prerequisite: MATH 142 C, or MATH 130 C, or three and one-half years of high school college preparatory mathematics. This is a course for science, engineering, and mathematics students to acquaint them with the use of digital computers and to enable them to write programs in the FORTRAN language. Elementary numerical methods, algorithms, flowcharting, and program documentation are included.

CSCI 298 C COMPUTER SCIENCE SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion approach to special topics involving computer science. It may be a problem session related to a particular course in the curriculum, or a study of topics not ordinarily covered within the curriculum. Consult the class schedule to verify unit credit for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

CSCI 299 C COMPUTER SCI INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Six hours assigned independent study or research per week for maximum credit.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. This course is for students who have demonstrated interest and capability for increased knowledge of computer science topics not ordinarily covered in the curriculum. Students will participate in independent study or research on assigned projects under faculty supervision.

Continuing Education Program

The Division of Health Science offers courses through extended day sessions at Cypress College and through the Adult Continuing Education Department of the North Orange County Community College District. Continuing education courses are designed for programs within the Health Science Division.

General inquiries and application to programs may be obtained from the Health Science Counseling Office at 714-484-7270. The classes offered are approved by the California Board of Regional Nursing (Provider Number 00110), for the number of hours the class meets. Request list of approved classes from the Health Science Division.
Counseling and Student Development

Division of Counseling

Division Dean – Paul R. de Dios
Director, DSP&S – Kimberly K. Bartlett
Manager, International Student Program – Yongmi Han
Manager, Matriculation – Kristine Nelson
Articulation Officer – Stacey Howard

Faculty – Counselors
Dana Bedard       dbedard@CypressCollege.edu
Kelly Carter      kcarte@CypressCollege.edu
Penny Gabourie    pgabourie@CypressCollege.edu
Robert Grantham   rgrantham@CypressCollege.edu
Jane Jeppson      jjjeppson@CypressCollege.edu
Renay Laguana-Ferinac rlaguana@CypressCollege.edu
Velia Lawson      vlawson@CypressCollege.edu
Deborah Michelle  dmichelle@CypressCollege.edu
Therese Mosqueda-Ponce tmosqueen@CypressCollege.edu
Daniel Pelletier  dpell@CypressCollege.edu
Deidre Porter     dporter@CypressCollege.edu
Renee Ssensalo    rssensalo@CypressCollege.edu
Denise Vo         dvo@CypressCollege.edu

During the summer months, counselors can be reached by e-mail at onlinecounselor@CypressCollege.edu.

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

Counseling and Student Development (COUN)

COUN 040 C  COLLEGE READINESS
½ Unit
One hour lecture per week.
Pass/No Pass Only
NON-DEGREE CREDIT
This course is designed to prepare students for their first college semester by satisfying the California community colleges’ matriculation requirements of assessment, orientation, and counseling/advising.

COUN 060 C  ACADEMIC SUCCESS AND COLLEGE SURVIVAL
1 Unit
One hour lecture per week.
Pass/No Pass Only
This course is designed to help students who are experiencing difficulties in succeeding in college. Students will learn skills such as time management, decision-making, and study skills which will enable them to identify and overcome educational difficulties.

COUN 071 C  CAREER PREP & LIFE MANAGEMENT
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
This course is designed for students needing special assistance in career planning, job search techniques, personal adjustment and life management. Emphasis will be placed on discovering individual areas of strength which will enable students to focus on possibilities for success.

COUN 072 C  LEARNING ASSESSMENT
½ Unit
(Open Entry/Open Exit)
One-half hour lecture per week.
Pass/No Pass
NON-DEGREE CREDIT
Prerequisite: Learning Disability Specialist Approval. This course is an intensive learning assessment for students with learning difficulties which have impeded academic performance. Emphasis is on assessing specific academic and learning modality strengths and difficulties.

COUN 073 C  COMPUTER ACCESS I
3 Units (May be taken for credit 2 times)
Two hours lecture and
Three hours laboratory per week.
Pass/No Pass/Letter Grade Option
This course is designed for students with verified disabilities. This course provides training in the use of assistive technology which enhances the ability of students with disabilities to access and use personal computers. The course will cover word processing and an introduction to the Internet.

COUN 074 C  COMPUTER ACCESS II
3 Units (May be taken for credit 2 times)
Two hours lecture and
Three hours laboratory per week.
Pass/No Pass/Letter Grade Option
Prerequisite: COUN 073 C. This course is designed for, but not limited to, students with verified disabilities. This course provides training in intermediate computer concepts using prescribed assistive technology. The course will also cover intermediate to advanced Internet skills. Students will enhance computer access skills through completion of assigned projects in a variety of formats (word processing, spreadsheets, presentations, and publications).

COUN 100 C  COLLEGE ORIENTATION
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: Entry in Special Assistance Program - Disabled Student Programs and Services. This course is designed for students with Learning Disabilities and will introduce college support services, provide experimental activity in the use of these support services, provide vocational and educational planning (SEC), give an orientation into college life and raise student awareness of the importance of self-motivation and perseverance in the pursuit of personal goals. Students will learn campus policies and procedures, strengthen study skills and develop responsible academic and personal attitudes for student success.

Counseling and Student Development / 141
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
<th>Fee</th>
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<tbody>
<tr>
<td>COUN 105 C</td>
<td>STRESS MANAGEMENT</td>
<td>1 Unit</td>
<td>This course is designed to increase the student’s awareness of the effects of stress on academic preformance and daily life. Emphasis will be placed on understanding effective and ineffective responses to stress and on planning a personal stress management plan. Students will explore and practice a variety of practical stress management techniques. $3.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
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<tr>
<td>COUN 110 C</td>
<td>TEACHING AS A CAREER</td>
<td>3 Units</td>
<td>Two hours lecture per week. This course is designed to provide skills in specific peer advisement situations, observations, and communications. Training in active listening, group processes, and role-playing are emphasized. May be taken for credit 2 times.</td>
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<tr>
<td>COUN 110 HC</td>
<td>HONORS LEADERSHIP</td>
<td>3 Units</td>
<td>Three hours lecture per week. This course is designed for Honors students and requires leadership participation in a campus or community organization. It includes the study and practical application of group and individual leadership techniques. It is designed to improve awareness of group dynamics, listening skills, personal values, decision-making, problem solving and organizational development. Duplicate credit not granted for COUN 135C.</td>
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<tr>
<td>COUN 140 C</td>
<td>EDUCATIONAL PLANNING</td>
<td>½ Unit</td>
<td>One-half hour lecture per week. This course is required the first semester of attendance as part of the matriculation process for all new students who are taking more than two classes or who plan to earn the Associate Degree, obtain a Certificate, or transfer to a four year college. The course includes orientation to college life and responsibilities, college requirements and regulations, career guidance, and development of a personal educational plan. $6.00 Materials Fee – PAYABLE AT REGISTRATION. Duplicate credit not granted for COUN 140HC.</td>
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<tr>
<td>COUN 141 C</td>
<td>CAREER EXPLORATION</td>
<td>1 Unit</td>
<td>One hour lecture per week. A one-time career exploration course that enables students to examine and assess their strengths, values, decision-making skills and potential in order to plan realistic educational goals.</td>
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<tr>
<td>COUN 142 C</td>
<td>COUNSELING AND STUDENT DEVELOPMENT</td>
<td>4 Units</td>
<td>This course includes orientation to college life and responsibilities, college requirements and regulations, career guidance, and development of a personal educational plan. $6.00 Materials Fee – PAYABLE AT REGISTRATION. Duplicate credit not granted for COUN 140HC.</td>
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**Cypress College 2010-2011**
COUN 150 C  ACADEMIC AND LIFE SUCCESS
3 Units
Three hours lecture per week.
CSU, CSU GE
A complete class in career/life planning, including introduction to the tools for dealing with change; an analysis of desired lifestyles; self-assessment; overcoming obstacles, and analysis of work, its organizations, and where you want to work; decision-making, people, environments, career-researching and job-finding, resumes, interviewing, and goal setting. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

COUN 151 C  CAREER AND LIFE PLANNING
3 Units
Three hours lecture per week and
Three hours (minimum) laboratory as assigned per semester.
CSU, CSU GE
A complete class in career/life planning, including introduction to the tools for dealing with change; an analysis of desired lifestyles; self-assessment; overcoming obstacles, and analysis of work, its organizations, and where you want to work; decision-making, people, environments, career-researching and job-finding, resumes, interviewing, and goal setting. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

COUN 152 C  DIVERSITY IN THE WORLD OF WORK
3 Units
Three hours lecture per week.
CSU, CUL DIV
This course will explore the past, present and future working conditions and challenges of men, women, and children, various ethnic and cultural groups, people of different socioeconomic status, and people with disabilities and exceptionalities as factors which relate to employment opportunities and conditions.

COUN 150 C  ACADEMIC AND LIFE SUCCESS
3 Units
Three hours lecture per week.
CSU, CSU GE
A complete class in career/life planning, including introduction to the tools for dealing with change; an analysis of desired lifestyles; self-assessment; overcoming obstacles, and analysis of work, its organizations, and where you want to work; decision-making, people, environments, career-researching and job-finding, resumes, interviewing, and goal setting. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

COUN 151 C  CAREER AND LIFE PLANNING
3 Units
Three hours lecture per week and
Three hours (minimum) laboratory as assigned per semester.
CSU, CSU GE
A complete class in career/life planning, including introduction to the tools for dealing with change; an analysis of desired lifestyles; self-assessment; overcoming obstacles, and analysis of work, its organizations, and where you want to work; decision-making, people, environments, career-researching and job-finding, resumes, interviewing, and goal setting. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

COUN 152 C  DIVERSITY IN THE WORLD OF WORK
3 Units
Three hours lecture per week.
CSU, CUL DIV
This course will explore the past, present and future working conditions and challenges of men, women, and children, various ethnic and cultural groups, people of different socioeconomic status, and people with disabilities and exceptionalities as factors which relate to employment opportunities and conditions.

COUN 156 C  SELF-CONCEPT
1 Unit
One hour lecture per week.
Pass/No Pass/Letter Grade Option
This course introduces the student to the self-concept theory and assists students in acquiring the psychological characteristics necessary to meet daily challenges. Emphasis is on the enhancement of academic performance and success as a result of developing a stronger self-concept.

COUN 160 C  COLLEGE/UNIVERSITY TRANSITION
1 Unit
One hour lecture per week.
Pass/No Pass/Letter Grade Option
This course is designed for student and the parents of students who plan 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 160 HC.

COUN 160HC  HONORS UNIVERSITY TRANSITION
1 Unit
One hour lecture per week.
Pass/No Pass/Letter Grade Option
CSU
COUN 160HC is required during the first semester of attendance as part of the matriculation process for Honors Program students. The course 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, special programs, priority filing deadlines, developing an autobiographical essay and personal portfolio. Emphasis will be placed on researching and evaluating transfer options. Duplicate credit not granted for COUN 160 C.

COUN 295 C  VOCATIONAL INTERNSHIP
1 - 4 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry/Open Exit)
One hour lecture and
Seventy-five minimum hours for paid internship, 60 hours minimum for unpaid internships for each unit of credit.
Pass/No Pass/Letter Grade Option
CSU
Corequisite: Concurrent enrollment in vocational major with a total of 7 units being taken, including internship and learning contract. This course is designed to give the student credit for work experience at a related occupational worksite, while being concurrently enrolled in a vocational major. For each unit of credit, a minimum of 18 hours of online and/or on-campus coursework of career and internship readiness material will be required of the student (per mutual agreement with the internship coordinator and faculty of the vocational major) and a minimum of 75 total hours of worksite hours for paid internships (minimum of 60 hours for unpaid internships).

COUN 298 C  COUNSELING AND GUIDANCE SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. Various classes may be offered which are designed to meet the interests and needs of the students and faculty. Fees may be required – PAYABLE AT REGISTRATION.

COUN 299 C  COUNSELING - INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry/Open Exit)
Hours vary according to units assigned.
Pass/No Pass
CSU
Prerequisite: Approved Independent Study Learning Contract. This course is designed for students who wish to explore in-depth various guidance-related topics. Students develop an Independent Study Learning Contract with the instructor that details the objectives and course content and scope to be completed by the student. Consult class schedule to verify credit for a particular term.
ASSOCIATE IN SCIENCE DEGREE
COURT REPORTING
Program Code: 1S07819
Preparation for State Certificate Examination
The courses listed meet the requirements of the Court Reporter’s Board and for an Associate Degree at Cypress College. This program was accredited by the CR Board on March 7, 1978. Academic courses completed in Adult Education or a private Court Reporting School are not transferable.

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) with an overall GPA of 2.0. At least 50 percent 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.

STUDENTS MUST FURNISH THEIR OWN MACHINE AND PAPER

Required Courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER 1</td>
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<tr>
<td>CTRP 040 C</td>
<td>Beg. Machine Shorthand Theory</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 041 C</td>
<td>Court Reporting Theory Review</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 071 C</td>
<td>Legal Terminology and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>MGT 055 C</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>P067 C</td>
<td>Basic Vocabulary Development</td>
<td>2</td>
</tr>
<tr>
<td>COUN 140 C</td>
<td>Educational Planning</td>
<td>1/2</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>141/2</td>
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<tr>
<td>SEMESTER 2</td>
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<tr>
<td>CTRP 042 C, 043 C</td>
<td>Machine Shorthand Speed Bldg 1&amp;2</td>
<td>4</td>
</tr>
<tr>
<td>CTRP 051 C</td>
<td>Court/Conf. Reporting: Legal</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 073AC</td>
<td>Spelling for Modern Business</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 073BC</td>
<td>Punctuation-Court Reporting</td>
<td>1</td>
</tr>
<tr>
<td>HS 145 C</td>
<td>Survey of Medical Terminology</td>
<td>3</td>
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<tr>
<td>*ENGL 106 C</td>
<td>Critical Thinking</td>
<td>3</td>
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<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENGL 106 C</td>
<td>Critical Thinking</td>
<td>(3)</td>
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<tr>
<td>MGT 041 C</td>
<td>Survey of Business Law</td>
<td>3</td>
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<tr>
<td>or</td>
<td>MGT 240 C</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Legal Environment of Business</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>MGT 241 C</td>
<td>(3)</td>
</tr>
<tr>
<td>or</td>
<td>Legal Aspects-Business Trans.</td>
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<tr>
<td>or</td>
<td>MGT 141 C</td>
<td>(3)</td>
</tr>
<tr>
<td>or</td>
<td>Personal Law</td>
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<tr>
<td>*SOSC</td>
<td>Social Science Elective</td>
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<tr>
<td>SUMMER SESSION</td>
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<tr>
<td>CTRP 044 C, 045 C</td>
<td>Machine Shorthand Speed Bldg 3&amp;4</td>
<td>4</td>
</tr>
<tr>
<td>SEMESTER 3</td>
<td></td>
<td></td>
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<tr>
<td>CTRP 057 C</td>
<td>Mach. Shorthand Challenge - 160</td>
<td>2</td>
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<tr>
<td>CTRP 046 C</td>
<td>Machine Shorthand Speed Bldg 5</td>
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<tr>
<td>CTRP 052 C</td>
<td>Court/Conf. Rptg: Medical</td>
<td>3</td>
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<tr>
<td>MGT 242 C</td>
<td>American Judicial System</td>
<td>4</td>
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<tr>
<td>CTRP 056 C</td>
<td>Machine Transcription-Medical</td>
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<tr>
<td>*Humanities Elective</td>
<td>3</td>
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<tr>
<td>*Physical Education Elective</td>
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<tr>
<td>CTRP 054 C</td>
<td>Two/Four Voice Testimony</td>
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<td>CTRP 082 C</td>
<td>Comp. Aided Trans: ProCAT</td>
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<tr>
<td>or</td>
<td>CTRP 083 C</td>
<td>(1)</td>
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<tr>
<td>or</td>
<td>Comp. Aided Trans: Stenograph</td>
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<tr>
<td>or</td>
<td>CTRP 084 C</td>
<td>(1)</td>
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</tr>
</tbody>
</table>

Court Reporting
Division of Business and Computer Information Systems

Division Dean – Dave Wassenaar

Faculty
Carolee Freer

Counselors
Robert Grantham

PROGRAM LEARNING OUTCOMES (PLOs)
Court Reporting
A student who completes the Court Reporting field of study will be able to:
1. Students will be able to transcribe documents at a professional level.
2. Students will have the ability to apply the rules of grammar, spelling, punctuation, and capitalization to sentences, paragraphs, testimony, and jury charge through systematic series of programmed (takes) testing and other projects.
3. Students will be able to demonstrate an understanding and application of California and United States criminal and civil law, along with a basic knowledge of related areas of law and legal terminology.
4. Students will be able to demonstrate an understanding and application of anatomy, physiology, and/or medical terminology.
5. Students will be able to assume the role of the real-time reporter through simulated trials and depositions to perform various functions.
6. Students will be able to produce a complete and accurate transcript of at least ten pages from steno notes, using computer-aided transcription.
7. Students will be able to fulfill the state required internship hours and submit a written narration of their experiences, either in transcript format or in report format. Students will submit a timesheet signed by the supervising reporter in the field verifying hours completed.
8. Students will be able to understand and apply knowledge of basic vocabulary to a variety of reporting situations.
9. Students will be able to understand and follow the California codes as they apply to reporting situations.
10. Students will be able to demonstrate knowledge of court and deposition procedures, along with an understanding of court structure, both state and Federal.
11. Students will be able to prepare an 18,000 word steno dictionary using computer software with applications for the completion of transcripts and other documents.
12. Students will be familiar with the California Court Reporters Code of Ethics and the National Court Reporters Association Code of Ethics and be able to apply these standards, rules, and regulations in the preparation of documents and in reporting situations.
## Court Reporting / 145

### SEMESTER 2
- **CTRP 042 C**, **043 C** Machine Shorthand Speed Bldg 1&2 4
- **CTRP 051 C** Court/Conf. Reporting: Legal 3
- **HS 145 C** Survey of Medical Terminology 3
- ***ENGL 106 C** Critical Thinking 3
- **MGT 041 C** Survey of Business Law 3
  - or **MGT 240 C** Legal Environment of Business 3
  - or **MGT 241 C** Legal Aspects-Business Trans. 3
  - or **MGT 141 C** Personal Law 3
- **CTRP 073AC** Spelling for Modern Business 1
- **CTRP 073BC** Punctuation-Court Reporting 1
- **Total Units Required** 22%

### SEMESTER 3
- **CTRP 044 C**, **045 C** Machine Shorthand Speed Bldg 3&4 4
- **CTRP 057 C**, **058 C** Mach. Shorthand Challenge-160&180 4
- **CTRP 046 C** Machine Shorthand Speed Bldg 5 2
- **CTRP 052 C** Court/Conf. Rptg: Medical 3
- **CTRP 072 C** Legal Procedures 4
- **CTRP 066 C** Machine Transcription-Medical 2
- **CTRP 054 C**, **056 C** Court/Conf. Rptg: Jury Charge 1&2 6
- **MGT 242 C** American Judicial System 4
- **CTRP 068 C** Adv. Vocabulary Development 1 1
  - or **CTRP 083 C** Comp. Aided Trans: Stenograph 1
  - or **CTRP 084 C** Comp. Aided Trans: Eclipse 1
  - or **CTRP 085 C** Comp. Aided Trans: Stenocat 1
  - or **MGT 143 C** Introduction to Legal Research 1
- **Total Units Required** 19

### SUMMER SESSION
- **CTRP 048 C** Machine Shorthand Speed Bldg 7 2
- **CTRP 060 C** Mach. Shorthand Challenge-220 2
- **Total Units Required** 4

### SEMESTER 4
- **CTRP 047 C** Machine Shorthand Speed Bldg 6 2
- **CTRP 053 C** Court/Conf. Rptg: Congressional 3
- **CTRP 055 C**, **056C** Court/Conf. Rptg: Jury Charge 1&2 6
- **CTRP 072 C** Legal Procedures 4
- ***ENGL 106 C** Critical Thinking 3
  - or **MGT 041 C** Survey of Business Law 3
  - or **MGT 240 C** Legal Environment of Business 3
  - or **MGT 241 C** Legal Aspects-Business Trans. 3
  - or **MGT 141 C** Personal Law 3
- **CTRP 074 C** CSR/RPR/CBC/CCP Exam Prep. 1
- **Total Units Required** 20 1/2

### SUMMER SESSION
- **CTRP 048 C** Machine Shorthand Speed Bldg 7 2
- **CTRP 060 C** Mach. Shorthand Challenge-220 2
- **Total Units Required** 4

### SEMESTER 5
- **CTRP 049 C**, **050 C** United States Government 3
- **CTRP 045 C** Court & Deposition Procedures 1 1/2
- **CTRP 053 C** Court & Deposition Procedures 3
  - or **HS 102 C** Legal Aspects of Health Care 2
  - or **HS 147 C** Survey of Disease 3
- **CTRP 074 C** CSR/RPR/CBC/CCP Exam Prep. 1 2
- **CTRP 078 C** Realtime Writing Concepts 2
- **Total Units Required** 11 1/2 - 12%

### PLUS 12-13 Units From the following graduation requirements:
- Written Communication 3
- Cultural Diversity 3
- Mathematics 3-4
- Art 3
- *Meets Partial Requirements for Associate Degree

### Program Total Units
- **110 1/2 - 112%**

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### COURTS REPORTING

**Program Code: 1C21103**

**Preparation for State Certificate Examination**

The courses listed are required to meet the requirements of the Court Reporter's Board. This program was accredited by the CR Board on March 7, 1978. Academic courses completed in Adult Education or a private Court Reporting School are not transferable.

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

### STUDENTS MUST FURNISH

**THEIR OWN MACHINE AND PAPER**

Required Courses are listed in suggested sequence:

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<td></td>
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<td>Court Reporting Theory Review</td>
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<td>CTRP 071 C</td>
<td>Legal Terminology &amp; Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>MGT 055 C</td>
<td>Business English</td>
<td>3</td>
</tr>
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<td>CTRP 067 C</td>
<td>Basic Vocabulary Development</td>
<td>2</td>
</tr>
<tr>
<td>COUN 140 C</td>
<td>Educational Planning</td>
<td>1/2</td>
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<td><strong>Total Units Required</strong></td>
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<table>
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<tr>
<th>Course #</th>
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<td><strong>SEMESTER 2</strong></td>
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<table>
<thead>
<tr>
<th>Course #</th>
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<th>Units</th>
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<tbody>
<tr>
<td><strong>SEMESTER 3</strong></td>
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<td><strong>Total Units Required</strong></td>
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<td>19</td>
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<td><strong>Total Units Required</strong></td>
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<td>20 1/2</td>
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<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
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<td><strong>SEMESTER 5</strong></td>
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<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td>11 1/2 - 12 1/2%</td>
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</tbody>
</table>

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**Note:** Students are advised to contact a Business counselor for any questions regarding this program.
CALIFORNIA COURT REPORTERS BOARD
ACCREDITATION
ACCREDITED COURT REPORTING PROGRAM
In order for the person to qualify from a school to take the state licensing examination, the person shall complete a program at a recognized school. For information concerning the minimum requirements that a court reporting program must meet in order to be recognized contact:

The Court Reporter’s Board of California
2535 Capitol Oaks Drive, Suite 230
Sacramento, CA 95833

CYPRESS COLLEGE BUSINESS/CIS DIVISION COURT REPORTING PROGRAM
This program was approved by the Court Reporter’s Board on March 7, 1978. Academic courses completed in Adult Education are not transferable. Courses taken in Distance Education will be evaluated on an individual basis for transferability and hour requirements. Private school academics may be evaluated for certification to take the CSR examination. The California Court Reporter’s Board sets the standards for hours of training under the following listed categories. The Cypress College program exceeds all state requirements. The student must furnish their own equipment, paper, and other supplies. Student must enter the program with a basic typing speed of 25 words per minute.

1. Machine Shorthand & Transcription – 2300 hours (Lab hours do not count for machine credit in this category, per the CR Board.)

CORE REQUIREMENTS:
CTRP 040 C  90
CTRP 041 C  90
CTRP 042 C-045 C  360
CTRP 046 C-048 C  270
CTRP 057 C-060 C  360
CTRP 050 C  90
CTRP 051 C  90
CTRP 052 C  90
CTRP 053 C  90
CTRP 054 C  90
CTRP 055 C  90
CTRP 056 C  90

Total Hours 1800

Core Requirements must be completed in order to qualify. Students must pass one ten (10) minute qualifier in CTRP 050 C to be eligible to take the state CSR licensing examination. Transfer students must demonstrate course comparability in speed building categories.

ELECTIVES – After completing the core requirements, students may gain additional machine hours by completing any of the following.
CTRP 049 C  90
CTRP 075 C  90
CTRP 090 C  90
CTRP 094 C  36
CTRP 095 C  36
CTRP 096 C  90
CTRP 089 C  90

Total Hours 522

2. ENGLISH - 215 Hours required
MGT 055 C  Business English 54
ENGL 103 C  Reasoning and Writing 54
CTRP 073AC  Spelling 18
CTRP 073BC  Punctuation 18
CTRP 067 C  Vocabulary 36
CTRP 068 C  Adv. Vocabulary 27
ENGL 135 C  Advanced Grammar 54

Total Hours 261

3. MEDICAL - 125 Hours required
HS 145 C  Sur. of Med Term 54
BIOL 160 C  Inte. Medical 54
or
HS 147 C  Survey of Disease 54
CTRP 066 C  Machine Trans-Med 36

Total Hours 144

4. LEGAL - 175 Hours required
CTRP 071 C  Legal Term 54
MGT 041 C  Survey of Bus Law
or
MGT 141 C  Personal Law
or
MGT 240 C  Legal Env Business
or
MGT 241 C  Legal Aspects of Bus Trans 54
MGT 242 C  Am Jud Systems 72

Total Hours 180

5. KEYBOARDING: 45 words per minute net
(Cypress requirement 50 net words per minute)
CTRP 072 C  Legal Procedures 50

6. TRANSCRIPT PREPARATION – 55 Hours required
MGT 143 C  Legal Research 18
CTRP 072 C  Legal Procedures 40

Total Hours 58

Suggested Electives:
CTRP 073CC Formatting
CTRP 073DC Proofreading

7. RESOURCE MATERIALS – 5 Hours required
CTRP 076 C  Court Procedures 14

Total Hours 14

8. APPRENTICESHIP TRAINING/COURT OBSERVATION – 60 Hours required
CTRP 081 C  Internship: Court Reporting 58
20 Hours - Court
20 Hours - Deposition
18 Hours - In Class
Observation Hours may be completed in various classes
CTRP 074 C  CSR/RPR/CBC/CCP Exam Prep. 24

Total Hours 82

9. TECHNOLOGY - 25 Hours required
CTRP 082 C  ProCAT
CTRP 083 C  Stenograph
CTRP 084 C  Eclipse
CTRP 070 C  StenoCAT

SUGGESTED ELECTIVES
CTRP 089 C  ProCAT
CTRP 083 C  Stenograph
CTRP 084 C  Eclipse
CTRP 070 C  StenoCAT

In order for a person to qualify from a school to take the state licensing examination, the person shall complete a program at a recognized school. For more information contact:
Department of Consumer Affairs
Court Reporter’s Board
2535 Capitol Oaks Drive, Suite 230
Sacramento, CA 92583
916-263-3660

All candidates must have a high school diploma or equivalent to take the CSR examination.

* Section 2411(a)(7) of the CR Board regulations state that a student will be allowed a reduction in the required machine hours if a student is able to pass the qualifier examination before completing the hours described in Section 1 under Machine Shorthand and Transcription. This does not exempt a student from completing the core required classes in order to qualify.

(Revised April, 2008)
To earn a certificate, students must complete the required courses as listed with a minimum grade of "C." At least 50 percent of all course work must be completed at Cypress College.

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<td>CTRP 090 C</td>
<td>Court/Conf. Rptg.: Literary</td>
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<td>CTRP 092 C</td>
<td>Court &amp; Conf. Rptg.: Lit II</td>
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<td>CTRP 096 C</td>
<td>Court &amp; Conf. Rptg.: Lit. III</td>
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<tr>
<td>CTRP 088 C</td>
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Total Units Required 15%

Electives
- CTRP 071 C Legal Terminology and Rhetoric 3
- HS 145 C Survey of Medical Terminology 3

The CART (Communication Access Realtime Translation) Certificate will provide the student with an opportunity for future employment as a courtroom captionist shadowing a hearing-impaired individual, providing a realtime translation of all proceedings. The training program provides for an internship experience, where students will learn first-hand the job duties of a CART reporter.

To earn a certificate, students must complete the required courses as 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: **

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<tr>
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<tbody>
<tr>
<td>CIS 050 C</td>
<td>Intro-Comp &amp; Software Concepts</td>
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<td>Court Reporting Theory Review</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 042 C</td>
<td>Machine Shorthand Speed Bldg 1</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 043 C</td>
<td>Machine Shorthand Speed Bldg 2</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 044 C</td>
<td>Machine Shorthand Speed Bldg 3</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 045 C</td>
<td>Machine Shorthand Speed Bldg 4</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 051 C</td>
<td>Court/Conf. Reporting: Legal Theory</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 052 C</td>
<td>Court/Conf. Rptg.: Medical</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 067 C</td>
<td>Basic Vocabulary Development</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 068 C</td>
<td>Adv. Vocabulary Development</td>
<td>1½</td>
</tr>
<tr>
<td>CIS 107 C</td>
<td>Introduction to Windows</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 092 C</td>
<td>Realtime Writing Concepts</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 079 C</td>
<td>Internship: CART</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 090 C</td>
<td>Court/Conf. Rptg.: Literary</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 089 C</td>
<td>Court &amp; Conf. Rptg.: Lit II</td>
<td>2</td>
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<tr>
<td>IND 215 C</td>
<td>Tutoring Techniques</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units Required 36½ - 37%

** Required courses are listed in suggested sequence: **

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 050 C</td>
<td>Intro-Comp &amp; Software Concepts</td>
<td>2</td>
</tr>
<tr>
<td>or CIS 111 C</td>
<td>Computer Information Systems</td>
<td>(3)</td>
</tr>
<tr>
<td>CIS 107 C</td>
<td>Introduction to Windows</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 040 C</td>
<td>Beg. Machine Shorthand Theory</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 041 C</td>
<td>Court Reporting Theory Review</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 071 C</td>
<td>Legal Terminology and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 072 C</td>
<td>Spelling for Modern Business</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 073 C</td>
<td>Punctuation-Court Reporting</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 075 C</td>
<td>Formatting, Style, and Usage</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 032 C</td>
<td>CTRP Career Exploration</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 097 C</td>
<td>Internship: Scoping/Editing</td>
<td>1</td>
</tr>
</tbody>
</table>

Select a minimum of 4 units from the following:

** Computer Aided Transcription Courses **
- CTRP 082 C Comp. Aided Trans: ProCAT 2
- CTRP 083 C Comp. Aided Trans: Stenograph 1
- CTRP 084 C Comp. Aided Trans: Eclipse 1
- CTRP 070 C Comp. Aided Trans: Stenocat 1
- 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 Adv. Vocabulary Development 1½

Total Units Required 21-22

The Court and Agency Services Certificate will provide the student with the necessary knowledge, skills, and training to be employed in the field of court and/or deposition agency administration and operations. The training provides for an internship experience of 40 hours.

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

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CTRP 073AC</td>
<td>Spelling for Modern Business</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 073BC</td>
<td>Punctuation – Court Reporting</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 073CC</td>
<td>Formatting, Style &amp; Usage</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 073DC</td>
<td>Proofreading</td>
<td>1</td>
</tr>
<tr>
<td>CIS 102 C</td>
<td>Document Formatting – MS Word</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 071 C</td>
<td>Legal Terminology &amp; Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 072 C</td>
<td>Legal Procedures</td>
<td>4</td>
</tr>
<tr>
<td>CTRP 076 C</td>
<td>Court &amp; Deposition Procedures</td>
<td>3</td>
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<tr>
<td>CTRP 093 C</td>
<td>Information Technology – CTRP</td>
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</tr>
<tr>
<td>MGT 143 C</td>
<td>Introduction to Legal Research</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 053 C</td>
<td>Internship: Agency Services</td>
<td>2</td>
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<tr>
<td>or CTRP 034 C</td>
<td>Internship: Court Services</td>
<td>(2)</td>
</tr>
<tr>
<td>CTRP 062 C</td>
<td>Notary Public Exam Prep</td>
<td>1</td>
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</tbody>
</table>

Total Units Required 23
HEARING REPORTER CERTIFICATE  
Program Code: 1K00084  
This certificate provides the student with the necessary knowledge, skills, and background to work in the field of convention reporting, hearing reporting, police department reporting, congressional reporting, and related fields.

To earn a certificate, the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CTRP 090 C</td>
<td>Court/Conf. Rptg: Literary</td>
<td>1</td>
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<tr>
<td>CTRP 052 C</td>
<td>Court/Conf. Rptg: Medical</td>
<td>3</td>
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<tr>
<td>CTRP 047 C</td>
<td>Machine Shorthand Speed Bldg 6</td>
<td>2</td>
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<tr>
<td>CTRP 056 C</td>
<td>Court/Conf. Rptg: Jury Charge 2</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 053 C</td>
<td>Court/Conf. Rptg: Congressional</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 096 C</td>
<td>Court and Conf. Rptg.: Lit III</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 087 C</td>
<td>Internship: Hearing Reporter</td>
<td>2</td>
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<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>17</strong></td>
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</tbody>
</table>

LEGAL ADMINISTRATIVE ASSISTANT CERTIFICATE  
Program Code: Pending  
This certificate prepares the student to work in a variety of venues related to the legal profession including positions as a legal administrative assistant in a law office, or in the court system, and in a variety of other legal settings.

To earn a certificate, the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CTRP 073AC</td>
<td>Spelling for Modern Business</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 073BC</td>
<td>Punctuation – Court Reporting</td>
<td>1</td>
</tr>
<tr>
<td>OFF 048 C</td>
<td>Records Administration</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 071 C</td>
<td>Legal Terminology &amp; Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>CIS 102 C</td>
<td>Document Formatting – MS Word</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 072 C</td>
<td>Legal Procedur</td>
<td>4</td>
</tr>
<tr>
<td>CIS 150 C</td>
<td>Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>MGT 055 C</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>MGT 143 C</td>
<td>Introduction to Legal Research</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 080 C</td>
<td>Internship: Law Office</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
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<td><strong>22</strong></td>
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</tbody>
</table>

SPECIALTY IN PROOFREADING  
Program Code: 1K00085  
This certificate provides the student with the necessary knowledge, skills, and background to work in the field of court reporting as a proofreader.

To earn a certificate, the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTRP 073AC</td>
<td>Spelling for Modern Business</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 073BC</td>
<td>Punctuation – Court Reporting</td>
<td>1</td>
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<tr>
<td>CTRP 073CC</td>
<td>Formatting, Style, and Usage</td>
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<tr>
<td>CTRP 057 C</td>
<td>Basic Vocabulary Development</td>
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<tr>
<td>CTRP 088 C</td>
<td>Adv. Vocabulary Development</td>
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</tr>
<tr>
<td>MGT 055 C</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 073DC</td>
<td>Proofreading</td>
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<tr>
<td>CTRP 086 C</td>
<td>Internship: Proofreading</td>
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<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>11 1/2</strong></td>
</tr>
</tbody>
</table>

WRITING IN REALTIME  
Program Code: 1K00086  
This is an advanced certificate providing the student with the necessary realtime writing application classes in order to prepare them to pass the CRR (Certified Realtime Reporter), CBC (Certified Broadcast Captioner), and the CCP (Certified CART Provider) examinations administered by the National Court Reporter’s Association.

To earn a certificate, the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTRP 092 C</td>
<td>Realtime Writing Concepts</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 094 C</td>
<td>Expert Testimony-Prof Reporter</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 095 C</td>
<td>Realtime Writing-Prof Reporter</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 074 C</td>
<td>CSR/RPR/CBC/CCP Exam Prep.</td>
<td>1</td>
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<tr>
<td><strong>Total Units Required</strong></td>
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<td><strong>7</strong></td>
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</tbody>
</table>

TEXT-ENTRY SPECIALIST: BUSINESS CERTIFICATE  
Program Code: 1C07822  
STUDENTS MUST FURNISH THEIR OWN MACHINE AND PAPER  
The Text-Entry Specialist: Business Certificate is designed to prepare the student for entry-level employment in law offices, insurance companies, police departments, and businesses using a steno machine for text-entry to enter data, rather than a computer keyboard. The Text-Entry Specialist records information and prepares reports, business documents, and legal documents in final format.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 050 C</td>
<td>Intro-Comp &amp; Software Concepts</td>
<td>2</td>
</tr>
<tr>
<td>or CIS 111 C</td>
<td>Computer Information Systems</td>
<td>(3)</td>
</tr>
<tr>
<td>CIS 075 C</td>
<td>Business Skills Development</td>
<td>1</td>
</tr>
<tr>
<td>or CIS 107 C</td>
<td>Introduction to Windows</td>
<td>(1)</td>
</tr>
<tr>
<td>CTRP 040 C</td>
<td>Beg. Machine Shorthand Theory</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 041 C</td>
<td>Court Reporting Theory Review</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 042 C</td>
<td>Machine Shorthand Speed Bldg 1</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 043 C</td>
<td>Machine Shorthand Speed Bldg 2</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 051 C</td>
<td>Court/Conf. Reporting: Legal</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 071 C</td>
<td>Legal Terminology and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>MGT 161 C</td>
<td>Business English</td>
<td>3</td>
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<tr>
<td>MGT 161 C</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 066 C</td>
<td>Machine Transcription-Medical</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 067 C</td>
<td>Basic Vocabulary Development</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 092 C</td>
<td>Realtime Writing Concepts</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
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<td><strong>31-32</strong></td>
</tr>
</tbody>
</table>
TEXT-ENTRY SPECIALIST: MEDICAL CERTIFICATE  Program Code: 1C07823

STUDENTS MUST FURNISH THEIR OWN MACHINE AND PAPER

The Text-Entry Specialist: Medical Certificate is designed for the student who is entering the field of medical transcription using a steno machine for text-entry, rather than a computer keyboard. This certificate will prepare the student for entry-level positions working for doctors and dentist offices, insurance companies, hospitals, and private medical transcription agencies.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 050 C</td>
<td>Intro-Comp &amp; Software Concepts</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>CIS 111 C</td>
<td>Business Skills Development</td>
</tr>
<tr>
<td>CTRP 040 C</td>
<td>Beg. Machine Shorthand Theory</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 041 C</td>
<td>Court Reporting Theory Review</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 042 C</td>
<td>Machine Shorthand Speed Bldg 1</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 043 C</td>
<td>Machine Shorthand Speed Bldg 2</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 044 C</td>
<td>Machine Shorthand Speed Bldg 3</td>
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<tr>
<td>CTRP 045 C</td>
<td>Machine Shorthand Speed Bldg 4</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 052 C</td>
<td>Court/Conf. Rptg: Medical</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 078 C</td>
<td>Internship: Medical Reporting</td>
<td>2</td>
</tr>
<tr>
<td>HS 145 C</td>
<td>Survey of Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 160 C</td>
<td>Integrated Medical Science</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 066 C</td>
<td>Machine Transcription-Medical</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 067 C</td>
<td>Basic Vocabulary Development</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 092 C</td>
<td>Realtime Writing Concepts</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>34-35</strong></td>
</tr>
</tbody>
</table>

Court Reporting (CTRP)

CTRP 030 C  CR DIRECTED PRACTICE LAB
¼ - 10 Units (Variable Unit Class) (May be taken for a cumulative total of 10 units)
(Open Entry-Open Exit)
Three to sixty hours laboratory per week.
Pass/No Pass
This course is designed as an open entry lab to fulfill the lab requirements for court reporting students for the California Court Reporter’s Board. Fifty-four hours is required for ½ unit of credit. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CTRP 031 C  CR ADV. DIRECTED PRACTICE LAB
¼ - 10 Units (Variable Unit Class) (May be taken for a cumulative total of 10 units)
(Open Entry-Open Exit)
Three to sixty hours laboratory per week.
Pass/No Pass
Prerequisite: Students must be at the 160 WPM level. This course is designed as an open entry skill building lab for advanced court reporting students to fulfill the lab requirements for court reporting students for the California Court Reporter’s Board. Fifty-four hours is required for ½ unit of credit. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

CTRP 032 C  CTRP CAREER EXPLORATION
1 Unit
One hour lecture per week.
Pass/No Pass
This course is designed as a career exploration class for students interested in entering the legal field, court reporting, captioning, CART, text-entry, scoping, proofing, editing, and realtime writing.

CTRP 033 C  INTERNSHIP: AGENCY SERVICES
2 Units
Two hours lecture per week and
Forty hours of internship plus
Ten hours of observation.
This course provides practical work experience in an office setting in order to prepare the student to work in a court reporting agency. There will be 40 hours of internship required, plus 10 hours of observation.

CTRP 034 C  INTERNSHIP: COURT SERVICES
2 Units
Two hours lecture per week and
Forty hours of internship plus
Ten hours of observation.
This course provides practical work experience in courthouse administrative or clerical setting. There will be 40 hours of internship required, along with 10 hours of observation.

CTRP 040 C  BEG. MACHINE SHORTHAND THEORY
3 Units
Three hours lecture and
Two hours laboratory per week.
Pass/No Pass/Letter Grade Option
This first semester course covers the basic theory of machine shorthand and mastery of the keyboard. This course meets partial requirements of the Court Reporter’s Board and the National Court Reporter’s Association. Recommend concurrent enrollment in CTRP 041 C. Three hours of court observation required.

CTRP 041 C  COURT REPORTING THEORY REVIEW
1 - 3 Units (Variable Unit Class) (May be taken for credit 3 times)
(Open Entry-Open Exit)
Two hours lecture and
Three hours laboratory per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Concurrent enrollment in or completion of CTRP 040 C. This course covers the basic theory of court reporting which emphasizes reporting theory, reading fluency, and transcribing skills. This course meets partial requirements of the Court Reporter’s Board and the National Court Reporter’s Association.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTRP 042 C</td>
<td>MACHINE SHORTHAND SPEED BLDG 1</td>
<td>½ - 2 Units (Variable Unit Class)</td>
<td>(May be taken for credit 4 times)</td>
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<tr>
<td>CTRP 043 C</td>
<td>MACHINE SHORTHAND SPEED BLDG 2</td>
<td>½ - 2 Units (Variable Unit Class)</td>
<td>(May be taken for credit 4 times)</td>
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<tr>
<td>CTRP 044 C</td>
<td>MACHINE SHORTHAND SPEED BLDG 3</td>
<td>½ - 2 Units (Variable Unit Class)</td>
<td>(May be taken for credit 4 times)</td>
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</tr>
<tr>
<td>CTRP 045 C</td>
<td>MACHINE SHORTHAND SPEED BLDG 4</td>
<td>½ - 2 Units (Variable Unit Class)</td>
<td>(May be taken for credit 4 times)</td>
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<tr>
<td>CTRP 046 C</td>
<td>MACHINE SHORTHAND SPEED BLDG 5</td>
<td>½ - 2 Units (Variable Unit Class)</td>
<td>(May be taken for credit 4 times)</td>
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<tr>
<td>CTRP 047 C</td>
<td>MACHINE SHORTHAND SPEED BLDG 6</td>
<td>½ - 2 Units (Variable Unit Class)</td>
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<tr>
<td>CTRP 048 C</td>
<td>MACHINE SHORTHAND SPEED BLDG 7</td>
<td>½ - 2 Units (Variable Unit Class)</td>
<td>(May be taken for credit 4 times)</td>
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<tr>
<td>CTRP 049 C</td>
<td>MACHINE SHORTHAND SPEED BLDG 8</td>
<td>½ - 2 Units (Variable Unit Class)</td>
<td>(May be taken for credit 4 times)</td>
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</tbody>
</table>
CTRP 050 C  CSR/RPR DIRECTED PRACTICE
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry-Open Exit)
One hour lecture and
Four hours laboratory per week.
Pass/No Pass/Letter Grade Option
This course promotes a further development of speed and accuracy in taking dictation on the machine. The student will develop sufficient skills to take new material dictation at speeds up to 240/260 wpm. Units of credit will be granted when the speed and accuracy objective is attained. This course meets the requirements of the Court Reporter's Board and the National Court Reporter's Association for speed level on question and answer trial testimony.

CTRP 051 C  COURT/CONF. REPORTING: LEGAL
1 - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry-Open Exit)
Two hours lecture and
Three hours laboratory per week.
Prerequisite: CTRP 042 C and CTRP 071 C. This course consists of an application of court reporting theory to the keyboard to develop dictation rates of 60-100 wpm for a minimum of three minutes with 95 percent accuracy. Emphasis is on jury charge, literary, and question and answer material. Legal vocabulary, acceptable California formats, and court reporting punctuation rules are introduced. Three hours of court observation required.

CTRP 052 C  COURT/CONF. RPTG: MEDICAL
1 - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry-Open Exit)
Two hours lecture and
Three hours laboratory per week.
Prerequisite: CTRP 044 C and HS 145 C. This course applies court reporting theory to the keyboard to develop dictation rates of 120-140 words per minute for a minimum of three minutes with 95 percent accuracy with emphasis on medical terminology. Three hours of court observation required.

CTRP 053 C  COURT/CONF. RPTG: CONGRESSIONAL
1 - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
Two hours lecture and
Three hours laboratory per week.
Prerequisite: CTRP 045 C. This course offers further development of speed and accuracy in taking dictation to increase machine shorthand speed and strengthen transcription skills with emphasis on congressional record material, at speeds ranging from 160-180 wpm for a minimum of three minutes with 95 percent accuracy.

CTRP 054 C  TWO/FOUR VOICE TESTIMONY
½ - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry-Open Exit)
Two hours lecture and
Three hours laboratory per week.
Pass/No Pass/Letter Grade Option
Prerequisite: CTRP 044 C and CTRP 073CC. This course develops familiarity with a simulated courtroom scene consisting of the judge, the clerk, attorneys for the plaintiff and the defendant, and a witness participating in two/four-voice dictation. Students will identify each speaker with appropriate machine designations in multi-voice testimony at 120-140 wpm for a minimum of three minutes, transcribed in proper format with 98 percent accuracy.

CTRP 055 C  COURT/CONF. RPTG: JURY CHARGE 1
½ - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry-Open Exit)
Two hours lecture and
Three hours laboratory per week.
Pass/No Pass/Letter Grade Option
Prerequisite: CTRP 045 C. This course presents an intensive application of court reporting theory to develop further reading and transcribing skills in jury charge, opening and closing arguments, legal opinion and other courtroom material at speeds ranging from 160 to 180 wpm. This course prepares the student for the machine portion of the RPR examination.

CTRP 056 C  COURT/CONF. RPTG: JURY CHARGE 2
½ - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry-Open Exit)
Two hours lecture and
Three hours laboratory per week.
Pass/No Pass/Letter Grade Option
Prerequisite: CTRP 055 C. This course presents an intensive application of court reporting theory to develop further reading and transcribing skills in jury charge, opening and closing arguments, legal opinion and other courtroom material at speeds ranging from 160 to 200 wpm. This course prepares the student for the machine portion of the RPR examination.

CTRP 057 C  MACH. SHORTHAND CHALLENGE - 160
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry-Open Exit)
One hour lecture and
Four hours laboratory per week.
Pass/No Pass/Letter Grade Option
Prerequisite: CTRP 045 C and CTRP 054 C. This course is designed for the advanced court reporting student and the transfer student to gain additional proficiency in taking multiple-voice testimony in a simulated environment at 160 wpm. Live reading will be introduced.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTRP 058 C</td>
<td>MACH. SHORTHAND CHALLENGE - 180</td>
<td>½ - 2</td>
<td>(Variable Unit Class) (May be taken for credit 4 times) (Open Entry-Open Exit) One hour lecture and Four hours laboratory per week. Pass/No Pass/Letter Grade Option Prerequisite: CTRP 057 C. This course is designed for the advanced court reporting student and the transfer student to gain additional proficiency in taking multiple-voice testimony in a simulated environment at 180 wpm. Live reading will be introduced.</td>
</tr>
<tr>
<td>CTRP 059 C</td>
<td>MACH. SHORTHAND CHALLENGE - 200</td>
<td>½ - 2</td>
<td>(Variable Unit Class) (May be taken for credit 4 times) (Open Entry-Open Exit) One hour lecture and Four hours laboratory per week. Pass/No Pass/Letter Grade Option Prerequisite: CTRP 058 C. This course is designed for the advanced court reporting student and the transfer student to gain additional proficiency in taking multiple-voice testimony in a simulated environment at 200 wpm. Videotaped testimony and live reading will be introduced.</td>
</tr>
<tr>
<td>CTRP 060 C</td>
<td>MACH. SHORTHAND CHALLENGE - 220</td>
<td>½ - 2</td>
<td>(Variable Unit Class) (May be taken for credit 4 times) (Open Entry-Open Exit) One hour lecture and Four hours laboratory per week. Pass/No Pass/Letter Grade Option Prerequisite: CTRP 059 C. This course is designed for the advanced court reporting student to gain additional proficiency in taking multiple-voice testimony in a simulated environment at 220 wpm. Videotaped testimony and live reading will be introduced.</td>
</tr>
<tr>
<td>CTRP 062 C</td>
<td>NOTARY PUBLIC EXAM PREP</td>
<td>½ - 1</td>
<td>(Variable Unit Class) (May be taken for credit 2 times) One-half to one hour lecture per week. Pass/No Pass/Letter Grade Option This course is designed to prepare students to take and pass the California State Notary Public examination.</td>
</tr>
<tr>
<td>CTRP 065 C</td>
<td>ADVANCED CAT SYSTEMS</td>
<td>½ - 2</td>
<td>(Variable Unit Class) (May be taken for credit 4 times) One-half to two hours lecture and One and one-half to six hours laboratory TBA per week. Advisory: The student must have completed a CAT (Computer-Aided Transcription) dictionary. This course is designed as an advanced CAT (Computer Aided Transcription) class to provide further instruction in CAT based court reporting software programs. A heavy emphasis will be placed on document production.</td>
</tr>
<tr>
<td>CTRP 066 C</td>
<td>MACHINE TRANSCRIPTION - MEDICAL</td>
<td>2</td>
<td>One hour lecture and Three hours laboratory per week. Pass/No Pass/Letter Grade Option Prerequisite: CIS 101 C, or CIS 125 C, or a minimum of 20 wpm. Advisory: HS 145 C or a knowledge of medical terminology is recommended. This course is designed to teach medical transcription skills. Physician's correspondence, case histories, and reports will be transcribed using transcribing machines and a personal computer. $3.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>CTRP 067 C</td>
<td>BASIC VOCABULARY DEVELOPMENT</td>
<td>2</td>
<td>Two hours lecture per week. This course is a basic course designed to enrich vocabulary and improve spelling. The emphasis is on increasing general business and professional terminology.</td>
</tr>
<tr>
<td>CTRP 068 C</td>
<td>ADV. VOCABULARY DEVELOPMENT</td>
<td>1½</td>
<td>Units One and one-half hours lecture per week. Prerequisite: CTRP 067 C. This course is an advanced course designed to enrich vocabulary and improve spelling. The emphasis is on increasing general business and professional terminology.</td>
</tr>
<tr>
<td>CTRP 070 C</td>
<td>COMP. AIDED TRANS: STENOCAT</td>
<td>1</td>
<td>Unit One hour lecture and Three hours laboratory TBA per week. This course uses computer-based instruction as well as hands-on applications to introduce the court reporting student to Stenocat Computer Aided Transcription software using personal computers.</td>
</tr>
<tr>
<td>CTRP 071 C</td>
<td>LEGAL TERMINOLOGY AND RHETORIC</td>
<td>3</td>
<td>Units Three hours lecture per week. The course includes instruction in the terminology used in legal proceedings and legal documents. The topics covered include civil and criminal litigation and cases in equity.</td>
</tr>
<tr>
<td>CTRP 072 C</td>
<td>LEGAL PROCEDURES</td>
<td>4</td>
<td>Units Four hours lecture and One hour laboratory per week. This course is designed to train the legal secretarial, paralegal, or court reporting student in legal procedures and practical law office skills and knowledge in the areas of general office duties, non-court documents, the courts, court documents, litigation, appeals, and other court actions. This course may be taught using a computer. Three hours of court observation required.</td>
</tr>
<tr>
<td>CTRP 073AC</td>
<td>SPELLING FOR MODERN BUSINESS</td>
<td>1</td>
<td>Unit One hour lecture per week. This course is designed as an 18-hour intensive review of frequently misspelled words, homonyms, synonyms, and antonyms. The emphasis will be on business, legal, medical, and technical terminology. This course meets partial requirements of the Court Reporter's Board for Section II and the Certification Program.</td>
</tr>
</tbody>
</table>
CTRP 073 BC  PUNCTUATION-COURT REPORTING
1 Unit
One hour lecture per week.
This course is designed as an 18-hour intensive review of punctuation styles and rules used in court documents, letters, legal office documents, contracts, memorandums, and reports. The emphasis will be on basic punctuation rules as they apply to written business, legal, medical, and technical documents. This course meets partial requirements of the Court Reporter’s Board for Section II and the Certification Program.

CTRP 073 CC  FORMATTING, STYLE, AND USAGE
1 Unit
One hour lecture per week.
This course is designed to provide the court reporting student and the computer editor major with instruction in preparing and formatting California court transcripts and depositions. Instruction will include format styles, usage, and fundamentals of document production using the computer.

CTRP 073 DC  PROOFREADING
1 Unit (May be taken for credit 3 times)
One hour lecture per week.
This course is designed to provide the court reporting student with instruction in editing and proofreading in order to prepare a final California court transcript, deposition, hearing transcript or other related legal document.

CTRP 074 C  CSR/RPR/CBC/CCP EXAM PREP.
½ - 3 Units (Variable Unit Class) (May be taken for a cumulative total of 3 units)
One-half to three hours lecture per week.
Pass/No Pass
This course is designed to prepare the student to successfully pass the written portion of any or all of the following examinations: CSR, RPR, CBC or CCP.

CTRP 075 C  SIMULATED COURTROOM
½ - 6 Units (Variable Unit Class) (May be taken for a cumulative total of 6 units)
(Open Entry-Open Exit)
One hour lecture and
Four hours laboratory per week.
Prerequisite: CTRP 048 C. This course is designed to offer a simulated courtroom and deposition environment with special emphasis on live reading with 2, 3, 4, and 5-voice dictation practice at speeds ranging from 180 to 200 wpm.

CTRP 076 C  COURT & DEPOSITION PROCEDURES
½ - 3 Units (Variable Unit Class) (May be taken for a cumulative total of 3 units)
(Open Entry-Open Exit)
One-half to three hours lecture per week.
Prerequisite: CTRP 072 C. This course provides extensive training in court and deposition procedures with heavy emphasis on court structure, pre-trial and trial procedures, law office procedures, ethics, and document production.

CTRP 077 C  DICTATION/TRANSCRIPTION
½ - 6 Units (Variable Unit Class) (May be taken for a cumulative total of 6 units)
(Open Entry-Open Exit)
One-half to six hours lecture and
Two to eighteen hours laboratory per week.
Pass/No Pass
This course provides further development of speed and accuracy in taking dictation on the machine at a variety of speeds. Emphasis is on reinforcement, accuracy, skill development, and speed advancement.

CTRP 078 C  INTERNSHIP: MEDICAL REPORTING
2 Units
Two hours lecture per week and
Forty hours of internship plus
Ten hours of observation.
Prerequisite: CTRP 052 C and HS 145 C. This course is designed to provide the court reporting medical transcriptionist student with practical work experience recording and reporting medical lectures, seminars, and hearings. There will be 40 hours of internship plus 10 hours of observation.

CTRP 079 C  INTERNSHIP: CART
2 Units
Two hours lecture per week and
Forty hours of internship plus
Ten hours of observation.
Prerequisite: CTRP 045 C. This course is designed to provide the CART (Communication Access Realtime Translation) student with practical work experience recording and reporting seminars, hearings, and lectures. There will be 40 hours of internship plus 10 hours of observation.

CTRP 080 C  INTERNSHIP: LAW OFFICE
2 Units
Two hours lecture and
Forty hours in a law office or legal environment plus
Ten hours of observation.
Prerequisite: CTRP 072 C. This course offers practical work experience in an approved law office in the County of Orange or Los Angeles. Internship will be scheduled during the semester, depending on available law office openings. This course fulfills partial requirements of the Legal Secretary Certificate and Degree Programs.

CTRP 081 C  INTERNSHIP: COURT REPORTING
1 - 2 Units (Variable Unit Class)
One to two hours lecture and
Forty hours in the courtroom or in deposition proceedings plus
Ten hours of observation.
Prerequisite: CTRP 047 C. This course offers practical work experience in approved court and deposition proceedings. Internship will be scheduled during the semester, depending on available court and deposition openings. This course fulfills partial requirements of the Court Reporter’s Board.

CTRP 082 C  COMP. AIDED TRANS: ProCAT
1 Unit
One hour lecture and
Three hours laboratory TBA per week.
Prerequisite: Students must have completed a CAT (Computer-Aided Transcription) dictionary. This course uses computer-based instructions as well as hands-on applications to introduce the court reporting student to ProCAT Computer Aided Transcription software.
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<th>Course Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>CTRP 083 C</td>
<td>COMP. AIDED TRANS: STENOGRAPH</td>
<td>1</td>
<td>This course uses computer-based instruction as well as hands-on applications to introduce the court reporting student to Stenograph Computer-Aided Transcription software.</td>
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<tr>
<td>CTRP 084 C</td>
<td>COMP. AIDED TRANS: ECLIPSE</td>
<td>1</td>
<td>This course will enable court reporting students to start building their personal dictionary using one of several CAT (Computer Aided Transcription) software systems.</td>
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<tr>
<td>CTRP 085 C</td>
<td>COMP. AIDED TRANS: DICT. BLDG.</td>
<td>1</td>
<td>This course offers practical work experience in proofreading in order to prepare court, deposition, and other legal documents. Internship will be scheduled within the court reporting community. There will be 20 hours of internship required.</td>
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<tr>
<td>CTRP 086 C</td>
<td>INTERNSHIP: PROOFREADING</td>
<td>1</td>
<td>This course offers practical work experience in proofreading in order to prepare court, deposition, and other legal documents. Internship will be scheduled within the court reporting community. There will be 20 hours of internship required.</td>
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<tr>
<td>CTRP 087 C</td>
<td>INTERNSHIP: HEARING REPORTER</td>
<td>½ - 2</td>
<td>This course offers practical work experience in the field of hearing reporting. Students will work in the field taking hearings, meetings, conferences, seminars, and workman’s compensation proceedings. There will be 40 hours of internship, plus 10 hours of observation.</td>
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<tr>
<td>CTRP 088 C</td>
<td>INTERNSHIP: CAPTIONING</td>
<td>2</td>
<td>This course offers practical work experience in the field of captioning, both on-line and off-line. Internship will be scheduled during the semester at various sites, including on-campus opportunities for development and perfection of captioning skills. A 15,000 word CAT dictionary is necessary to complete captioning projects. There will be 40 hours of internship, plus 10 hours of observation.</td>
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<tr>
<td>CTRP 089 C</td>
<td>COURT &amp; CONF. RPTG.: LIT. II</td>
<td>¼ - 3</td>
<td>This course is designed to prepare the student to record a variety of literary dictation material at speeds ranging from 140 to 180 wpm. Students will be introduced to a broad spectrum of vocabulary with special emphasis on topics that will lead to a career in Communication Access Realtime Translation (CART) reporting.</td>
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<tr>
<td>CTRP 090 C</td>
<td>COURT/CONF. RPTG.: LIT. II</td>
<td>1 - 3</td>
<td>This course is designed to introduce students to court reporting requirements.</td>
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<tr>
<td>CTRP 091 C</td>
<td>REALTIME WRITING CONCEPTS</td>
<td>2</td>
<td>This class is designed for students and reporters to further develop dictionary refinement and writing skills in realtime. Students must furnish a steno machine, a lap top computer, and other related court reporting supplies.</td>
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<tr>
<td>CTRP 092 C</td>
<td>EXPERT TESTIMONY-PROF REPORTER</td>
<td>2</td>
<td>This class is designed for students and reporters who studied a non-compatible computer theory. The class focuses on realtime writing concepts and their application to dictionary development, conflict resolution, and non-translates. Students are required to furnish their own steno machine, lap top computer, and other related court reporting supplies.</td>
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Dance

Division of Fine Arts

Division Dean – Ting-Pi (Joyce) Carrigan

Faculty
Erin Landry

Counselors
Renay Laguana-Ferinac
Renee Ssensalo

PROGRAM LEARNING OUTCOMES (PLOs)
Program Learning Outcomes (PLOs) are in the process of finalization.

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 percent 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

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<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Units</th>
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<tr>
<td>DANC 101 C</td>
<td>Multicultural Dance in the US</td>
<td>3</td>
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<tr>
<td>DANC 105 C</td>
<td>Ballet</td>
<td>1 1/2</td>
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<tr>
<td>DANC 107 C</td>
<td>Modern Dance</td>
<td>1 1/2</td>
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<tr>
<td>DANC 111 C</td>
<td>Jazz Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 202 C</td>
<td>Elements of Choreography</td>
<td>2</td>
</tr>
<tr>
<td>DANC 106 C</td>
<td>Classical Dance</td>
<td>1 1/2</td>
</tr>
<tr>
<td>DANC 108 C</td>
<td>Free Form Dance</td>
<td>1 1/2</td>
</tr>
<tr>
<td>DANC 112 C</td>
<td>Intermediate Jazz Dance</td>
<td>1 1/2</td>
</tr>
<tr>
<td>DANC 204 C</td>
<td>Dance Rehearsal &amp; Performance</td>
<td>3</td>
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<tr>
<td>DANC 215 C</td>
<td>Commercial Dance</td>
<td>2</td>
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<tr>
<td>DANC 214 C</td>
<td>Dance Repertory</td>
<td>3</td>
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</tbody>
</table>

Select 2 courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>DANC 109 C</td>
<td>Dance Improvisation</td>
<td>1 1/2</td>
</tr>
<tr>
<td>DANC 113 C</td>
<td>Tap Dance</td>
<td>1 1/2</td>
</tr>
<tr>
<td>DANC 114 C</td>
<td>Rhythm Dance</td>
<td>(1 1/2, 2)</td>
</tr>
<tr>
<td>DANC 124 C</td>
<td>Partnering</td>
<td>1</td>
</tr>
<tr>
<td>DANC 208 C</td>
<td>Pointe Class</td>
<td>1</td>
</tr>
</tbody>
</table>

Select 3 courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 115 C</td>
<td>Hip Hop Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 130 C</td>
<td>Afro-Caribbean Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 131 C</td>
<td>Ballet Folklorico</td>
<td>1</td>
</tr>
<tr>
<td>DANC 132 C</td>
<td>Flamenco Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 133 C</td>
<td>Dance of Andalusia</td>
<td>1</td>
</tr>
<tr>
<td>DANC 136 C</td>
<td>Middle Eastern Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 137 C</td>
<td>Latin and Swing Dance</td>
<td>1</td>
</tr>
</tbody>
</table>

Culinary Arts – See Hospitality, Restaurant, Culinary Arts (HRC)
DANCE TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

DANCE (DANC)

DANC 101 C MULTICULTURAL DANCE IN THE US
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. Social and theatrical dances of the U.S. today will be viewed and examined in terms of cultural influences, historical and social origins, and the functions they fulfill for individual artists, their cultures, and society in general. African American, Asian, Hispanic, European and Native American dances, choreographers and dancers will be studied. The class work will include readings, discussions, group projects, and analysis of dance performances on video and live theater. Attendance at a selected group of performances is required. Dance concert admission will not exceed $40.00.

DANC 102 C PILATES MAT WORK
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC Credit Limitation/CSU
This class is designed to prepare a student mentally and physically for dance and other related physical disciplines. Students will learn Pilates floor mat exercises and a floor barre to increase flexibility, strength, body alignment with an emphasis on strengthening the core muscle groups.

DANC 105 C BALLET
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE
Prerequisite: Demonstrated mastery of beginning level dance technique. This class covers the rudiments of classical ballet to the beginning dance student. The students will develop the strength and coordination to perform the technical skills of basic ballet through barre and center work and by learning simple movement combinations. Ballet terminology will be covered. Dance concert admission will not exceed $12.00.

DANC 106 C CLASSICAL DANCE
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
UC/CSU, AA GE, CSU GE
This class covers the rudiments of classical ballet to the beginning ballet student. The student will develop the technical skills to perform intermediate level steps and combinations. Ballet terminology will be covered. Dance concert admission will not exceed $12.00.

DANC 107 C MODERN DANCE
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE
Prerequisite: Demonstrated mastery of beginning level dance technique. This class covers the intermediate level steps and combinations of movement. Classical dance terminology will be covered. Dance concert admission will not exceed $12.00.

DANC 108 C FREE FORM DANCE
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
UC/CSU, AA GE, CSU GE
Prerequisite: Demonstrated mastery of beginning level dance technique. Using a variety of music styles, students will learn and create intermediate level dances that convey thoughts, feelings and ideas. Participation develops an expressive movement vocabulary while building strength and coordination. Dance concert admission will not exceed $30.00.

DANC 109 C DANCE IMPROVISATION
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE
Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.
**DANC 109 C  DANCE IMPROVISATION**  
1 Unit (May be taken for credit 4 times)  
Two hours laboratory per week.  
UC/CSU, CSU GE  
This course is designed to train the mind and body to respond and explore creative movement problems through improvisation. Choreographic concepts will be studied through improvisation.

**DANC 111 C  JAZZ DANCE**  
1 - 2 Units (Variable Unit Class) (May be taken for credit 2 times)  
Two to four hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE  
Students will learn basic skills of jazz dance with emphasis on body alignment, strength and coordination. Dance concert admission will not exceed $30.00.

**DANC 112 C  INTERMEDIATE JAZZ DANCE**  
1 - 2 Units (Variable Unit Class) (May be taken for credit 2 times)  
Two to four hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE  
Prerequisite: Demonstrated mastery of beginning level dance technique. Students will further develop their technical skills for jazz dance and learn faster, more complicated movement combinations appropriate for the intermediate dancer. Dance concert admission will not exceed $12.00.

**DANC 113 C  TAP DANCE**  
1 Unit (May be taken for credit 4 times)  
Two hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU  
Students will study basic tap dance technique and elementary tap dances. The class provides students with the opportunity to develop coordination, rhythm and performance skills for tap dance. Some history of tap will be included. Cost of dance concert admission will not exceed $12.00.

**DANC 114 C  RHYTHM DANCE**  
1 - 1½ Units (Variable Unit Class) (May be taken for credit 4 times)  
Two to three hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU  
Prerequisite: Demonstrated mastery of beginning level dance technique. Students will develop skills in rhythm dancing by studying intermediate level movements and combinations with some provision for student composition of dance. Performance skills will be included. Cost of dance concert admission will not exceed $12.00.

**DANC 115 C  HIP HOP DANCE**  
1 Unit (May be taken for credit 4 times)  
Two hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
CSU  
Students will learn various forms of beginning hip-hop dance, including pop and lock, hip-hop funk, syncopations and rhythms. A basic history of hip-hop culture will be discussed. Dance concert admission will not exceed $12.00.

**DANC 120 C  DANCE HISTORY**  
3 Units  
Three hours lecture per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE, IGETC  
History of Dances uses readings, audiovisual media, lectures and in-class discussion to enable students to study the history of dance from its origins to present day. Students will also compare various dance techniques, theories and choreographers. Cost of dance concert not to exceed $12.00.

**DANC 121 C  TURNS**  
1 Unit (May be taken for credit 4 times)  
Two hours laboratory per week.  
UC/CSU  
Prerequisite: Demonstrated mastery of beginning level dance technique. This course will cover beginning to advanced turns for modern, ballet and jazz dance.

**DANC 122 C  STRETCH AND RELAXATION**  
½ - 1½ Units (Variable Unit Class) (May be taken for credit 4 times)  
One to three hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC Credit Limitation/CSU  
This class is designed to increase flexibility and circulation and promote relaxation by learning various stretching exercises including reciprocals and yoga postures plus breathing and relaxation techniques.

**DANC 124 C  PARTNERING**  
1 Unit (May be taken for credit 4 times)  
Two hours laboratory per week.  
UC/CSU  
Prerequisite: Demonstrated mastery of intermediate dance level technique. This class introduces the basic elements of partnering to the intermediate dancer. The students will develop the strength and coordination to perform the basic skills for both floor partnering and lifts.

**DANC 130 C  AFRO-CARIBBEAN DANCE**  
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)  
Two to four hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE  
Students will learn dance styles and rhythms of African and Caribbean cultures including dances from West Africa, Brazil, Trinidad, Haiti, Bahia, Cuba, and the Dominican Republic. Dance as an inseparable part of the culture will be discussed. Dance concert admission not to exceed $12.00.

**DANC 131 C  BALLET FOLKLORICO**  
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)  
Two to four hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU  
Students will learn folk dances from various regions of Mexico such as Vera Cruz, Jalisco and Pueblo. The cultural background of each dance will be discussed. Dance concert admission not to exceed $12.00.
DANC 132 C  FLAMENCO DANCE
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU
Students will study basic Flamenco Dance technique and learn movement combinations and the cultural aspect of the dance. The class provides students with the opportunity to develop coordination, rhythm, and performance skills for Flamenco Dance. Some history of Flamenco will be included. Cost of dance concert admission will not exceed $12.00.

DANC 133 C  DANCE OF ANDALUSIA
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU
Students will study the dance of Andalusia, Spain, dance techniques and movement combinations with increasingly difficult rhythmic patterns. Dance concert admission not to exceed $30.00.

DANC 134 C  LATIN JAZZ
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE
Students will study and learn basic skills of Latin jazz dance and styles inherent in Jazz and Afro-Cuban dance and Latin popular rhythms such as Cha Cha Cha, Mambo, Salsa, Merengue, Bolero, Cumbia, Corridos and Flamenco Rumba. Students will learn Latin Jazz combinations. Dance concert admission not to exceed $30.00.

DANC 136 C  MIDDLE EASTERN DANCE
1 Unit (May be taken for credit 4 times)
Two hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU
Students will learn the social and stage dances from the Near and Middle East. Course work includes styling, veil work, cymbal playing, improvisation, Dabke, fusion forms, vocabulary and cultural background of the dances. Dance concert admission not to exceed $12.00.

DANC 137 C  LATIN AND SWING DANCE
1 Unit (May be taken for credit 4 times)
Two hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU
Students will learn various Latin and swing dance forms such as east and west coast swing, salsa, cha-cha, and meringue. The course will focus on learning the choreography in each style while developing coordination, partnering and performances skills. Individual choreography will enhance the students' knowledge of each dance form as well as encourage creativity. Dance concert admission not to exceed $12.00.

DANC 140 C  SUMMER DANCE FESTIVAL
2 - 5 Units (Variable Unit Class) (May be taken for credit 4 times)
Eight to twenty hours of laboratory TBA per week.
CSU
Prerequisite: Audition. The Summer Dance Festival is designed to give both high school and college students the opportunity for intensive study of a variety of dance styles by taking technique classes while rehearsing choreography of faculty and students. All phases of the dance concert process from audition to rehearsal to backstage preparation will be covered.

DANC 202 C  ELEMENTS OF CHOREOGRAPHY
2 Units (May be taken for credit 4 times)
Two hours lecture and One hour laboratory per week.
UC/CSU
Prerequisite: Demonstrated mastery of beginning level dance technique. Students will study the theories and practices involved in basic dance composition. Methodologies will include elements of shape, space, time, music, topics and other theories and dance styles that involve the creation of a dance. Cost of dance concert admission will not exceed $30.00.

DANC 203 C  DANCE PRODUCTION
1-2 Units (Variable Unit Class) (May be taken for credit 4 times)
Four to eight hours laboratory per week.
UC/CSU
This course offers practical experience in the technical aspects of dance production including costume design, set design, makeup, lighting, sound production, and publicity.

DANC 204 C  DANCE REHEARSAL & PERFORMANCE
2 - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
Eight to twelve hours laboratory TBA per week for maximum credit.
UC/CSU
Prerequisite: Audition. Advisory: Concurrent Enrollment in one of the following: DANC 203 C, THEA 149 C, or one from THEA 140 C through THEA 147 C. This course provides the experience of learning and performing choreographic works of faculty, students, and guest artists. All phases of the dance concert process from audition to rehearsal to backstage preparation will be covered.

DANC 205 C  DANCE ENSEMBLE
3 Units (May be taken for credit 4 times)
Two hours lecture and Four hours laboratory per week.
UC/CSU
Prerequisite: Audition. Theater and dance students with intermediate to advanced skill levels will develop their performing and choreographic skills, learn the basics of fund raising and promotion of dance while performing at K-12 schools, community events and dance festivals.
DANC 208 C  POINTE CLASS
1 Unit (May be taken for credit 4 times)
Two hours laboratory per week.
UC/CSU
Prerequisite: Demonstrated mastery of intermediate dance technique. Students will learn exercises to develop the strength and coordination to perform ballet steps in pointe shoes. Proper shoe fit, injury prevention and correct body alignment will be covered. Dance concert admission not to exceed $12.00.

DANC 212 C  DANCE FOR STAGE, FILM & VIDEO
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
UC/CSU
Prerequisite: Demonstrated mastery of intermediate level dance technique. This class is designed for the technically strong dancer. Class work will include instruction in performance techniques and various styles of dance used in film, stage and music videos. Dance concert admission not to exceed $12.00.

DANC 214 C  DANCE REPERTORY
2 - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
Eight to twelve hours laboratory TBA per week for maximum credit.
UC/CSU
Prerequisite: Audition. Advisory: Concurrent enrollment in one of the following: DANC 203 C, THEA 149 C, or one from THEA 140 C through THEA 147 C. This course provides the opportunity to rehearse and perform works choreographed by faculty and/or artist-in-residence under professional working conditions and requirements. All phases of the dance concert process from audition to rehearsal to backstage preparation will be covered.

DANC 215 C  COMMERCIAL DANCE
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Two to four hours laboratory per week.
CSU
Prerequisite: Demonstrated mastery of intermediate level dance technique. Course work will develop the jazz dancer’s technique and performance skills in order to successfully execute combinations required for television and musical theater dance performance. Cost of dance concert admission will not exceed $12.00.

DANC 230 C  DANCE TEACHING METHODOLOGIES
3 Units
Two hours lecture and
Two hours laboratory per week.
CSU
Prerequisite: Demonstrated mastery of intermediate level dance technique. Students will learn the appropriate teaching methodologies that can be applied in different instructional venues: schools, colleges and private studios, to name a few. Subject matter will include theoretical and practical applications of dance pedagogy. Cost may not exceed $30.

DANC 296 C  DANCE OPEN LABORATORY
1 - 6 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry/Open Exit)
Two to twelve hours laboratory per week.
UC Credit Limitation/CSU
This is an open entry/open exit class for students to obtain production experience associated with dance concert through performing, choreographing, technical work, management, and publicity. May be taken for credit 4 times. Concert admission cost may not exceed $30.

DANC 298 C  DANCE SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to forty-eight hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar provides the opportunity to study new dance styles or a variety of other subject matters related to dance that are not included in present curriculum. Fees may be required – PAYABLE AT REGISTRATION.

DANC 299 C  DANCE - INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
One to four hours per week for maximum credit.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. This course is for advanced students who wish to increase their knowledge of dance and/or performance through individual study or research. Unit credit may range from one-half to two units in any given semester.
Dental Assistant

Division of Health Science

Division Dean – John Sciacca

Faculty
Elizabeth Pacheco

Counselors
Kelly Carter
Denise Vo

PROGRAM LEARNING OUTCOMES (PLOs)

Dental Assisting
A student who completes the Dental Assisting program will be able to:

- Gain the academic knowledge and skill, and competence necessary to qualify for both the National Certification Exam and the California State Registered Dental Assistant Exam.
- Gain the knowledge necessary for the ethical, legal and competent practice of dental assisting.
- Perform the functions approved by the California Dental Practice Act for a Registered Dental Assistant with competence and judgment.
- Attain the dental radiology license.
- Coronal polish and apply dental sealants.
- Attain laboratory competency in the Ultrasonic removal of excess cement from coronal surfaces of teeth under orthodontic treatment.
- Prepared for employment as a dental assisting as an integral member of the dental team.
- Have the opportunity to explore specialty offices.

REGISTERED DENTAL ASSISTANT

The one-year Registered Dental Assistant (RDA) program includes patient care, experiences in a fully equipped on-site facility, and externship experiences in clinics and dental offices. The Cypress College Dental Assistant program is accredited by the Commission on Dental Accreditation, and has been granted the accreditation status of approval without reporting requirements. The Commission is a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and by the United States Department of Education.

The Cypress College Dental Assistant Program is also accredited by the Dental Board of California, the Accrediting body for the dental professionals (Auxiliaries) in California through the Department of Consumer Affairs.

At the completion of the program the student will be certified to take Dental Radiographs "x-rays", and will be eligible to take the California Registered Dental Assistant’s Examination and the National Certification Examination for Dental Assistants. Upon successful completion of the California RDA Examination the student will be licensed to perform all of the DA and RDA procedures in California Dental Practice Act.

Registered Dental Assistants are highly valued by the dental professions and have a choice of work environments from private offices to hospitals and clinics. They are involved in a variety of duties including managing the front office, preparing the patient, taking radiographs, mixing dental materials, and now with expanded functions, not only assisting chairside, but performing certain clinical procedures within the patients mouth.

PROGRAM GOALS AND OBJECTIVES

The goals and objectives of the Cypress College Dental Assistant Program are the following:

1. To provide the student with the academic knowledge and skill, and competence necessary to qualify for both the National Certification Exam and the California State Registered Dental Assistant Exam.

2. To prepare the student for dental assisting entry-level employment as an integral member of the dental health team.

THE CYPRESS COLLEGE DENTAL ASSISTANT PROGRAM OBJECTIVES ARE TO:

1. Provide a dental assisting program to meet challenges presented by demographic changes of the current decade.

2. Promote a dental assisting curriculum that helps build student’s educational and career goals in a success-oriented learning environment.

3. To provide students with the academic resources and clinical experiences to perform the functions approved by the California Dental Practice Act for a Registered Dental Assistant with competence and judgment.

4. To provide students with academic knowledge and clinical skills in the Dental Practice Act, infection control and CPR.

5. Prepare the student to qualify for certification in Radiology Safety, Coronal Polishing and Dental Sealants.

6. Prepare the student to attain laboratory competency in the ultrasonic removal of excess cement from coronal surfaces of teeth under orthodontic treatment.

7. Maintain a positive communication network between the advisory committee, dental community, and dental assistant program alumni.

8. To create a safe learning environment in compliance with federal and California state standards and regulations.

MINIMUM STANDARD

1. High School graduation or completion of the General Education Development test (GED) or passing of high school proficiency examination.

2. Minimum age of 17 years. (RDA licensure requires candidate to be a minimum age of 18 years).

3. Completion of ENGL 058 C/ESL 185 C or a comparable course, with grade of “C” or better, or submission of test scores that indicate eligibility for ENGL 060 C/ESL 186 C.

APPLICATION PROCEDURES

1. Meet with a counselor to determine fulfillment of the English language proficiency requirements. Examples of ways to meet these requirements include taking the English assessment test at Cypress or another college and scoring into ENGL 060 C or ESL 186 C, or completion of ENGL 058 C or ESL 185 C at Cypress or a comparable course at another college, with a grade of “C” or better.

2. Complete the Dental Assistant program application which may be obtained from the Health Science Counseling Office, Health Science Building, Cypress College, 9200 Valley View, Cypress, CA 90630. Applications are available February 1 until the program is full.
Dental Assistant (DA)

**DA 016 C  DENTAL MATERIALS**  
3 Units  
Two hours lecture and  
Three hours laboratory per week.  
Prerequisite: Acceptance into the Dental Assisting Program. A study of the structure, chemical and physical properties and manipulation of materials used in dentistry will be covered. Laboratory application of dental materials and the relationship of dental materials to the oral environment is included. Emphasis in this course is on specific materials and functions delegated to the registered dental assistant by the State of California. $60.00 Materials Fee – PAYABLE AT REGISTRATION.

**DA 058 C  CLINICAL EXTERNSHIP I**  
1½ Units  
One-half hour lecture and  
Three hours laboratory per week.  
Prerequisite: Acceptance in the Dental Assistant Program. This is the first in a series of clinical externships. The emphasis is on beginning level skills and training for the dental assistant. Dental Assistant students will complete clinical rotations in dental offices and/or schools of dentistry.

**DA 059 C  CLINICAL EXTERNSHIP II**  
3 Units  
One hour lecture and  
Six hours laboratory per week.  
Prerequisite: Acceptance in the Dental Assistant Program and completion of first semester. This is the second in a series of clinical externships. The emphasis is on advanced skills and training for the dental assistant.

**DA 061 C  ORAL ANATOMY/DENTAL ASSISTANT**  
3 Units  
Three hours lecture per week.  
Prerequisite: Acceptance in the Dental Assistant Program. This course prepares the student with the basic dental sciences in order to relate and demonstrate dental chairside procedures. Content includes dental anatomy and physiology, oral embryology and oral histology, tooth morphology, and oral pathology related to sterilization, pharmacology, and pain control.

**DA 062 C  PREVENTIVE DENTAL HEALTH**  
2 Units  
Two hours lecture per week.  
Prerequisite: Acceptance in the Dental Assistant Program. This course deals with the concepts of dental health and total patient care. This is accomplished by providing instruction and practice of oral hygiene, production of plaque (etiological factors and effective removal of), applied nutrition, and developing a patient education program. In addition, this course covers management of dental and medical emergencies, taking and evaluating a medical/dental history and systemic diseases with dental care implications.
DA 063 C  CHAIRSIDE ASSISTING I
3 Units
Two hours lecture and
Three hours laboratory per week.
Prerequisite: Acceptance in the Dental Assistant Program. This course provides lecture and laboratory instruction in chairside assisting, including history of dentistry, the dental health team, pre-clinical knowledge and entry-level skills for the assistant, advancing to the application of theoretical knowledge, and principles of restorative dentistry. In addition, students will be provided with a thorough knowledge of infection control in the central environment. Principles and fundamentals of infection control, clinical procedures, sterilization and disinfection will be covered. Content and skills will progress in relation to the complexity of the procedures as the student gains practical experience. $62.00 Materials Fee – PAYABLE AT REGISTRATION.

DA 065 C  RADIOLOGY, DENTAL ASSISTANTS
3 Units
Two hours lecture and
Three hours laboratory per week.
Prerequisite: Enrollment in Dental Assistant program or practicing Dental Assistant enrolled in class to meet state certification. This course covers the didactic, pre-clinical work on mannequins and clinical instruction on patients as required by the California State Practice Act in regard to radiation safety. Upon successful completion of the course, the student will be certified to take x-rays on patients in the dental office. The student will complete 72 (seventy-two) hours of instruction (two hour lecture, three hours laboratory per week) to meet state requirements. $60.00 Materials Fee – PAYABLE AT REGISTRATION.

DA 066 C  CLINICAL DENTAL RADIOLOGY
1 Unit
Three hours clinical laboratory per week.
Prerequisite: Enrollment in the Dental Assistant Program. This course provides advanced clinical instruction on the exposure of intraoral and extraoral radiographs. The bisecting angle technique; paralleling technique; panelipse machine; and adjunct dental radiology aids will be utilized. Emphasis in this course is placed upon the student’s performance and demonstrated ability to consistently produce diagnostic radiographs. $40.00 Materials Fee – PAYABLE AT REGISTRATION.

DA 067 C  DENTAL SPECIALTIES
3 Units
Two hours lecture and
Three hours laboratory per week.
Prerequisite: Enrollment in the Dental Assistant Program and successful completion of all first semester courses. This course provides instruction in the principles and procedures to function in the specialty area of dentistry: orthodontics, periodontics, endodontics, pediatric dentistry, prosthetics, and oral surgery. It also provides information and clinical practice in those functions legally delegated to the Dental Assistant and Registered Dental Assistant in the California Dental Practice Act. It includes rules and regulations implemented by the Board of Dental Examiners pertaining to licensure. $68.00 Materials Fee – PAYABLE AT REGISTRATION.

DA 068 C  CHAIRSIDE ASSISTING II
3 Units
Two hours lecture and
Three hours laboratory per week.
Prerequisite: Enrollment in the Dental Assistant Program and successful completion of the first semester courses and/or an employed dental assistant. This course provides instruction in the principles, instrumentation, and procedures to function as a Registered Dental Assistant according to the legal stipulation in the California Dental Practice Act and implemented by the Board of Dental Examiners.

DA 069 C  CLINICAL EXTERNSHIP III
2 Units
Eight hours clinical office practice per week.
Prerequisite: Enrollment in the Dental Assistant Program and successful completion of first semester. A minimum of eight hours per week will be spent in rotations in dental offices. Students will assist the dentist in general practice. Students will rotate through dental specialty offices gaining experience in dental specialties and expanded duties.

DA 070 C  DENTAL OFFICE PROCEDURES
2 Units
Two hours lecture per week.
Prerequisite: Acceptance in Dental Assistant Program. This course is designed to provide instruction, both didactic and practical application, in the skills and responsibilities of a dental administrative assistant. In addition, the students will be trained to use the Dentrix Dental Software program to become knowledgeable in all areas of practice management utilizing the computer. These areas include patient files, charting and treatment planning, appointment scheduling, reports and insurance claim processing. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

DA 099 C  DENTAL ASSISTING INDEP. STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Varying hours of scheduled conferences or clinics per week according to instructor.
Pass/No Pass/Letter Grade Option
Prerequisite: Approved Independent Study Learning Contract. This course is designed for students with background/experience in Dental Assisting who wish to increase their knowledge and experience in applied areas. Students will participate in independent study on assigned areas under staff supervision.
Dental Hygiene

Division of Health Science

Division Dean – John Sciacca

Faculty
Kathleen Alvarez
Kendra Contreras
Carol Green
Ina Rydalch
Carol Zakala

Counselors
Kelly Carter
Denise Vo

PROGRAM OBJECTIVES
1. To educate dental hygiene students in the ethical, legal and competent practice of dental hygiene.
2. To educate dental hygiene students in the areas of disease prevention and oral health promotion.
3. To facilitate dental hygiene students involvement in community projects.
4. To promote professional growth, development, and an appreciation for scholarly activity.
5. To ensure the dental hygiene student provides optimal patient care.

MINIMUM STANDARDS FOR APPLICANTS
1. Eligibility for admission to Cypress College.
2. High school graduation or completion of the General Education Development (GED) test or passing of high school proficiency examination.
3. GPA of 2.5 or higher in all college work completed.
4. Evidence of good physical and mental health as determined by medical examination upon admission to the program and prior to enrollment.
5. Completion of specific science courses with a minimum of “C” grade and overall GPA of 3.0. See list below.
6. Completion of specific general education courses prior to application.

PREREQUISITES
The following courses must be completed with a minimum grade of “C”.

1. Science: All courses must be completed within five years of filing the initial application and with an overall GPA of 3.0. Four courses must be completed prior to application; the remainder must be completed no later than the end of the spring semester prior to enrollment in the fall program.

Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHEM 101 C</td>
<td>Introduction to Chemistry</td>
<td>5</td>
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<tr>
<td>CHEM 201 C</td>
<td>Basic Organic &amp; Biochemistry</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 220 C</td>
<td>Medical Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 231 C</td>
<td>General Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 241 C</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>HRC 100 C</td>
<td>Nutrition</td>
<td>3</td>
</tr>
</tbody>
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2. In addition a minimum of three courses of the following related courses must be completed prior to application. All courses must be completed by the end of the spring semester prior to fall enrollment into the program.

Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101 C</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 C</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>COMM 100 C</td>
<td>Human Communication</td>
<td>3</td>
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<tr>
<td>ENGL 100 C</td>
<td>College Writing</td>
<td>3</td>
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<tr>
<td>Arts or Humanities</td>
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ASSOCIATE IN SCIENCE DEGREE

DENTAL HYGIENE Program Code: 1S03787

The Cypress College Dental Hygiene Program is accredited by the Commission on Dental Accreditation, and has been granted the Accreditation status of approval without reporting. The Commission is a specialized accrediting body recognized by the United States Department of Education and the Council on Higher Education Accreditation. This program offers a curriculum that provides the student with the appropriate academic instruction to achieve eligibility for the National Board of Dental Hygiene Examiners written examination, and the California State Board Examination for licensure as a Registered Dental Hygienist, qualifying the candidate as stipulated in the California Dental Practice Act.

To earn an Associate Degree students must complete all graduation requirements to include: (1) all major course requirements with a “C” or better; (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.

PROGRAM GOAL

The goal of the Cypress College Dental Hygiene Program is to provide the student with the educational opportunity to attain the knowledge and skills necessary to qualify for licensure as a Registered Dental Hygienist, and a professional member of the allied health team.
## ADDITIONAL COURSES
The following courses are required for the Associate Degree must be completed prior to the end of the program if an Associate Degree has not already been earned by the student:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 040 C</td>
<td>Intermediate Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PE</td>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Art or Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Reading Proficiency</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td>3</td>
</tr>
</tbody>
</table>

## SELECTION PROCEDURE
Applications normally exceed capacity. Selection of applicants is based on accumulation of points. Criteria are available in the Health Science Counseling Office. Criteria are subject to change. It is the applicant's responsibility to verify that evidence of criteria is on file at Cypress College.

## APPLICATION PROCEDURES
1. Application packets must be completed in person at the Health Science Counseling Office, Health Science Building, Cypress College, 9200 Valley View, Cypress, CA 90630.

2. Application must be made during the month of February for the following Fall enrollment.

3. March 15 - Transcripts and RDA Certificate verification must be submitted to the Health Science Application Office. For questions, please contact the Health Science Application Office.

## DENTAL HYGIENE CURRICULUM
Dental Hygiene courses must be taken in a specific sequence. Students must obtain a minimum grade of “C” or better in all courses listed in the Dental Hygiene Curriculum to continue in the program. Refer to the General Education Requirement of the college to obtain an Associate Degree.

Upon completion of the Dental Hygiene curriculum listed below and the general education requirements, the student will be eligible for an Associate Degree from Cypress College. Those students who have previously earned an Associate Degree and have completed all the Cypress College Dental Hygiene curriculum requirements will be eligible for a Certificate in Dental Hygiene.

### Required Courses are listed in specific sequence:

#### SEMESTER 1

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH 101 C</td>
<td>Dental Anatomy &amp; Morphology</td>
<td>2</td>
</tr>
<tr>
<td>DH 104 C</td>
<td>Oral Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>DH 106 C</td>
<td>Radiology Tech./Hygienists</td>
<td>3</td>
</tr>
<tr>
<td>DH 109 C</td>
<td>Pre-Clinical Dental Hygiene</td>
<td>4-5</td>
</tr>
<tr>
<td>DH 205 C</td>
<td>Oral Histology and Embryology</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
<td><strong>15</strong></td>
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</table>

#### SEMESTER 2

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH 110 C</td>
<td>Clinical Dental Hygiene</td>
<td>6</td>
</tr>
<tr>
<td>DH 113 C</td>
<td>General and Oral Pathology</td>
<td>2</td>
</tr>
<tr>
<td>DH 116 C</td>
<td>Dental Materials/Hygienists</td>
<td>2</td>
</tr>
<tr>
<td>DH 125 C</td>
<td>Perio Pathology &amp; Therapy</td>
<td>2</td>
</tr>
<tr>
<td>DH 212 C</td>
<td>Head and Neck Anatomy</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
<td><strong>14</strong></td>
</tr>
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</table>

#### SEMESTER 3

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH 220 C</td>
<td>Clinical Dental Hygiene</td>
<td>6</td>
</tr>
<tr>
<td>DH 240 C</td>
<td>Community Oral Health I</td>
<td>2</td>
</tr>
<tr>
<td>DH 250 C</td>
<td>Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>DH 255 C</td>
<td>Dental Anesthesiology</td>
<td>2</td>
</tr>
<tr>
<td>DH 260 C</td>
<td>Dental Care for Special Needs</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

### DENTAL HYGIENE CERTIFICATE
**Program Code: 1C21118**

Students who have previously earned an Associate Degree and have completed all the Cypress College Dental Hygiene curriculum requirements will be eligible for a Certificate in Dental Hygiene. To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At Least 50 percent of all course work must be completed at Cypress College.

**PRE-DENTAL HYGIENE TRANSFER PROGRAM**

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

### Dental Hygiene (DH)

#### DH 101 C  DENTAL ANATOMY & MORPHOLOGY

2 Units

*Two hours lecture per week.*

**CSU**

**Prerequisite:** Admission to and enrollment in the Dental Hygiene Program. This course presents a study in dental anatomy, morphology, and occlusion essential to the proper care of patients during clinical treatment. An emphasis will be placed on the proper identification of oral and dental structures, the utilization of proper terminology, the recognition of normal occlusion in contrast to malocclusion and the clinical significance of temporomandibular joint dysfunction.

#### DH 104 C  ORAL HEALTH ASSESSMENT

3 Units

*Three hours lecture per week.*

**CSU**

**Prerequisite:** Admission to and enrollment in the Dental Hygiene Program. This course is a multifaceted course that presents foundation information skills for the beginning student clinician to utilize daily in direct patient care. Primarily, it is an introduction to the recognition, gathering and interpretation of assessment data as an aid to formulating checklist dental hygiene treatment plans. In addition, it provides the basics to dental disease prevention through the dissemination and application of existing dental health knowledge through chair side instruction.
DH 106 C  RADIOLOGY TECH./HYGIENISTS  
3 Units  
Two hours lecture and  
Three hours laboratory per week.  
CSU  
Prerequisite: Admission to and enrollment in the Dental Hygiene Program. This course for dental hygiene students includes didactic and pre-clinical instruction in the essential of dental radiography. Lecture emphasizes the technical aspects of radiation production, protection against the hazards of radiation, and utilization of radiographs during patient care. The laboratory provides demonstrations and practical application in the fundamentals of intraoral and extraoral radiographic techniques, processing, mounting and identification of normal anatomical landmarks. $66.00 Materials Fee – PAYABLE AT REGISTRATION.

DH 109 C  PRE-CLINICAL DENTAL HYGIENE  
4½ Units  
Two and one-half hours lecture and  
Six hours laboratory per week.  
CSU  
Prerequisite: Admission to and enrollment in the Dental Hygiene Program. This is the first in a series of four courses designed to prepare the student for clinical dental hygiene practice. Content emphasis includes maintenance of aseptic technique/infection control, care and operation of dental equipment, identification and purpose of basic instrumentation skills, instrument sharpening, polishing agents and methods, topical fluoride application, entry level clinic forms and procedures, clinic duties, and clinical practice utilizing examination procedures and basic instrumentation techniques on student patient partners and periodontal typodonts/manikins. $63.00 Materials Fee – PAYABLE AT REGISTRATION.

DH 110 C  CLINICAL DENTAL HYGIENE  
6 Units  
One hour lecture and  
Three hours laboratory and  
Twelve hours clinic per week.  
CSU  
Prerequisite: Enrollment in the Dental Hygiene Program and successful completion of all first semester courses. This is the second in a series of four courses designed to prepare the student for clinical dental hygiene practice. Emphasis is placed on perfecting oral inspection and medical/dental health history documentation, and developing dental hygiene treatment plans. Additional course content includes: introduction to universal curet instrumentation and sharpening techniques, root debridement techniques, oral subgingival irrigation, gingival curettage, introduction to hoe and file instrumentation, introduction to ultrasonic instrumentation and air polishing. Clinical skills will be demonstrated and evaluated on clinical patients appointed in the Cypress College Dental Hygiene Clinic.

DH 113 C  GENERAL AND ORAL PATHOLOGY  
2 Units  
Two hours lecture per week.  
CSU  
Prerequisite: Enrollment in the Dental Hygiene Program and successful completion of all first semester courses. This course introduces students to concepts of oral pathology and specific pathologic processes, including inflammatory and immunologic defenses, as well as neoplastic, metabolic, inherited and developmental disturbances. A summary of each condition is presented and includes information to aid the Dental Hygienist in developing a clinically useful differential diagnosis.

DH 115 C  NUTRITION FOR DENTAL HYGIENE  
2 Units  
Two hours lecture per week.  
CSU  
Prerequisite: Current enrollment in the Dental Hygiene Program and successful completion of first semester courses. This course is designed to provide knowledge in nutrition and biochemistry. Instruction will emphasize the principles of nutrition, their application to dental health instruction, nutritional counseling, dental survey, and patient nutritional assessment.

DH 116 C  DENTAL MATERIALS/HYGIENISTS  
2 Units  
One hour lecture and  
Three hours laboratory per week.  
CSU  
Prerequisite: Enrollment in the Dental Hygiene Program and successful completion of all first semester courses. The structure, chemical and physical properties, and manipulation of materials used in dentistry will be covered. Laboratory application of dental materials and the relationship of dental materials to the oral environment is included. Emphasis will be placed on specific materials and functions delegated to the registered dental assistant and dental hygienist by the State of California. $25.00 Materials Fee – PAYABLE AT REGISTRATION.

DH 125 C  PERIO PATHOLOGY & THERAPY  
2 Units  
Two hours lecture per week.  
CSU  
Prerequisite: Enrollment in the Dental Hygiene Program and successful completion of all first semester courses. This course is designed to provide the dental hygiene student with current theory in periodontics. The healthy periodontium as well as the diseased states will be explored. New surgical concepts and techniques in periodontics will be discussed. The management of periodontics to clinical treatment will be emphasized.

DH 205 C  ORAL EMBRYOLOGY & HISTOLOGY  
3 Units  
(Formerly BIOL 234 C)  
Two hours lecture and  
Three hours laboratory per week.  
CSU  
Prerequisite: Admission to and enrollment in the Dental Hygiene Program. This course is an introduction to the microscopic characteristics of the tissues, histology, and embryology of the head and neck with an emphasis on the structure of the oral cavity.

DH 212 C  HEAD AND NECK ANATOMY  
2 Units  
(Formerly BIOL 235 C)  
Two hours lecture per week.  
CSU  
Prerequisite: Enrollment in the Dental Hygiene Program and successful completion of all first semester courses. This course is a study of the gross and anatomical structures of the head and neck. The relationship and function of the organs of the head and neck in the human body are studied, with an emphasis on structures and innervations of the oral cavity.
DH 220 C  CLINICAL DENTAL HYGIENE
6 Units
One hour lecture and
Sixteen hours laboratory per week.
CSU
Prerequisite: Enrollment In the Dental Hygiene Program and successful completion of all second semester courses. This is the third in a series of four courses designed to prepare the student for clinical dental hygiene practice. Lecture and clinical instruction will be applied by experience on clinical patients in the Cypress College Dental Hygiene facility and off campus clinical site, and/or an enriching facility. An emphasis will be placed on the assimilation and utilization of previous instruction and demonstration of progressive learning. This course also emphasizes the performance of those expanded duties in dental hygiene as allowed by the California State Dental Practice Act and the progressive development of professional and managerial skills. $23.00 Materials Fee – PAYABLE AT REGISTRATION.

DH 221 C  CLINICAL DENTAL HYGIENE
6 Units
One hour lecture and
Sixteen hours laboratory per week.
CSU
Prerequisite: Enrollment In the Dental Hygiene Program and successful completion of all third semester courses. This is the final course in clinical dental hygiene designed to prepare the student for clinical dental hygiene practice and to provide students advanced instruction in patient care. Lecture and clinical instruction will be applied by clinical experience on clinical patients in the Cypress College Dental facility and off campus clinical site, and/or an enriching facility. An emphasis will be placed on: (1) periodontal therapy, (2) supportive periodontal treatment, (3) expanded and supportive periodontal treatment, (4) expanded and supportive procedures, (5) treatment planning, (6) organization and implementation of a Student Research presentation/Table Clinic, and (7) the completion and presentation of a Case Presentation of extensive and comprehensive dental hygiene treatment of a patient.

DH 230 C  DENTAL SPECIALTIES
2 Units
Two hours lecture per week.
CSU
Prerequisite: Enrollment In the Dental Hygiene Program and successful completion of all third semester courses. This is a study of the dental hygienist's role within the various dental practices. Each dental specialty practice is studied to establish a proper perspective of dental hygiene in relationship to dentistry and to have a greater comprehension of total patient care.

DH 240 C  COMMUNITY ORAL HEALTH I
2 Units
Two hours lecture per week.
CSU
Prerequisite: Enrollment In the Dental Hygiene Program and successful completion of all second semester courses. This is the first of two courses designed to provide the student with the knowledge and experience necessary to work within the community in the area of public health. Emphasis will be placed on the understanding of developing a community health project, use of statistics, and the development of teaching strategies for use in the classroom. Students are expected to work with target groups within the community.

DH 241 C  COMMUNITY ORAL HEALTH II
2 Units
Two hours lecture per week.
CSU
Prerequisite: Enrollment In the Dental Hygiene Program and successful completion of all third semester courses. This course is the second of two courses in Community Oral Health to develop principles and practices of dental public health. Emphasis of instruction will be placed on community-wide problems such as water fluoridation and the delivery of care. Students will participate in target groups within the community.

DH 245 C  DENTAL JURISPRUDENCE
2 Units
Two hours lecture per week.
CSU
Prerequisite: Enrollment In the Dental Hygiene Program and successful completion of all third semester courses. This course offers a study of the fundamental factors necessary to conduct a well-regulated practice based on sound dental management principles within the legal and ethical framework of the State Dental Practice Act. Emphasis is placed on the historical aspects of dental hygiene, the ethical and legal responsibilities of the dental hygienist, interpersonal relations among members of the dental team, and patient-office relationships.

DH 248 C  MEDICAL/DENTAL EMERGENCIES
1 Unit
One hour lecture per week.
CSU
Prerequisite: Enrollment In the Dental Hygiene Program and successful completion of all third semester courses. This course will provide the student with a consolidation of information concerning medical/life threatening situations within the dental care setting. Early recognition of clinical signs and symptoms and emergency treatment of the condition will be included in this course.

DH 250 C  PHARMACOLOGY
2 Units
Two hours lecture per week.
CSU
Prerequisite: Enrollment In the Dental Hygiene Program and successful completion of all second semester courses. This course includes the principles of drug interaction with living tissue (pharmacodynamics) and the time course of drugs within living organisms (pharmacokinetics); drug effects on the cardiovascular, autonomic, and central nervous systems; drug management of anxiety, pain and infection as related to dental practice and the harmful aspects of drugs (toxicology).

DH 255 C  DENTAL ANESTHESIOLOGY
2 Units
One hour lecture and
Three hours laboratory per week.
CSU
Prerequisite: Enrollment In the Dental Hygiene Program and successful completion of all second semester courses. This course includes the theory and techniques of administration of local anesthesia and sedation in dentistry as related to the State Dental Practice Act. The student will administer local anesthesia and nitrous oxide-oxygen sedation in the clinical setting as a component of comprehensive patient care.
Diagnostic Medical Sonography

Division of Health Science

Division Dean – John Sciacca

Faculty
Nancy Corrales
Lynn Mitts

Counselors
Kelly Carter
Denise Vo

PROGRAM LEARNING OUTCOMES (PLOs)
Diagnostic Medical Sonography Program Goals
1. Students will have the knowledge and skills to competently and safely perform sonography procedures.
2. Students will develop the skills necessary to communicate effectively.
3. Students will use critical thinking and problem solving skills.
4. Students will evaluate the importance of professional development and growth.
5. The program will provide the community with entry level sonographers for employment in the healthcare setting.

DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM
PROGRAM MISSION STATEMENT
The Cypress College Diagnostic Medical Sonography program provides a high quality education to prepare a diverse population of students with entry levels skills needed to become competent and confident sonographers.

PROGRAM GOALS
1. Students will have the knowledge and skills to competently and safely perform sonography procedures.
2. Students will develop the skills necessary to communicate effectively.
3. Students will use critical thinking and problem solving skills.
4. Students will evaluate the importance of professional development and growth.
5. The program will provide the community with entry level sonographers for employment in the healthcare setting.

Program Effectiveness expected outcomes are:
a. Students will pass the national certification exam on the 1st attempt.
b. Students seeking employment will be gainfully employed within 6 months of graduation.
c. Students will complete the program.
d. Graduates will be satisfied with their education.
e. Employers will be satisfied with the performance of newly hired technologists.

Dentistry

DENTISTRY TRANSFER PROGRAM
Professional programs such as dentistry, medicine, pharmacy, optometry, physician assistant, physical therapy and veterinary medicine are most often graduate programs that require a bachelor degree or significant preparation prior to entering the program. The appropriate preparation varies according to the school and specific program. Students are advised to meet with a counselor to discuss options for their bachelor degree and the lower division requirements for the program and school of their choice.
After completing the clinical internship and receiving the completion certificate, the student will be eligible to apply for the certification examination administered by the American Registry of Diagnostic Medical Sonographers (ARDMS). The Diagnostic Medical Sonography program is accredited by the Joint Review Committee for Diagnostic Medical Sonographers (JRC-DMS) and the Commission on Accreditation of Allied Health Education Programs.

JRC-DMS
6021 University Blvd., Suite 500
Ellicott City, MD 21043
(651) 731-1582 www.jrcdms.org

MINIMUM STANDARDS TO APPLY
1. Eligibility for admission to Cypress College.
2. High school diploma or GED test, or the high school proficiency examination.
3. Minimum age of 17 years.
4. Present evidence of good physical and mental health, as determined by medical examination upon admission to program and prior to enrollment.
5. Overall GPA of 2.0 in all college classes taken.
6. Must have own transportation to all affiliated hospitals.
7. Eligibility for ENGL 100 C.
8. See “Prerequisites and Requirements” for specific course prerequisites needed to apply.

PREREQUISITES AND REQUIREMENTS
1. The following Foundation courses must be completed by the end of the spring semester with a minimum "C" grade in each course. Any course with a grade lower than a "C" may only be repeated twice.

2. Complete Foundation courses listed above OR completion of a Joint Review Committee on Education in Radiologic Technology approved program in Radiologic Technology and currently registered by the American Registry of Radiologic Technologists.
3. *DMS 060 C must be completed in the Summer session prior to enrollment into the Fall Semester of the Sonography Program.

ASSOCIATE IN SCIENCE DEGREE
DIAGNOSTIC MEDICAL SONOGRAPHY Program Code: 1C07840 ??????
The Department of Radiologic Technology will provide occupational training in ultrasound/medical sonography. The purpose of this instruction is to qualify the student for examination by the American Registry of Diagnostic Medical Sonographers and to prepare the student for gainful employment in ultrasound/medical sonography.

REQUIREMENTS

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>DMS 170 C</td>
<td>Sonography Physics</td>
</tr>
<tr>
<td>DMS 175 C</td>
<td>Abdomen Scanning</td>
</tr>
<tr>
<td>DMS 172 C</td>
<td>Sonography Externship</td>
</tr>
<tr>
<td>RADT 262 C*</td>
<td>Cross-Sectional Imaging</td>
</tr>
<tr>
<td>HS 165 C*</td>
<td>Ethical Choices in Health Care</td>
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<table>
<thead>
<tr>
<th>SEMESTER II</th>
<th>Units</th>
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<tbody>
<tr>
<td>DMS 176 C</td>
<td>Pathology and Small Parts</td>
</tr>
<tr>
<td>DMS 186 C</td>
<td>OB/GYN Sonography</td>
</tr>
<tr>
<td>DMS 207 C</td>
<td>Clinical Education I</td>
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<thead>
<tr>
<th>SUMMER INTERSESSION</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DMS 188 C</td>
<td>Doppler Techniques</td>
</tr>
<tr>
<td>DMS 217 C</td>
<td>Clinical Education II</td>
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<tr>
<th>SEMESTER III</th>
<th>Units</th>
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<tbody>
<tr>
<td>DMS 227 C</td>
<td>Clinical Education III</td>
</tr>
<tr>
<td>DMS 210 C</td>
<td>Sonography Review</td>
</tr>
<tr>
<td>Total Units</td>
<td>32½</td>
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</table>

*May be taken prior to enrollment in the program.

APPLICATION AND SELECTION PROCEDURE
1. A separate application, in addition to the college application, is required for admission into the Diagnostic Medical Sonography Program.
2. Application must be completed in person at the Health Science Application Office in the month of February.
3. All documents (GED and/or high school and college transcripts) must be returned to the Health Science Application Office by March 15.
4. Copies of ARRT Registry, CRT Licensure and Certificate of Completion from JRC-ERT accredited Radiologic Technology program must be attached with application if applicable.
5. Practical Radiologic Technology years of experience must be verified by completion of the work experience form by the employer, if applicable.
6. An appointment with Health Science counselor or attendance at a program information meeting is recommended to discuss selection criteria and deadlines for application process. Selection criteria will award points to practical and formal radiologic technology experience as well as grade point average in program prerequisites. Selection criteria is subject to change.
7. Class enrollment is based on the number of approved clinical education centers available. Student capacity is also determined by the Joint Review Commission in Diagnostic Medical Sonographers.
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 pluralism 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.

Required courses: Units
All courses of the Certificate Program 32½
General Education Graduation Requirements 25
Total Units Required 57½

Note: All General Education Graduation Requirements units may be taken prior to enrollment in the program or at the completion of the Certificate Program.

# DIAGNOSTIC MEDICAL SONOGRAPHY

| CERTIFICATE Program Code: 1C21115 |
| Required Courses are listed in suggested sequence: |
| Course # | Title | FALL SEMESTER Units |
| DMS 170 C | Sonography Physics | 3 |
| DMS 175 C | Abdomen Scanning | 4 |
| RADT 207 C | Clinical Education – I | 4 |
| "RADT 262 C | Cross-Sectional Imaging | 1 |
| SPRING SEMESTER Units |
| DMS 176 C | Pathology and Small Parts | 3 |
| DMS 186 C | OB/GYN Sonography | 4 |
| DMS 207 C | Clinical Education I | 3 |
| INTERSESSION Units |
| DMS 188 C | Doppler Techniques | 2 |
| DMS 217 C | Clinical Education II | 4 |
| Total Units | 32½ |

## Diagnostic Medical Sonography (DMS)

### DMS 060 C  INTRODUCTION TO SONOGRAPHY

(formerly RADT 060 C)

2 Units (May be taken for credit 4 times)

One and one-half hours lecture and
One and one-half hours laboratory per week.

NON-DEGREE CREDIT

Pass/No Pass/Letter Grade Option

Prerequisite: Satisfactory completion of RADT 142 C, RADT 153 C, HS 145 C, HS 147 C, BIOL 210 C, ENGL 100 C, MATH 040 C, CIS 111 C with "C" or better. This course is designed for the student interested in pursuing the sonography program and introduces fundamental sonography theory with emphasis on definition of common ultrasound terminology and ultrasound equipment. The student will relate this basic theory to preparatory sonographic scanning techniques which will include manipulation of the sonographic transducer to determine anatomic presentation. The student will learn rudimentary operation of the sonographic machine in an affiliated hospital setting. $14.00 Materials Fee – Payable at Registration.

### DMS 170 C  SONOGRAPHY PHYSICS

3 Units

Three hours lecture per week.

CSU

Prerequisite: Admission into the Diagnostic/Medical Sonography Program and a minimum grade of "C" in RADT 142 C, MATH 040 C, CIS 111 C, DMS 060 C, HS 147 C, and completion of or concurrent enrollment and a minimum grade of "C" in HS 165 C and RADT 262 C. Corequisite: DMS 175 C and DMS 172 C. This course will provide lecture and demonstrations covering the areas of acoustical physics, propagation principles, transducers, machine instrumentation, hemodynamics, harmonics, doppler principles, biological effects, artifacts, and quality control.

### DMS 172 C  SONOGRAPHY EXTERNSHIP

1 Unit

Eight hours/week of clinical directed practice.

CSU

Prerequisite: Admission into the Diagnostic/Medical Sonography Program and a minimum grade of "C" in DMS 060 C, CIS 111 C, ENGL 100 C, COMM 050 C, BIOL 210 C, HS 147 C, HS 145 C, RADT 153 C, RADT 142 C, MATH 040 C and completion of or concurrent enrollment and a minimum grade of "C" in HS 165 C and RADT 262 C. Corequisite: DMS 175 C and DMS 170 C. This course is designed to acclimate the sonographers student to the hospital setting, sonography department, and the sonography profession. The student is expected to complete 140 hours of clinical training at an assigned clinical facility. Topics include hospital orientation, HIPPA regulations, SDMS code of ethics, sonography ergonomics, and basic scanning techniques and protocols.

### DMS 175 C  ABDOMINAL SONOGRAPHY

4 Units

Three hours lecture and
One and one-half hour laboratory per week.

CSU

Prerequisite: Admission into the Diagnostic/Medical Sonography Program and minimum grades of "C" in RADT 142 C, RADT 153 C, HS 145 C, HS 147 C, BIOL 210 C, COMM 050 C, ENGL 100 C, CIS 111 C, MATH 040 C, and DMS 060 C. Completion of or concurrent enrollment and a minimum Grade of "C" in RADT 262 C and HS 165 C. Corequisite: DMS 170 C and DMS 172 C. This course will provide a study of the clinical applications of abdomen sonography. It will include abdominal vasculature; liver; gallbladder and biliary system; pancreas; spleen; and kidneys. Interpretation of clinical laboratory tests, related clinical signs and symptoms, and normal and abnormal sonographic patterns will be discussed. This course includes a lab section on basic scanning techniques and protocol.

### DMS 176 C  PATHOLOGY AND SMALL PARTS

3 Units

One and one-half hours lecture per week.

CSU

Prerequisite: DMS 175 C, RADT 262 C, DMS 170 C, DMS 172 C and HS 165 C with minimum grades of "C". Corequisites: DMS 186 C and DMS 207 C. This course will discuss the manifestations of abdominal pathology and disease conditions and their relevance to sonographic procedures including hemodynamic changes. The student will describe abdomen scanning techniques and procedures appropriate for the disease process. Normal anatomy, scanning technique, and pathology of small parts is included as well as neonatal imaging. The course will support the student in the clinical phase of sonographic training. Sonographic technique and actual pathologic cases will be discussed.
DMS 186 C  OB/GYN SONOGRAPHY
4 Units
Three hours lecture per week
CSU
Prerequisite: DMS 170 C, RADT 262 C, DMS 175 C, DMS 172 C, and HS 165 C with minimum grades of "C." Corequisite: DMS 176 C and DMS 186 C. Obstetric/Gynecology sonography is a study of the pregnant and non-pregnant female reproductive system. This includes an assessment of fetal gestational age, fetal anatomy and pathology, as well as, associated maternal conditions. Gynecological sonography includes normal female anatomy along with pathological processes. Topics of discussion include related clinical symptoms, sonographic appearances, scanning techniques and protocols, and laboratory tests. This course includes a demonstration section on basic scanning techniques and protocols.

DMS 188 C  DOPPLER TECHNIQUES
2 Units
One and one-half hours lecture per week
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: DMS 176 C, DMS 186 C and DMS 207 C with minimum grades of "C." Corequisite: DMS 217 C. This course includes vascular scanning techniques related to carotid, venous, and abdomen sonographic exams.

DMS 207 C  CLINICAL EDUCATION-I
3 Units
Twenty-four hours/week of clinical directed practice.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: Admission into the Diagnostic/Medical Sonography Program and DMS 172 C, DMS 175 C, RADT 262 C, HS 165 C, and DMS 170 C with minimum grades of "C." Corequisite: DMS 176 C and DMS 186 C. This course offers 420 hours of clinical experience at an affiliated hospital/medical center. This course will provide basic instruction and scanning experiences in abdomen sonography. The student will be able to demonstrate the ability to perform sonographic examinations of the abdomen according to the protocols established by the program and clinical education center utilizing sonography equipment.

DMS 208 C  CLINICAL EDUCATION-II
4 Units
Thirty-two hours/week of directed practice for ten weeks.
CSU
Prerequisite: DMS 207 C, DMS 186 C and DMS 176 C with minimum grade of "C." Prerequisite: DMS 188 C. This course offers 320 hours of clinical training at an affiliated hospital/medical center. This course will provide the basic instruction and scanning experiences in obstetrics and gynecology sonography. The student will be able to demonstrate the ability to perform sonographic examinations of the gravid and non gravid pelvis according to the protocols established by the program and clinical education center utilizing sonography equipment with both transabdominal and endocavity transducers.

DMS 209 C  CLINICAL EDUCATION-III
3 Units
Thirty-two hours of clinical directed practice
CSU
Prerequisite: DMS 188 C and DMS 208 C with a minimum grade of "C." Corequisite: DMS 210 C. This course offers 560 hours of clinical experience at an affiliated hospital/medical center. This course will provide basic instruction and scanning experiences in breast, thyroid, scrotum, and doppler sonography. The student will be able to demonstrate the ability to perform sonographic examinations of small parts according to the protocols established by the program and clinical education center utilizing sonography equipment.

DMS 210 C  REVIEW SEMINAR
2 Units
Two hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: Satisfactory completion of DMS 188 C and DMS 217 C with a minimum grade of "C." Corequisite: DMS 227 C. This course will prepare the student to enter the workforce by combining all skills acquired during didactic and clinical training. This course correlates and analyzes information pertaining to ultrasound case studies. The student will achieve an indepth comprehension and an increased level of understanding of clinical symptoms, sonographic patterns, alternative imaging procedures, and technical pitfalls associated with a diagnostic ultrasound exam. Review of abdomen, small parts, physics, obstetric and gynecology will be included to help prepare the student for the American Registry of Diagnostic Medical Sonography test.

DMS 217 C  CLINICAL EDUCATION II
(formerly DMS 208)
4 Units
Thirty-two hours/week of directed practice for ten weeks.
CSU
Prerequisite: DMS 207 C, DMS 176 C and DMS 186 C with a minimum grade of "C." This course offers 320 hours of clinical experience at an affiliated hospital/medical center. This course will provide basic instruction and scanning experiences in breast, thyroid, scrotum, and doppler sonography. The student will be able to demonstrate the ability to perform sonographic examinations of small parts according to the protocols established by the program and clinical education center utilizing sonography equipment.

DMS 227 C  CLINICAL TRAINING III
(formerly DMS 209) effective Fall 2010
4 Units
Thirty-two hours/week of clinical directed practice.
CSU
Prerequisite: DMS 188 C and DMS 217 C with a minimum grade of "C." This course offers 560 hours of clinical training at an affiliated hospital/medical center. This course will provide the basic instruction and scanning experiences in obstetrics and gynecology sonography. The student will be able to demonstrate the ability to perform sonographic examinations of the gravid and non gravid pelvis according to the protocols established by the program and clinical education center utilizing sonography equipment with both transabdominal and endocavity transducers.

Drafting – See Engineering Technology (ENGT)
Economics

Division of Social Science

Division Dean – Nina DeMarkey

Faculty
Fola Odebunmi
Parwinder Sidhu

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

BUSINESS ECONOMICS CERTIFICATE  Program Code 1K17172
Combining economics principles with business practices, this certificate program provides students with the necessary knowledge to make informed financial decisions. Students will gain an understanding of supply and demand and resource allocation issues, marketplace competitive factors, consumer purchasing patterns, and money-management and investment strategies.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 105 C</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
</tbody>
</table>
| or
| ECON 105HC | Honors Principles of Economics     | (3)   |
| MGT 161 C  | Introduction to Business           | 3     |
| ECON 130 C | Consumer Economics                 | 3     |
| or
| MKT 210 C  | Consumer Behavior                  | (3)   |
| MGT 101 C  | Personal Finance                   | 3     |
| or
| MGT 102 C  | Financial Literacy                 | (3)   |

Total Units Required 12

ECONOMICS TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Economics (ECON)

ECON 100 C  PRINCIPLES OF ECONOMICS-MACRO
3 Units
Three hours lecture per week.
Credit by Examination
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 040 C with a minimum grade of “C”. The course concentrates on macroeconomic analysis. Topics emphasized are aggregate supply/demand concepts, economic aggregates and the overall functioning of the American economy, with special emphasis on the role of the government. The course includes national income accounting, employment theory, business cycles, fiscal and monetary policy and economic growth. Duplicate credit not granted for ECON 100HC.

ECON 100HC HONORS PRINCIPLES OF ECONOMICS
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 040 C with a minimum grade of “C”. This course is an enhanced study of macroeconomics, focusing on the structure and operation of the American economy. Special topics include simulated practice of fiscal and monetary policy, and website updates of statistical economics. Duplicate credit not granted for ECON 100 C.

ECON 105 C  PRINCIPLES OF ECONOMICS-MICRO
3 Units
Three hours lecture per week.
Credit by Examination
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 040 C with a minimum grade of “C”. This course concentrates on microeconomic analysis. Topics emphasized are basic structure of the United States economic system, and interrelationships within this structure. The course includes a study of supply and demand, price determination, the market models, resource pricing and allocation, comparative economic systems, and foreign trade/exchange analysis. Duplicate credit not granted for ECON 105HC.

ECON 105HC HONORS PRINCIPLES OF ECONOMICS
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 040 C with a minimum grade of “C”. This course is an enhanced study of microeconomic analysis with special attention given to web-based interactive material on topics such as: price determination; the market models; comparative economic analysis; and international trade and finance. Duplicate credit not granted for ECON 105 C.
ECON 110 C  SURVEY OF ECONOMICS
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Economics 110 C is a survey of the American economic system, with the purpose of developing a level of economic education sufficient for a citizen’s understanding of economic issues. Includes price determination, the role of government in economic activity, and economic relations of the United States with foreign nations. Economics 110 C does not meet the course requirements for majors in economics and business administration. No UC credit if taken after ECON 100 C or ECON 105 C.

ECON 130 C  CONSUMER ECONOMICS
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
The student will examine practical consumer choices involving gathering information, spending money, saving/investing and other consumer choices. Emphasis will be given to daily consumer applications of beneficial consumer behavior.

ECON 260 C  ECONOMIC GEOGRAPHY
3 Units
(Same as GEOG 260 C)
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
This course is an investigation and interpretation of the world’s economic organization, its natural resources, raw materials, crops and crop production, manufacturing and service industries, new trends in producing, and the changing centers of production and consumption.

ECON 298 C  ECONOMICS SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion type course developed on a particular limited problem or topic of interest to students. It is designed for able students who wish to increase their knowledge of a particular topic concerning which no other regular class is offered. A paper or group activity may be required. Credit may range from ½ unit to 12 units. Consult class schedule for the offerings in a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

ECON 299 C  ECONOMICS INDEPENDENT STUDY
1 Unit (May be taken for credit 3 times)
Varying hours of scheduled conferences per week according to instructor.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. Independent study is for able students who wish to extend their knowledge of a particular area through individual research and study. It is thought that topics might develop out of a curiosity stimulated in a regular class. The student would then contact the supervising instructor to develop a contract for his/her particular interest so that they could learn more regarding their special topic.

Education
Division of Social Science

Division Dean – Nina DeMarkey

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

THE PARAPROFESSIONAL IN EDUCATION
CERTIFICATE  Program Code: 1A16915
This certificate will provide qualified personnel with specialized expertise to assist in classrooms and in the community, that support populations labeled with disabilities. It will help school districts meet federal requirements for Paraprofessionals already hired, and future teachers. Vocational and academic coursework are integrated into a lower division Certificate program that will satisfy paraprofessional requirements as well as those needed for an AA Degree and transfer to university credential programs.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 139</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PSY 240</td>
<td>Child Development &amp; Education</td>
<td>(3)</td>
</tr>
<tr>
<td>HUSR 200</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>EDU 204</td>
<td>Intro to Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDU 208</td>
<td>Children w/disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDU 209</td>
<td>Role of the Paraprofessional</td>
<td>3</td>
</tr>
<tr>
<td>EDU 211</td>
<td>Diverse Learners Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required 18

Education (EDU)

EDU 200 C  ELEMENTARY SCHOOL TEACHING
3 Units
Three hours lecture per week and 45 hours TBA of required field work in K-6 elementary classrooms per semester.

CSU
Advisory: Completion of COUN 110 C or COUN 120 C, or at least one year as a paraprofessional in a public school setting. This course provides an overview of the teaching profession for students who are considering a career in elementary school teaching. The course will address the philosophies of education, the history of education in America, the sociology of education, contemporary issues in education, and the role of education in American society. In addition, students will gain experience through 45 hours of required fieldwork in K-6 elementary classrooms. Students will divide the 45 hours of required fieldwork as follows: 20 hours in an ELL (English Language Learners) classroom, 15 additional hours will be spent at the primary school and the last 10 hours will be spent in a second elementary school.
Electricity
Division of Career Technical Education and Economic Development

Division Dean – Steve Donley

Faculty
Counselor
Jane Jepson

Electricity (ELEC)
ELEC 051 C  BASIC ELECTRICITY
2 Units
Two hours lecture and
Two hours laboratory per week.
Pass/No Pass/Letter Grade Option
This course provides a non-mathematical treatment of AC and DC circuits including the following: current, voltage, resistance, power, magnetism, relays, motors, generators, automotive electrical system, rectifying circuits, and the use of the oscilloscope and related test equipment. This course is not open to those who have completed a previous college course in electricity or electronics and cannot be counted toward the electronic engineering technology major.

Electronics – See Engineering Technology (ENGT)
ENGINEERING TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Engineering (ENGR)

ENGR 102 C  ENGINEERING GRAPHICS
3 Units
Two hours lecture and
Four hours laboratory per week.
UC/CSU
This is an introductory course which utilizes drafting and the CAD system for engineering applications. The course incorporates elementary principles associated with the board drawing and the various menu and command structures in computer-assisted drafting (CAD) in order to develop solutions to 2D and 3D design problems. Topics included are drawing of points, lines, planes, plane intersections, orthographic projection, dimensioning, line types, tolerances, file management, and layering.

ENGR 110 C  INTRODUCTION TO ENGINEERING
(Same as ENGT 110 C)
2 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU
Prerequisite: MATH 040 C. This course is an introduction to engineering as profession and its associated career responsibilities and opportunities. The course includes a selection of computational and mathematical methods and tools to be found useful in problem solving. Dimensional analysis, graphical techniques, and design theory in engineering analysis is also studied. The course includes the application of engineering and scientific problem methods to introductory mechanics and electricity. This course also meets requirements for credit in Engineering major. Duplicate credit not granted for ENGT 110 C.

ENGR 201 C  STATICS
3 Units
Three hours lecture per week.
UC/CSU
Prerequisite: ENGR 110 C, PHYS 201 C or PHYS 221 C. This course includes the study of force systems, equilibrium conditions, and analytical vector mechanics as applied to practical engineering problems. It also includes force and moment equilibrium analysis of solid bodies, beams, machine members, and structures in two and three dimensions, elementary bending moment and shear analysis of simple beams, distributed beam loading, centroids, friction forces, fluid forces on submerged surfaces, virtual work, and moment of inertia.
MATH

010 C

015 C

020 C

030 C

040 C

Both

141 C

142 C

Both

150BC

150AC

CONCURRENT OK

CONCURRENT OK

250AC

250BC

PHYSICS

130 C or High School Physics Fa/Sp/Su

Need this Physics for all Courses

ENGT/ENGR

110 C Fa

102 C

201 C Fa/Sp/Su

Courses
Engineering Technology

Division of Science/Engineering/Mathematics

Division Dean – Richard Fee

Faculty
Brinda Subramaniam

Counselors
Deidre Porter

ASSOCIATE IN SCIENCE DEGREE
DRAFTING ENGINEERING TECHNOLOGY Program Code: 1S07831
The primary emphasis is to prepare the student for employment. Students must complete 40 units from the core section and 25 units from General Education.

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 percent 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.

ENGR 205 C  ADVANCED ENGINEERING AUTOCAD
3 Units (May be taken for credit 2 times)
Two hours lecture and
Four hours laboratory per week.
UC/CSU
Prerequisite: ENGT 104 C and ENGR 102 C. This is an advanced course in the use of Computer Aided Design (CAD) systems for projects that emphasize dimensioning and detailing for interchangeable assemblies and 3-D working drawings for mechanical, electrical, and aerospace applications. $4.00 Materials Fee – PAYABLE AT REGISTRATION.

ENGR 210 C  ELECTRIC CIRCUITS
4 Units
Three hours lecture and
Three hours laboratory per week.
UC/CSU
Prerequisite: PHYS 222 C, MATH 250AC, and ENGR 110 C. The course consists of an analysis of circuits under steady state and transient conditions; network theorems, phasors and steady-state sinusoids.

ENGR 105 C  ELECTRICAL ENGINEERING
3 Units
Three hours laboratory and
Three hours laboratory per week.
UC/CSU
Prerequisite: PHYS 222 C, MATH 250AC, and ENGR 110 C. This is an introduction to the electrical engineering field with an emphasis on electrical circuit theory and analysis. $4.00 Materials Fee – PAYABLE AT REGISTRATION.

ENGINEERING TECHNOLOGY TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Other specializations include: Construction, Manufacturing, and Quality Assurance.

Engineering Technology (ENGT)

ENGT 101 C  TECHNICAL DRAWING
3 Units
Two hours lecture and
Four hours laboratory per week.
CSU
Prerequisite: MATH 010 C, or equivalent high school mathematics, with a grade of "C" or better. Principles of graphical drawing for students who have no background in this subject area are studied. This course covers the proper use of drawing instruments, lettering, sketching, multiview (orthographic projections), geometric constructions, isometrics and pictorials, sections, auxiliary views, baseline dimensioning with tolerances, weight calculations, notes and bill of materials composition.

ENGT 104 C  COMPUTER AIDED DESIGN
3 Units
Two hours lecture and
Four hours laboratory per week.
CSU
Prerequisite: ENGT 101 C, or employed in the field. This is an introduction to Computer Aided Design using AutoCAD systems and techniques with emphasis on using a menu driven software package for creating drawing data files of schematics, multiview (orthographic projections), sections, isometrics, baseline dimensioning with tolerances, notes, and bill of materials composition. $4.00 Materials Fee – PAYABLE AT REGISTRATION.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Schedule</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGT 110 C</td>
<td>INTRODUCTION TO ENGINEERING</td>
<td>2</td>
<td>Lecture</td>
<td>(Same as ENGR 110 C)</td>
</tr>
<tr>
<td></td>
<td>2 Units</td>
<td></td>
<td></td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option. UC/CSU. Prerequisite MATH 040 C. This course is an introduction to engineering as a profession and its associated career responsibilities and opportunities. The course includes a selection of computational and mathematical methods and tools to be found useful in problem solving. Dimensional analysis, graphical techniques, and design theory in engineering analysis is also studied. The course includes the application of engineering and scientific problem methods to introductory mechanics and electricity. This course also meets requirements for credit in Engineering major. Duplicate credit not granted for ENGR 110 C.</td>
</tr>
<tr>
<td>ENGT 140 C</td>
<td>AC &amp; DC CIRCUITS I</td>
<td>4</td>
<td>Lecture</td>
<td>Three hours lecture and laboratory per week. Pass/No Pass/Letter Grade Option, Credit by Examination. CSU. Prerequisite: MATH 040 C may be taken concurrently. This is an introductory course in AC and DC circuits, with emphasis on the measurement of electrical quantities using equipment such as the voltmeter, ammeter, ohmmeter, capacitor-checker, oscilloscope, impedance bridge, potentiometer, and wattmeter. Also introduced are some basic electronic circuits using solid-state devices and the use of the transistor tester. This course is designed for those wishing to continue beyond ELEC 051 C or as the first course in an electronic engineering technology program. It is also a required course for all engineering technology students.</td>
</tr>
<tr>
<td>ENGT 205 C</td>
<td>ADVANCED ENGINEERING AUTOCAD</td>
<td>3</td>
<td>Lecture</td>
<td>(May be taken for credit 2 times) Two hours lecture and four hours laboratory per week. CSU. Prerequisite. ENGT 104 C and ENGR 102 C. This is an advanced course of Computer Aided Design CAD (AutoCAD 2000) systems that emphasize the use of surfaces, surfaces of revolution, solids (primitives) and extrusions techniques to create 3D working drawings. To convert 3D drawings by layout methods to 2D drawings that emphasize baseline dimensioning with tolerances, notes, weights and bill of materials. To write unique graphical programs by using LISP. $4.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>ENGT 299 C</td>
<td>ENGR TECHNOLOGY IND STUDY</td>
<td>½ - 2</td>
<td>Lecture</td>
<td>Variable Unit Class (May be taken for credit 4 times) Hours and topics by arrangement with instructor. CSU. Prerequisite: Approved Independent Study Learning Contract. This course is for able students who wish to extend their knowledge of a particular area of engineering technology (electronics, mechanics, etc.) through individual research, study and laboratory work. Students may select their own topics or be assigned a project to work on under supervision.</td>
</tr>
</tbody>
</table>
Students are advised to take English classes according to scores on the following test:

**COLLEGE TEST FOR ENGLISH PLACEMENT (CTEP)**
The CTEP is designed to measure the English skills of native speakers of English. It is required for proper placement in English courses. Exemptions are: completion of an AA degree or higher, enrollment in one class that has no prerequisite; transcripts/grade reports showing completion of college English with a grade of "C" or better. The CTEP may not be used for placement in ESL courses.

Students with appropriate scores on the CTEP will be advised to take ENGL 100 C (College Writing). Students needing additional fundamental work will be advised to take either ENGL 057 C (Reading and Writing I), ENGL 058 C (Reading and Writing II), or ENGL 060 C (Preparation for College Writing). Students enrolled in pre-English 100 C classes must earn at least a “C” grade in ENGL 060 C or a grade of “C” in ESL 186 C to be eligible for enrollment in ENGL 100 C. All students are encouraged to complete their English coursework as early as possible in their educational programs.

Students enrolled in core classes will be required to write an essay on the first day of instruction to verify skill level and assessment placement score.

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**LEARNING CENTER**
The Learning Center, located in the Library Learning Resources Center, 1st Floor, provides students with the opportunity to improve their learning skills as a way of becoming more successful college students. The Center offers a wide variety of tutorial packages. Students may drop in on their own or be referred by instructors and counselors.

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**English (ENGL)**

**PLACEMENT IN ENGLISH COMPOSITION CLASSES**
Students are placed in English composition classes according to test scores on the College Test for English Placement (CTEP). Non-native English speakers should take the CELSA Test (see English as a Second Language course program). Students are strongly advised to take a placement test prior to their first registration at Cypress College.

Students with appropriate CTEP scores will be placed in ENGL 100 C (College Writing). Students needing additional fundamental work will be placed in either ENGL 057 C (Reading and Writing I), ENGL 058 C (Reading and Writing II), or ENGL 060 C (College Writing Preparation). AT THE FIRST CLASS MEETING ALL STUDENTS WILL BE REQUIRED TO WRITE A SHORT COMPOSITION IN ORDER TO CONFIRM APPROPRIATE PLACEMENT. ENGL 057 C and ENGL 058 C students’ reading comprehension skills will also be evaluated.

ENGL 060 C students must earn at least a “C” grade to be eligible for ENGL 100 C; ESL 186 C students must earn a “C” for eligibility.

All students are encouraged to fulfill English course requirements as early as possible in their college programs.

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**READING PROFICIENCY EXAMINATION**
The CYPRESS COLLEGE READING PROFICIENCY EXAMINATION, which satisfies the Reading Proficiency Graduation Requirement for the Associate Degree, will be administered by the Assessment Center. Refer to the Class Schedule titled, STEP TWO, ENGLISH ASSESSMENT. Proficiency in reading may also be satisfied by receiving a “C” or better in ENGL 096 C, ENGL 102 C, or ENGL 106 C, or by CSU General Education Certification of IGETC certification. No units are given for passing the Reading Proficiency Examination, nor is the total number of units required to complete the Associate Degree lowered. Students who meet the area requirement by the proficiency exam are still required to satisfy the 60-unit requirement for graduation. A student may attempt to pass the proficiency exam only one time after completion of ENGL 100 C or equivalent.

**ENGL 027 C  BASIC STUDY SKILLS**
3 Units
*Three hours lecture per week.*
*Pass/No Pass/Letter Grade Option*
*NON-DEGREE CREDIT*
The purpose of this course is to assist students with limited academic backgrounds in experiencing college success by taking responsibility for their college experience. Intensive practice and guidance in campus orientation, goal setting, time management, listening and note taking, textbook reading, concentration, memory strategies, and test taking are provided.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 057 C</td>
<td>READING AND WRITING I</td>
<td>4</td>
<td>Four hours lecture per week. Pass/No Pass/Letter Grade Option</td>
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<td></td>
<td></td>
<td>NON-DEGREE CREDIT</td>
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<td>Prerequisite: Student must have appropriate score on CTEP Assessment.</td>
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<td>This course is designed for first semester college students and emphasizes</td>
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<td>basic instruction in reading and writing, including such topics as</td>
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<td></td>
<td>comprehension, vocabulary development, reading efficiency, study</td>
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<td>techniques, and basic composition. Individualized instruction is provided.</td>
</tr>
<tr>
<td>ENGL 058 C</td>
<td>READING AND WRITING II</td>
<td>4</td>
<td>Four hours lecture per week. Pass/No Pass/Letter Grade Option</td>
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<td>NON-DEGREE CREDIT</td>
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<td>Prerequisite: Completion of ENGL 057 C with a “C” or better, or</td>
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<td></td>
<td>acceptable score on the placement test. This course is designed to</td>
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<td>prepare students for ENGL 060 C and for the demands of college reading and</td>
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<td>writing. It emphasizes a comprehensive approach to reading and writing and</td>
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<td></td>
<td>includes such topics as: academic comprehension, vocabulary development,</td>
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<td>and basic academic composition. Individualized instruction is included.</td>
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<tr>
<td>ENGL 060 C</td>
<td>COLLEGE WRITING PREPARATION</td>
<td>3</td>
<td>Four hours lecture per week. Pass/No Pass/Letter Grade Option</td>
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<td>NON-DEGREE CREDIT</td>
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<td>Prerequisite: Acceptable score on placement test, ENGL 058 C with a “C” or</td>
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<td>better, or ESL 186 C with a grade of “C” or better. The course is designed</td>
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<td></td>
<td>to prepare students for ENGL 100 C. The emphasis is on expository writing</td>
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<td></td>
<td>of the essay including paragraph structure. The fundamentals of English</td>
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<td>written expression are reviewed.</td>
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<tr>
<td>ENGL 095 C</td>
<td>EFFECTIVE WRITING</td>
<td>3</td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option</td>
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<td></td>
<td>Prerequisite: Eligibility for ENGL 060 C. This is a college level course</td>
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<td></td>
<td>in written communication designed for students majoring in vocational and</td>
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<td>technical fields. It is designed to develop reading, critical thinking,</td>
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<td>and writing strategies necessary for the job market and academic success and</td>
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<td>it fulfills the written communication requirement for the AA or AS degree</td>
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<td>and also for any vocational certificate available through the college.</td>
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<tr>
<td>ENGL 096 C</td>
<td>COLLEGE READING STRATEGIES</td>
<td>3</td>
<td>Three hours lecture and</td>
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<td>Pass/No Pass/Letter Grade Option</td>
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<td></td>
<td>Prerequisite: Eligibility for ENGL 060 C or acceptable score on the</td>
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<td>placement test. This course is designed to prepare students for the</td>
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<td>demands of college academic reading, i.e., college textbooks, professional</td>
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<td>journals, and supplemental reading in content areas, and for the demands</td>
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<td>of technical reading in the workplace. Emphasis is placed on acquiring,</td>
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<td>applying, adapting, and evaluating effective reading and writing strategies</td>
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<td>which facilitate optimum learning in the content area classes, as well as</td>
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<td>developing general and specialized vocabulary and the writing skills</td>
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<td>required for essay exams, abstracts of professional journal articles, and</td>
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<td>critical analyses of content area supplemental reading.</td>
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</table>

**Completion of this course satisfies the Cypress College Associate Degree Graduation Reading Proficiency Requirement.**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>ENGL 097 C</td>
<td>MULTICULTURAL LITERATURE</td>
<td>3</td>
<td>Three hours lecture per week.</td>
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<td>AA GE, CUL DIV</td>
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<td>The course is a study of multicultural literature, by both immigrant and</td>
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<td>native American writers, which explores varied responses - ethnic, gender,</td>
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<td>and regional - in the cultural context of a diverse country. Students</td>
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<td>critically analyze a variety of literary sources, including such genres as</td>
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<td>fiction, drama, expository writing - essays, journals, autobiography,</td>
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<td></td>
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<td>letters - and other less traditional literary forms - tales, chants, and</td>
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<td>rituals. The course is designed to enrich students’ lives by exploring the</td>
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<td>multicultural literary sources of America that contribute to the cultural</td>
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<td>history and development of contemporary American society. Not open to</td>
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<td>students with credit in ENGL 247 C.</td>
</tr>
<tr>
<td>ENGL 098 C</td>
<td>LANGUAGE ARTS SEMINAR</td>
<td>½ - 12</td>
<td>(Variable Unit Class) (May be taken for credit 1-4 times)</td>
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<td>Units</td>
<td>Zero to twelve hours lecture and</td>
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<td>Zero to twenty-four hours laboratory per week.</td>
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<td>Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard</td>
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<td>Letter Grade</td>
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<td>Prerequisite: May be required. Corequisite: May be required. Advisory:</td>
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<td>May be required. This seminar is for students who wish to extend their</td>
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<td>knowledge of English, reading, and study skills through small group</td>
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<td>discussion. Fees may be required – PAYABLE AT REGISTRATION.</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>ENGL 100 C</td>
<td>COLLEGE WRITING</td>
<td>3</td>
<td>Four hours lecture per week. UC Credit Limitation/CSU, AA GE, CSU GE, IGEC</td>
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<td>Prerequisite: Acceptable score on placement test or ENGL 060 C with a</td>
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<td>grade of “C” or better. ENGL 095 C with a grade of “C” or better or ESL</td>
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<td>186 C with a grade of “C” or better. This course is a college level course</td>
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<td>in written communication. It is designed to develop reading, critical</td>
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<td>thinking, and writing strategies necessary for academic success. The</td>
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<td>emphasis is on writing expository essays. The course requires the use of</td>
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<td>research and documentation skills. Duplicate credit not granted for ENGL 100HC.</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>ENGL 100HC</td>
<td>HONORS COLLEGE WRITING</td>
<td>3</td>
<td>Four hours lecture per week. UC Credit Limitation/CSU, AA GE, CSU GE, IGEC</td>
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<td>Prerequisite: Acceptable score on placement test or ENGL 060 C with a</td>
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<td></td>
<td>grade of “C” or better or ENGL 095 C with a grade of “C” or better, or ESL</td>
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<td></td>
<td>186 C with a grade of “C” or better. This course is a college level course</td>
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<td>enhanced for Honors students. The emphasis is on reading and writing</td>
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<td>expository essays. The course will develop increased critical thinking,</td>
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<td>reading and writing skills. The class will be conducted as a seminar and</td>
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<td>will require a significant research project that uses correct documentation</td>
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<td>skills. Duplicate credit not granted for ENGL 100 C.</td>
</tr>
</tbody>
</table>
ENGL 102 C  INTRODUCTION TO LITERATURE
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, RDG
Prerequisite: ENGL 100 C with a minimum grade of "C". This course is a continuation of ENGL 100 C. It builds from the inferential reading and expository writing of the first semester course to demonstrate reading comprehension as well as composition of the analytical and critical essay. The content introduces students to techniques and major authors of narrative fiction, drama, and poetry, providing them with an opportunity to enrich their lives, enhance their understanding of the human condition, and develop an appreciation of literature.

ENGL 103 C  CRITICAL REASONING AND WRITING
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Prerequisite: ENGL 100 C with a grade of "C" or better. This course is designed to develop critical thinking, reading and writing skills beyond the level achieved in ENGL 100 C. The course will focus on the development of logical reasoning and analytical and argumentative writing skills.

ENGL 104 C  CRITICAL ANALYSIS & LITERATURE
4 Units
Four hours of lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: ENGL 100 C with a grade of "C" or better. This course is a survey of the development of Western culture from the Renaissance to the present, including a study of other important influences from African and Middle Eastern. The course covers prehistory to the Renaissance, with emphasis on the arts. Cost for museum visits not to exceed $15.00. Duplicate credit not granted for IND 100 C.

ENGL 104HC  HONORS CRITICAL ANALYSIS & LITERATURE
4 Units
Four hours of lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: ENGL 100 C with a grade of "C" or better. This course is a college level course enhanced for honors students. The emphasis is on developing increased critical thinking, reading and writing skills as they apply to the analysis of literature and literary criticism. Writing expanded argumentative research essays, and utilizing enhanced research strategies and documentation skills will be required. The class will be conducted as a seminar. Duplicate credit not granted for ENGL 104 C.

ENGL 105 C  CREATIVE WRITING
3 Units (May be taken for credit 2 times)
Three hours lecture per week.
UC/CSU
Prerequisite: ENGL 100 C. This course provides an opportunity for students to write short fiction, poetry, and, optionally, a short play. Students will gain an understanding of each literary type, create material in each area, and have their work critiqued in a workshop setting.

ENGL 106 C  CRITICAL THINKING
3 Units
Three hours lecture per week.
CSU, AA GE, CSU GE, RDG
Prerequisite: Eligibility for ENGL 100 C. This course develops critical reading, writing and thinking skills. Emphasis is placed on learning the strategies necessary to analyze and evaluate rhetorical and logical elements of written communication. Completion of this course satisfies the Cypress College Associate Degree Graduation Reading Proficiency Requirement.

ENGL 108 C  WRITING THE PERSONAL STATEMENT
½ Unit
One-half hour lecture per week.
Pass/No Pass
CSU
Prerequisite: ENGL 100 C. This course will teach students how to write an effective personal statement on their transfer applications to four-year institutions. Content strategies and essay format will be discussed and opportunities for multiple drafts will be engaged.

ENGL 110 C  HUMANITIES: ANCIENT & MEDIEVAL
3 Units
(Same as IND 101 C)
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: Eligibility for ENGL 100 C. This course is a survey of the development of Western culture from a focus upon its Greco-Roman roots, and a study of other important influences, including African and Middle Eastern. The course covers prehistory to the Renaissance, with emphasis on the arts. Cost for museum visits not to exceed $15.00. Duplicate credit not granted for IND 100 C.

ENGL 111 C  HUMANITIES: RENAISSANCE-PRESENT
3 Units
(Same as IND 101 C)
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: Eligibility for ENGL 100 C. This course is a survey of the development of Western culture from the Renaissance to the present, including a study of other important influences from Africa, the Middle East, North and South America, with an emphasis on the arts. Cost for museum visits not to exceed $15.00. Duplicate credit not granted for IND 101 C.

ENGL 120 C  TOPICS IN LITERATURE
½ - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
Three hours lecture per week.
UC Credit Limitation/CSU
Topics in language and literature are nine or eighteen week courses designed to provide students with experiences in specialized areas of English and an opportunity to explore and investigate areas of special interest. Courses such as Women's Voices in Literature, Humor in Literature and Modern British Drama are offered.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Schedule</th>
<th>CSU/UC Limitation/GE</th>
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<tbody>
<tr>
<td>ENGL 125 C</td>
<td>THE FILM</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>UC Credit Limitation/CSU, AA GE, CSU GE, IGETC</td>
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<tr>
<td>ENGL 125 HC</td>
<td>HONORS FILM</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>UC Credit Limitation/CSU, AA GE, CSU GE, IGETC</td>
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<tr>
<td>ENGL 126 C</td>
<td>SCREENWRITING</td>
<td>3 Units</td>
<td>May be taken for credit 2 times</td>
<td>Three hours lecture per week</td>
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<tr>
<td>ENGL 135 C</td>
<td>ADVANCED GRAMMAR AND USAGE</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>CSU, AA GE</td>
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<tr>
<td>ENGL 137 C</td>
<td>COLLEGE STUDY STRATEGIES</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>Pass/No Pass/Letter Grade Option</td>
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<tr>
<td>ENGL 180 C</td>
<td>SIGN LANGUAGE – SEE LEVEL I</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>CSU</td>
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<tr>
<td>ENGL 181 C</td>
<td>SIGN LANGUAGE – SEE LEVEL II</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>CSU</td>
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<tr>
<td>ENGL 182 C</td>
<td>SIGN LANGUAGE – SEE LEVEL III</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>CSU</td>
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<tr>
<td>ENGL 183 C</td>
<td>EDUCATIONAL INTERPRETING I</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>CSU</td>
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<tr>
<td>ENGL 120 C</td>
<td>THE FILM</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>UC Credit Limitation/CSU, AA GE, CSU GE, IGETC</td>
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<tr>
<td>ENGL 180 C</td>
<td>SIGN LANGUAGE – SEE LEVEL I</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>CSU</td>
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<tr>
<td>ENGL 181 C</td>
<td>SIGN LANGUAGE – SEE LEVEL II</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>CSU</td>
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<tr>
<td>ENGL 182 C</td>
<td>SIGN LANGUAGE – SEE LEVEL III</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>CSU</td>
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<tr>
<td>ENGL 183 C</td>
<td>EDUCATIONAL INTERPRETING I</td>
<td>3 Units</td>
<td>Three hours lecture per week</td>
<td>CSU</td>
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**ENGL 125 C  THE FILM**

Three hours lecture per week.

UC Credit Limitation/CSU, AA GE, CSU GE, IGETC

Prerequisite: ENGL 100 C. This course is a critical study of film that will develop critical thinking and writing skills. Students will study the elements of film making and the historical development of film. Film as a story telling art form will be emphasized. Ten to twelve films will be shown in class for analysis and discussion. Duplicate credit not granted for ENGL 125 HC.

**ENGL 125 HC  HONORS FILM**

Three hours lecture per week.

UC Credit Limitation/CSU, AA GE, CSU GE, IGETC

Prerequisite: ENGL 100 C. This course is a critical study of film as a story telling art form enhanced for Honors students. Students study the elements of cinematic storytelling, film's dependence on literature, and the historical development of film. Ten to twelve short and feature films are shown in the course for discussion and analysis. The course is taught in a seminar format. Duplicate credit not granted for ENGL 125 C.

**ENGL 126 C  SCREENWRITING**

Three hours lecture per week.

(UC/CSU, AA GE)

Prerequisite: ENGL 100 C. This course provides students the opportunity to study the art of the screenplay and create their own. Students will critically analyze professional models, view excellent examples of film writing, and work on their own screenplay. Students will have the opportunity to have their work critiqued in a workshop setting.

**ENGL 135 C  ADVANCED GRAMMAR AND USAGE**

Three hours lecture per week.

CSU, AA GE

Prerequisite: Eligibility for ENGL 100 C. This is an advanced course in English grammar and usage. Students will learn about the origins and development of the English language. Parts of speech, parts of sentences, verb tenses, sentence types, syntax, and standard usage will be emphasized. Students will demonstrate their understanding of English grammar and usage by analyzing standard written English. This course is useful for English, journalism, foreign language, and court reporting students and especially for those planning to enter elementary or secondary teaching.

**ENGL 137 C  COLLEGE STUDY STRATEGIES**

Three hours lecture per week.

Pass/No Pass/Letter Grade Option

CSU

Prerequisite: Eligibility for ENGL 060 C. The purpose of this course is to assist students in mastering effective learning and critical thinking strategies crucial for academic success and professional and personal growth. Goal setting and motivation, learning styles, time management, stress management, academic and professional reading, reading rate improvement, listening for note-taking, concentration, memory, test preparation, and test-taking strategies are primary topics.
ENGL 184 C  EDUCATIONAL INTERPRETING
PRACTICUM I
3 Units (May be taken for credit 4 times)
Three hours lecture per week.
Prerequisite: ENGL 182 C with a minimum grade of ‘C’ or three semesters of college level sign language classes in either American Sign Language, Pedgin Sign Language, Signed English, or Signing Exact English with minimum grades of “C”. This course will provide opportunities enabling students to apply previously learned theory to sign language interpreting services for the Deaf and Hard of Hearing (DHH). There is a specific focus on service provision in the elementary and middle school level educational settings. Students will apply learned rationale and methods to a service delivery model specifically targeting educational interpreting, demonstrate application of the ethics of educational interpreting, and work toward certification for educational interpreters in the state of California.

ENGL 185 C  EDUCATIONAL INTERPRETING II
3 Units
Three hours lecture per week.
Prerequisite: ENGL 183 C with a minimum grade of “C” or three semesters of college level sign language classes in either American Sign Language, Pedgin Sign Language, Signed English, or Signing Exact English with minimum grades of “C”. This course prepares students to offer sign language interpreting services for the Deaf and Hard of Hearing (DHH) with specific focus on service provision in the high school, vocational, and higher educational settings. Students will explore the rationale and methods of the service delivery models specifically targeting educational interpreting, continue to address the ethics of educational interpreting, and learn about the certification process for educational interpreters in the state of California.

ENGL 186 C  EDUCATIONAL INTERPRETING
PRACTICUM II
3 Units (May be taken for credit 4 times)
Three hours lecture per week.
Prerequisite: ENGL 184 C with a minimum grade of “C” or three semesters of college level sign language classes in either American Sign Language, Pedgin Sign Language, Signed English, or Signing Exact English with minimum grades of “C”. This course will provide students with opportunities to apply previously learned theory to sign language interpreting services for the Deaf and Hard of Hearing (DHH). There is a specific focus on service provision in the high school, vocational, and higher educational settings. Students will apply learned rationale and methods to a service delivery model specifically targeting educational interpreting, demonstrate application of the ethics of educational interpreting, and work toward certification for educational interpreters in the state of California.

ENGL 208 C  ASIAN-AMERICAN LITERATURE
3 Units
Three hours lecture per week.
Prerequisite: ENGL 100 C. This course is a study of Asian-American literature. Students will explore and analyze a variety of social and political issues, such as gender relationships, family relationships, cultural traditions, cultural conflicts, culinary traditions, and stereotypes from an Asian-American perspective. This course is designed to enhance cultural awareness and understanding, while also facilitating personal enrichment through the exploration of a variety of literary sources, including fiction, drama, poetry, journals, biography and film.

ENGL 211 C  ENGLISH LITERATURE TO 1760
3 Units
Three hours lecture per week.
Prerequisite: ENGL 100 C. Advisory: ENGL 102 C. The course is an introduction to the major periods and movements, major authors, and major forms from the beginnings of English literature to 1760. It covers works such as Beowulf and Sir Gawain and the Green Knight, as well as works from authors such as Marie de France, Chaucer, Marlowe, Shakespeare, Donne, Milton, Pope, and Swift.

ENGL 212 C  ENGLISH LITERATURE SINCE 1760
3 Units
Three hours lecture per week.
Prerequisite: ENGL 100 C. Advisory ENGL 102 C. The course is designed to be a continuation of ENGL 211 C. It covers fiction, poetry, drama, and prose from such authors as Wollstonecraft, Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Browning, Dickens, Wilde, Joyce, Hopkins, Yeats, Eliot, Woolf, and Beckett.

ENGL 221 C  AMERICAN LITERATURE: PART ONE
3 Units
Three hours lecture per week.
Prerequisite: ENGL 222 C. This course is a study of the literature of the United States from the Colonial Period through the post Civil War Period. It is designed to increase understanding and appreciation of the development of American culture and literary achievements. The students will experience the many different voices that constitute the literary cultures of the United States. Therefore, the oral tradition of the American Indians, writings by women and the enslaved Blacks as well as the traditional early American writers will be included to reflect organically on the most urgent art and ideas of this early period of our history and literary experience.

ENGL 222 C  AMERICAN LITERATURE: PART TWO
3 Units
Three hours lecture per week.
Prerequisite: ENGL 100 C. This course is designed to be a continuation of ENGL 221 C. A surveying of the literature of the United States from the emergence of modern American literature to the present time. It is designed to increase understanding and appreciation of the development of American culture and literary achievements. Writings by women, American Indians, the American Blacks and other ethnic minorities will be included to reflect organically on the most urgent art and ideas of our history and literary experience.
ENGL 230 C  THEMATIC TOPICS IN LITERATURE
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU
Prerequisite: ENGL 100 C. This course is designed to provide students with experiences in specialized areas of English and an opportunity to explore and investigate areas of special interest. Courses such as Gender Issues in Literature, Humor in Literature, and Latino Literature are offered. 

ENGL 230HC  HONORS THEMATIC TOPICS
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU
Prerequisite: ENGL 100 C. This course is a college level course enhanced for Honors students. The course is designed to provide students with enhanced experiences in specialized areas of English and an opportunity to explore and investigate areas of special interest. Courses such as Gender Issues in Literature, Humor in Literature, and Latino Literature are offered. The class will be conducted as a seminar and will require a significant research project using advanced research skills and documentation. 

ENGL 231 C  FICTION TOPICS IN LITERATURE
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU
Prerequisite: ENGL 100 C. This course is designed to provide students with experiences in specialized areas of English and an opportunity to explore and investigate areas of special interest. Courses such as The British Novel and The American Novel are offered. 

ENGL 231HC  HONORS FICTION TOPICS
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU
Prerequisite: ENGL 100 C. This course is a college level course enhanced for Honors students. The course is designed to provide students with enhanced experiences in specialized areas of English and an opportunity to explore and investigate areas of special interest. Courses such as The British Novel and The American Novel are offered. The class will be conducted as a seminar and will require a significant research project using advanced research skills and documentation. 

ENGL 234 C  SHAKESPEARE
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: ENGL 100 C. The course is an introduction to the major works of William Shakespeare. The emphasis is on thematic development, critical analysis, poetic devices, and historical context within selected comedies, histories, and tragedies. Ten to twelve plays will be studied along with a selection of the sonnets. 

ENGL 234HC  HONORS SHAKESPEARE
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: ENGL 100 C. This is a college level course enhanced for Honors students. The emphasis is on developing increased critical thinking, reading, and writing skills as they apply to an analysis of William Shakespeare's sonnets and his major plays, both as texts and in performance. The class will be conducted as a seminar. 

ENGL 239 C  SURVEY-CHILDREN'S LITERATURE
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, CUL DIV
Prerequisite: Completion of ENGL 100 C or ENGL 100HC with a grade of "C" or better. This course surveys the historical and cultural development of children's literature throughout the world, while emphasizing the important role that literature must assume in the social, emotional, and intellectual development of children. Tracing the multicultural origins of the oral tradition to the current standards of written excellence and pictorial artistry, this course concentrates on nursery rhymes, poetry, folk tales, myth, sacred literature, picture books, juvenile literature, and non-fiction. Comparative and critical approaches are used to analyze children's literature from a multicultural perspective. 

ENGL 247 C  MULTICULTURAL LITERATURE
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, CUL DIV
Prerequisite: ENGL 100 C or ENGL 100HC. The course is a study of multicultural literature, by both immigrant and native American writers, which explores varied responses - ethnic, gender, and regional - in the cultural context of a diverse country. Students will critically analyze a variety of literary sources, including such genres as fiction, drama, expository writing - essays, journals, autobiography, letters, and other less traditional literary forms - tales, chants, and rituals. The course is designed to enrich students' lives by exploring the multicultural literary sources of America that contribute to the cultural history and development of contemporary American society. Not open to students with credit in ENGL 097 C. 

ENGL 255 C  AFRICAN-AMERICAN LITERATURE I
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV
Prerequisite: Completion of ENGL 100 C or ENGL 100HC with a minimum grade of "C". This course is an in-depth historical analysis of the African and African-American literary diaspora, which explores autobiography, letters, poems, narratives, prose and other folk traditions from the beginning of the slave era to the Reconstruction era in the United States. This course is designed to expose students to the literature and social issues of Africans in America.

ENGL 256 C  AFRICAN-AMERICAN LITERATURE II
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV
Prerequisite: ENGL 100 C or ENGL 100HC with a minimum grade of "C". This course is an in-depth historical analysis of the African and African-American literary diaspora, which explores autobiography, letters, poems, plays, prose and other folk traditions from the Civil War to present in the United States. This course is designed to expose students to the literature and social issues of Africans in America.
English as a Second Language (ESL)

ENGL 298 C  LANGUAGE ARTS SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
This seminar is for able students who wish to extend their knowledge of literature, language, and culture through small group discussion. Subject matter may concern the work of one author or the literary or cultural characteristics of a particular movement or period.

ENGL 299 C  LANGUAGE ARTS INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 3 times)
One-half to two hours conference per week.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. This course is for able students who wish to increase their knowledge of literature and/or language through individual study or research. Unit credit may range from ½ to 2 units in any given semester.

English as a Second Language

Division of Language Arts

Division Dean – Eldon Young

Faculty
Hong Chi
Kathy Llanos
Debra McPherson
Alison Robertson
Kathryn Wada
Jane Wood

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

PLACEMENT IN ENGLISH AS A SECOND LANGUAGE (ESL) CLASSES

The CELSA test is designed to measure the English skills of non-native speakers of English. The CELSA test is required for proper placement in English as a Second Language (ESL) courses; the CTEP test, which is for native speakers of English, may not be substituted for placement in ESL courses. However, students scoring high on the CELSA test may be referred to English courses for native speakers after writing a successful composition. Go to the Assessment Center or view the Class Schedule.

ESL 044 C  BEGINNING ORAL SKILLS
2 Units (May be taken for credit 2 times)
Two hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: Appropriate skills demonstrated through the assessment process. This course is designed for high-beginning level non-native English speakers to improve basic oral communication skills related to social, vocational, and academic areas. The emphasis is on conversation, small group discussion, class discussion, and listening comprehension.

ESL 051 C  INTERMEDIATE PRONUNCIATION
2 Units (May be taken for credit 2 times)
Two hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: Appropriate skills demonstrated through the assessment process. This course is designed to refine pronunciation, to reduce foreign accent, and to build confidence in oral expression. Recommended to all ESL students.

ESL 052 C  INTERMEDIATE ESL GRAMMAR 1
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: Completion of ESL 081 C or appropriate skills demonstrated through the assessment process. This course is designed for intermediate ESL students to improve their knowledge and usage of English grammar, to review grammar trouble spots according to individual and class needs, and to improve grammatical accuracy and editing skills in writing.
The Learning Center, located in the Library/Learning Resource Center, 1st Floor, provides students with the opportunity to improve their learning skills as a way of becoming more successful college students. The Center offers a wide variety of tutorial packages. Students may drop in on their own or be referred by instructors and counselors.
ESL 053 C  INTERMEDIATE ESL GRAMMAR 2
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: Completion of ESL 081 C or appropriate skills demonstrated through the assessment process. This course is designed for intermediate ESL students to continue to increase their knowledge and usage of English grammar, to review grammar trouble spots according to individual and class needs, and to improve grammatical accuracy and editing skills in writing.

ESL 054 C  INTERMEDIATE ORAL SKILLS
2 Units (May be taken for credit 2 times)
Two hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: Completion of ESL 080 C or appropriate skills demonstrated through the assessment process. This course is designed for intermediate level non-native English speakers to improve oral communication skills related to social, vocational, and academic areas. The emphasis is on conversation, small group discussion, informal speeches, class discussion and listening comprehension.

ESL 062 C  ADVANCED ESL GRAMMAR 1
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: Completion of ESL 083 C or appropriate skills demonstrated through the assessment process. This course is designed to increase students’ knowledge and usage of advanced English grammar, to review grammar trouble spots according to individual and class needs, and to improve grammatical accuracy and editing skills in writing.

ESL 063 C  ADVANCED ESL GRAMMAR 2
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: Completion of ESL 083 C or appropriate skills demonstrated through the assessment process. This course is designed to continue to increase students’ knowledge and usage of advanced English grammar, to review grammar trouble spots according to individual and class needs, and to improve grammatical accuracy and editing skills in writing.

ESL 064 C  ADVANCED ORAL SKILLS
2 Units (May be taken for credit 2 times)
Two hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: Completion of ESL 083 C or appropriate skills demonstrated through the assessment process. This course is designed for advanced level non-native English speakers to improve oral communication skills related to social, vocational, and academic areas. The emphasis is on conversation, small group discussion, informal and formal speeches, class discussion and listening comprehension.

ESL 066 C  ADVANCED ESL READING
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: Completion of ESL 083 C with a minimum grade of ‘C’ or better or acceptable score on the placement test. This reading skills course is designed for non-native English speaking students eligible for advanced ESL courses who need to improve their college academic and non-academic reading skills. It does not meet the reading proficiency requirement for the AA degree.

ESL 080 C  LOW INTERMEDIATE ESL 1
5 Units
Five hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: Appropriate skills demonstrated through the assessment process. This is a low intermediate integrated skills course designed to improve the reading, grammar, writing, listening comprehension, and speaking skills of non-native speakers with a basic command of English.

ESL 081 C  LOW INTERMEDIATE ESL 2
5 Units
Five hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: ESL 080 C with a grade of “C” or better or appropriate skills demonstrated through the assessment process. This is a low intermediate (Level 1) integrated skills course designed to improve the reading, grammar, writing, listening comprehension, and speaking skills of non-native speakers with a moderate command of English.

ESL 082 C  INTERMEDIATE ESL 1
5 Units
Five hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: ESL 081 C or appropriate skills demonstrated through the assessment process. This course is designed for advanced level non-native English speakers to improve oral communication skills related to social, vocational, and academic areas. The emphasis is on conversation, small group discussion, informal and formal speeches, class discussion and listening comprehension.

ESL 083 C  INTERMEDIATE ESL 2
5 Units
Five hours lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Prerequisite: ESL 082 C or appropriate skills demonstrated through the assessment process. This is an intermediate integrated skills course designed to improve the reading, composition, grammar, listening comprehension, and speaking skills of non-native speakers with a moderate command of English.
ESL 098 C  SEMINAR FOR NON-NATIVE SPEAKERS OF ENGLISH
½ - 12 Units  (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a course for advanced ESL students who have completed all regular courses and wish to pursue in small group instruction additional course work in one or more of the language skills: listening, speaking, reading, writing and/or culture. Fees may be required – PAYABLE AT REGISTRATION.

ESL 099 C  INDEPENDENT STUDY FOR NON-NATIVE SPEAKERS OF ENGLISH
½ - 2 Units (Variable Unit Class) (May be taken for credit 3 times)
Two hours conference per week and appropriate number of laboratory hours for maximum credit.
Pass/No Pass
Prerequisite: Approved Independent Study Learning Contract. This is a course designed for advanced ESL students who have completed all regular courses and wish to pursue additional coursework in one or more of the language skills: listening, speaking, reading, writing and/or culture.

ESL 184 C  ADVANCED ESL 1
5 Units
Five hours lecture per week.
UC Credit Limitation/CSU
Prerequisite: ESL 083 or appropriate skills demonstrated through the assessment process. This course is an advanced integrated ESL skills course designed to improve the reading, writing, grammar, listening comprehension, and speaking skills of non-native speakers with an advanced command of English.

ESL 185 C  ADVANCED ESL 2
5 Units
Five hours lecture per week.
UC Credit Limitation/CSU
Prerequisite: ESL 184 C or appropriate skills demonstrated through the assessment process. This course is an advanced integrated ESL skills course designed to improve the reading, writing, grammar, listening comprehension, and speaking skills of non-native speakers with an advanced command of English.

ESL 186 C  ADVANCED ESL WRITING
5 Units
Five hours lecture per week.
UC Credit Limitation/CSU
Prerequisite: ESL 185 C with a grade of “C” or better or appropriate skills demonstrated through the assessment process. This course is designed for the non-native speaker of English as an introduction to college level writing skills. Emphasis is on essay development of expository writing. There is practice in reading essays and a novel. The fundamentals of English written expression are reviewed with emphasis on standard American usage problematic to the ESL student. The course is designed to prepare students for ENGL 100 C.

ESL 298 C  ENGLISH AS A SECOND LANGUAGE SEMINAR
½ - 12 Units  (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is for able students who wish to extend their knowledge of literature, language and culture through small group discussion. Fees may be required – PAYABLE AT REGISTRATION.

Ethnic Studies
Division of Social Science
Division Dean – Nina DeMarkey
Faculty
Daniel Lind
Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

Ethnic Studies (ETHS)
ASSOCIATE IN ARTS DEGREE
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):

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHS 100 C</td>
<td>3</td>
</tr>
<tr>
<td>or ETHS 100HC</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 129 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 130 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 131 C</td>
<td>3</td>
</tr>
</tbody>
</table>

Three (3) units from the following elective courses related to the African-American experience:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 255 C</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 256 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 235 C</td>
<td>3</td>
</tr>
<tr>
<td>HIST 135 C</td>
<td>3</td>
</tr>
<tr>
<td>MUS 113 C</td>
<td>3</td>
</tr>
<tr>
<td>POSC 209 C</td>
<td>3</td>
</tr>
</tbody>
</table>

Three (3) units from the following elective courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHS 150 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 151 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 152 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 160 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 170 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 171 C</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 18

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 Islander Americans, Chicano/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):

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHS 129 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 130 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 131 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 160 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 170 C</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 171 C</td>
<td>3</td>
</tr>
<tr>
<td>HIST 142 C</td>
<td>3</td>
</tr>
<tr>
<td>HIST 143 C</td>
<td>3</td>
</tr>
<tr>
<td>HIST 162AC</td>
<td>3</td>
</tr>
<tr>
<td>HIST 162BC</td>
<td>3</td>
</tr>
<tr>
<td>HIST 163 C</td>
<td>3</td>
</tr>
<tr>
<td>HIST 275 C</td>
<td>3</td>
</tr>
</tbody>
</table>
Three (3) units from the following elective courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 121</td>
<td>Native North America</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 208</td>
<td>Asian-American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 247</td>
<td>Multicultural Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 255</td>
<td>African-American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 256</td>
<td>African-American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 130</td>
<td>African-American History I</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 131</td>
<td>African-American History II</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 151</td>
<td>Chicana/o History I</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 152</td>
<td>Chicana/o History II</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 153</td>
<td>Chicana/o Contemporary Issues</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 171</td>
<td>Asian-American History</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 235</td>
<td>The Civil Rights Movement</td>
<td>3</td>
</tr>
<tr>
<td>HIST 135</td>
<td>African History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 142</td>
<td>History of Latin America I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 143</td>
<td>History of Latin America II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 160</td>
<td>Asian Civilizations I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 161</td>
<td>Asian Civilizations II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 163</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 275</td>
<td>History of California</td>
<td>3</td>
</tr>
<tr>
<td>POSC 209</td>
<td>Urban Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 237</td>
<td>Cross-Cultural Relationships</td>
<td>3</td>
</tr>
<tr>
<td>THEA 107</td>
<td>Diversity in American Theater</td>
<td>3</td>
</tr>
<tr>
<td>THEA 107HC</td>
<td>Honors Diversity in American Theater</td>
<td>3</td>
</tr>
</tbody>
</table>

**MULTICULTURAL MARKETING CERTIFICATE**

Program Code: 1K00044

This certificate program prepares students to work in the marketing field helping U.S. businesses and organizations to serve the needs of customers and clients in a culturally diverse society. Bringing together social science, language arts, and marketing, the certificate enables students to combine their knowledge of different cultural groups’ preferences, behaviors, and languages with marketing skills to create effective product development, promotion, distribution, and pricing strategies.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all coursework must be completed at Cypress College.

Required courses are listed in numeric sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHS 100</td>
<td>American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ETHS 100HC Honors American Ethnic Studies</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 222</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 205</td>
<td>Multicultural Markets in U.S.</td>
<td>3</td>
</tr>
</tbody>
</table>

and one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 121</td>
<td>Native North America</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ETHS 129 Intro to African-Amer. Studies</td>
<td>(3)</td>
</tr>
<tr>
<td>or</td>
<td>ETHS 150 Intro to Chicana/o Studies</td>
<td>(3)</td>
</tr>
<tr>
<td>or</td>
<td>ETHS 170 Intro to Asian-Amer. Studies</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**ETHNIC STUDIES TRANSFER PROGRAM**

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

**ETHS 100 C AMERICAN ETHNIC STUDIES**

3 Units

Three hours lecture per week.

**ETHS 100HC HONORS AMERICAN ETHNIC STUDIES**

3 Units

Three hours lecture per week.

**ETHS 129 C INTRODUCTION TO AFRICAN-AMERICAN STUDIES**

3 Units

Three hours lecture per week.

**ETHS 130 C AFRICAN-AMERICAN HISTORY I**

3 Units

Three hours lecture per week.
ETHS 131 C  AFRICAN-AMERICAN HISTORY II
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course is a survey of the African-American experience in the United States from the Era of Reconstruction to the present, emphasizing the roles of African Americans in the political, social and economic development of American society. Topics covered include: the various phases of the Reconstruction period; black life in the “New South”; the debates over educational and socio-economic progress; the migrations to the North and West; the struggles of the black working class; the impact of the two world wars on black life; the Civil Rights Movement; militancy during the 1960s; and the black experience in contemporary America.

ETHS 150 C  INTRODUCTION TO CHICANA/O STUDIES
3 Units (formerly ETHS 140 C)
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course is an introduction to the field of Chicana/o Studies. It is designed to acquaint students with the most significant social, political, economic, and historical aspects of the Chicana/o experience in the United States. The course is interdisciplinary in nature and will critically analyze the societal context in which Chicanas/os have sought to maintain their culture.

ETHS 151 C  CHICANA/O HISTORY I
3 Units (formerly ETHS 141 C)
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course is a survey of the Chicana/o experience from the pre-European conquest era of North America to the Mexican-American War. Topics covered include: Mesoamerican civilizations; Spanish conquest and settlement in the Americas; the rise of “mestizaje” among the indigenous populations, Spaniards, and Africans in Mexico and the North American Southwest, life in the Spanish and Mexican borderlands prior to the American conquest, and the War between the United States and Mexico.

ETHS 152 C  CHICANA/O HISTORY II
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course is a survey of the Chicana/o experience from the Mexican-American War to the present. Topics covered include: the impact of the Mexican-American War on the lives of Mexicans in the American Southwest during the nineteenth century; immigration, labor struggles, and institutional discrimination during the twentieth century; the struggles for civil rights and social equality; cultural affirmation and the construction of a “Chicana/o” identity; and the Chicana/o experience in contemporary America.

ETHS 153 C  CHICANA/O CONTEMPORARY ISSUES
3 Units (formerly ETHS 142 C)
Three hours lecture per week.
UC/CSU, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course focuses on the contemporary issues, characteristics, and significant contributions of the Chicana/o community. Emphasis is placed on contemporary sociological systems including, but not limited to, education, politics, social welfare, criminal justice, and the family. Some field study and research work may be required to provide relevant experiences.

ETHS 160 C  NATIVE AMERICAN HISTORY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course is a survey of the Native American experience from their early beginnings to the present. Emphasis is placed on the relations between Native Americans and other peoples in the United States. A socio-cultural approach is utilized to develop a thorough understanding of the Native American experience.

ETHS 170 C  INTRODUCTION TO ASIAN-AMERICAN STUDIES
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course is an introduction to the field of Asian-American Studies. An interdisciplinary approach will be employed to study the experiences of various Asian and Pacific Islander groups in the United States, utilizing the perspectives of race, nationality, class, gender, and sexuality. The course will cover historical and contemporary issues within Asian and Pacific Islander American communities, including immigration, anti-Asian violence, labor, unionization, and stereotypes.

ETHS 171 C  ASIAN-AMERICAN HISTORY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course is a survey of the Asian and Pacific Islander American experience in the United States from the mid-nineteenth century to the present. It addresses the historical forces that affected Asian and Pacific Islander American communities including: Chinese, Japanese, Filipino, Korean, Hawaiian, South Asian, and Southeast Asian. Topics covered include: Asian and Pacific Islander origins; immigration and settlement patterns; labor struggles and community formation; racism and U.S. exclusionary policies; the struggles for inclusion and civil rights; and the Asian and Pacific Islander American experience in contemporary America.

ETHS 235 C  THE CIVIL RIGHTS MOVEMENT
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, CUL DIV
This course will explore the principal factors that gave rise to the Civil Rights Movement of the 1950s and 1960s. Sociological models of collective behavior and social movements are utilized to analyze social structures, existing conditions, leadership, goals and tactics, organization, successes and failures and long term results of the Movement.
ETHS 298 C  ETHNIC STUDIES SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advis-
ory: May be required. This is a lecture/discussion type course
developed on a particular limited problem or topic of interest to
students. It is designed for students who wish to increase their
knowledge of a particular topic concerning which no other regular
class is offered. A paper or group activity may be requested. Credit
may range from ½ to 12 units. Consult the class schedule for the
offerings in a particular semester. Fees may be required – PAY-
ABLE AT REGISTRATION.

ETHS 299 C  ETHNIC STUDIES IND. STUDY
1 Unit (May be taken for credit 4 times)
One hours lecture per week.
UC Credit Limitation/CSU
Prerequisite: Dean Approved Independent Study Learning Con-
tract. Independent study is for students who wish to extend their
knowledge of a particular area through individual research and
study. It is thought that topics might develop out of a curiosity
stimulated in a regular class. The student would then contact the
supervising instructor to develop a contract for his/her particular
interest so he/she could learn more regarding their special topic.

Flight Attendant –
See Airline and Travel
Careers (ATC)

Foreign Language
For specific foreign language courses see Chinese, Japanese, French and Spanish.
FOREIGN LANGUAGE TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower
division major requirements for most California public universi-
ties. (See the Standard Definitions section of the catalog for a
description of ASSIST.) Students transferring to an independent
college/university should consult the catalog of the individual
school and a counselor for lower division major requirements.

French
Division of Language Arts
Division Dean – Eldon Young
Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General
Education and Basic Skills Program Learning Outcomes. Please
refer to General Education and Basic Skills Program Learning
Outcomes on page 58.

French (FREN)
FRENCH TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower
division major requirements for most California public universi-
ties. (See the Standard Definitions section of the catalog for a
description of ASSIST.) Students transferring to an independent
college/university should consult the catalog of the individual
school and a counselor for lower division major requirements.

FREN 053 C  BASIC SPOKEN FRENCH
3 Units (May be taken for credit 2 times)
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
This is an introductory course emphasizing oral practice, pronun-
ciation, and vocabulary development. It is designed to develop a
speaking knowledge of French for use in everyday conversational
situations. It is an ideal preparation for college-level language
classes for students with limited language skills. It is not open to
native speakers of the language.
FREN 098 C  FRENCH SEMINAR  
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)  
Zero to twelve hours lecture and  
Zero to twenty-four hours laboratory per week.  
Pass/No Pass or Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE  
This seminar is for students who wish to extend their knowledge of literature, language and culture through small group discussion. Fees may be required – PAYABLE AT REGISTRATION.

FREN 101 C  ELEMENTARY FRENCH I  
5 Units  
Five hours lecture per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE  
The course emphasizes the acquisition of basic skills in pronunciation, listening, speaking, reading, and writing. Students will be introduced to the culture, history, and geography of France and other French-speaking countries through lectures, films, video, DVD, CD rom, Internet sites, and reading assignments.

FREN 102 C  ELEMENTARY FRENCH II  
5 Units  
Five hours lecture per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE  
Prerequisite: FREN 101 C with a grade of “C” or one year of high school French with an average grade of “C” or better. The course continues to emphasize the acquisition of basic skills in pronunciation, listening, speaking, reading, and writing. Students will increase their knowledge of the culture, history, and geography of France through lectures, video, CD Rom, DVD, films, and reading and writing assignments. Students will also have additional exposure to francophone culture through the Internet.

FREN 200 C  CONVERSATIONAL FRENCH  
2 Units (May be taken for credit 4 times)  
Two hours lecture per week.  
Pass/No Pass/Letter Grade Option  
CSU, CSU GE  
Prerequisite: FREN 102 C. This is a course in conversation with emphasis on the idiomatic use of the language through French films. Topics concern French life, culture, geography, and history. Students prepare for this class through the study of the textbook, magazines, newspapers, and other current material and encounters. This course is conducted in French.

FREN 203 C  INTERMEDIATE FRENCH III  
4 Units  
Four hours lecture per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE, IGETC  
Prerequisite: FREN 102 C with a grade of “C” or two years of high school French with an average grade of “C” or better. The course emphasizes the acquisition of contextualized vocabulary and grammatical information to develop speaking, reading and writing skills. New cultural, historic and literary material is introduced through lectures, films, Internet sites, reading and writing assignments. The course is conducted in French.

FREN 204 C  INTERMEDIATE FRENCH IV  
4 Units  
Four hours lecture per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE, IGETC  
Prerequisite: FREN 203 C with grade of “C” or three years of high school French with an average grade of “C” or better. The course emphasizes the mastery and application of grammatical rules. It requires more advanced reading of modern and classical French, as well as a continued emphasis on oral and written expression. It is designed to help the student acquire a working knowledge of the language and to form the basis for advanced work in literature and science. Continued readings and discussions of francophone life and culture are an essential factor.

FREN 298 C  FRENCH SEMINAR  
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)  
Zero to twelve hours lecture and  
Zero to twenty-four hours laboratory per week.  
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade  
UC Credit Limitation/CSU  
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is for able students who wish to extend their knowledge of literature, language and culture through small group discussion. Fees may be required – PAYABLE AT REGISTRATION.

FREN 299 C  FRENCH INDEPENDENT STUDY  
½ - 2 Units (Variable Unit Class) (May be taken for credit 3 times)  
Two hours conference per week for maximum credit.  
Pass/No Pass/Letter Grade Option  
UC Credit Limitation/CSU  
Prerequisite: Approved Independent Study Learning Contract. This course is designed for able students who wish to increase their knowledge of the French language through individual study or research.
Geography
Division of Social Science

Division Dean, Nina DeMarkey

Faculty
Leslie Doak
Armando Mendoza

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

GEOGRAPHIC INFORMATION SYSTEMS CERTIFICATE Program Code: 1C07825
Provide endorsed entry-level skills for the rapidly growing GIS field. Our certificate is the only general purpose GIS certificate approved by the California State Chancellor’s office.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

Geographic Information Systems (12 units) required:
Course # Title Units
GEOG 230 C Introduction to GIS 3
GEOG 231 C GIS: Vector Applications 3
GEOG 232 C GIS: Advanced Vector & Raster 3
GEOG 233 C GIS: Advanced Applications 3

Spatial Courses (3 units) from the following:
GEOG 100 C World Geography 3
*GEOG 160 C Cultural Geography 3

Spatially Related Courses (3 units) from the following:
ANTH 102 C Cultural Anthropology 3
ANTH 203 C Introduction to Archaeology 3
Biol 103 C Human Ecology 3
BIOL 122 C Marine Biology 5
BIOL 127 C Natural History 5
BIOL 128 C Plants and Society 5
BIOL 176 C Ecology 3
ECON 260 C Economic Geography 3
ENG 101 C Technical Drawing 3
ENG 104 C Computer Aided Design 3
GEOG 100 C World Geography 3
GEOG 102 C Physical Geography 3
GEOG 130 C California Geography 3
GEOG 140 C Weather and Climate 3
*GEOG 160 C Cultural Geography 3
GEOG 202 C Field Geography – Physical 1
GEOG 234 C Current Topics in GIS 3
GEOG 260 C Economic Geography 3
GEOL 100 C Physical Geology 3
GEOL 120 C Geology of California 3
GEOL 130 C Introduction to Oceanography 3
GEOL 190 C Environmental Geology 3
HS 147 C Survey of Disease 3
ATC 174 C Destinations: Americas/Europe 3
ATC 175 C Destinations: Africa/Pacific 3
MKT 222 C Principles of Marketing 3
MKT 224 C International Marketing 3
ASTR 116 C Introduction to Astronomy 3

GEOGRAPHY Program Code: 1A19681
The Associate in Arts Degree in Geography is designed to provide students with a comprehensive introduction to the three distinct areas of geographic studies (Earth Science/Environmental Studies/Physical; Earth Technologies; and Human Studies) in order to give them the background knowledge needed by undergraduate geography majors for university transfer and coursework, while emphasizing the practical applications of geographic skills and knowledge in a diversity of careers and the utility of geographic perspectives as a life-long learning tool for interpreting our world’s complex systems and 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 (13 Units):
Course # Title Units
GEOG 100 C World Geography 3
or
GEOG 100HC Honors World Geography 3
GEOG 102 C Physical Geography 3
GEOG 102LC Physical Geography Lab 1
*GEOG 160 C Cultural Geography 3
GEOG 130 C California Geography 3

Elective courses (6 Units):
Course # Title Units
GEOG 140 C Weather and Climate 3
GEOG 260 C Economic Geography 3
GEOG 202 C Field Geography - Physical 1
ANTH 104 C Comparative Cultures 3
POSC 230 C International Relations 3
HIST 112 C World Civilizations I 3

Total Units Required for Certificate 25

* A score of 3 or higher on the Advanced Placement (AP) Geography (Human) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

ASSOCIATE IN ARTS DEGREE

Geography / 193
GEOGRAPHIC INFORMATION SYSTEMS/ MARKETING CERTIFICATE  Program Code: 1K00021
This certificate program provides students with the skills to use Geographic Information Systems (GIS) computerized mapping techniques in the field of marketing. Combining the latest computer graphics and marketing research methods, students will learn to create maps to locate customers, evaluate business sites, plan distribution networks and sales territories, and find new business opportunities.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 210 C</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKT 224 C</td>
<td>International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 230 C</td>
<td>Introduction to GIS</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 231 C</td>
<td>GIS: Vector Applications</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>18</td>
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</tbody>
</table>

GEOGRAPHY TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Geography (GEOG)

GEOG 100 C  WORLD GEOGRAPHY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
An introduction to today’s physical and political regions emphasizing location, population, political status, land use problems and potentialities and providing opportunities for worldwide research with the use of advanced technology. Duplicate credit not granted for GEOG 100HC.

GEOG 100HC  HONORS WORLD GEOGRAPHY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
An enhanced introduction to today’s physical and political regions emphasizing location, population, political and economic status, differences and similarities, problems and potentialities and providing opportunities for worldwide research with the use of advanced technology. Duplicate credit not granted for GEOG 100 C.

GEOG 102 C  PHYSICAL GEOGRAPHY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course is an investigation and interpretation of the sun-earth relationship, science of maps, weather and climate, the hydrosphere, cycles and patterns in the biosphere, flora and fauna, soils, rocks, and minerals, weathering, mass wasting, erosion, and origin and types of landforms that provide insight into the nature of man's physical environment.

GEOG 102LC  PHYSICAL GEOGRAPHY - LAB
1 Unit
Two hours laboratory and
One hour laboratory/quiz/problem solving per week.
UC/CSU, AA GE, CSU GE, IGETC
Prerequisite: Completion of, or concurrent enrollment in, GEOG 102 C. This course investigates and interprets in a laboratory environment the sun-earth relationships, science of maps, weather and climate, climatic types and locations, natural vegetation, soils and minerals, ocean environment, and the origin and types of landforms that provide insight into the nature of man's physical environment.

GEOG 130 C  CALIFORNIA GEOGRAPHY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course investigates and interprets the physical, cultural and economic bases and regions of the state of California. Particular emphasis is placed upon the natural foundations of the landscape with the exploration of the unique nature and special characteristics of the people utilizing that landscape.

GEOG 140 C  WEATHER AND CLIMATE
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course is an investigation and interpretation of the local and global surface weather phenomena, use of instruments, classification and distribution of world climates. Particular emphasis is placed upon the interrelationships between weather and climate and upon weather forecast techniques.

GEOG 160 C  CULTURAL GEOGRAPHY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course investigates and interprets the interrelationship of human activities with cultural background, physical environment and the diffusion of ideas. Emphasis is placed on where and why people locate, the distribution of different cultural characteristics on the earth’s surface, how people earn a living in various parts of the world, how people organize their lives and how their problems may result from the use of the earth’s resources.

GEOG 202 C  FIELD GEOGRAPHY - PHYSICAL
1 Unit (May be taken for credit 4 times)
Eighteen hours lecture in the field (location TBA).
UC/CSU
Prerequisite: Completion of, or concurrent enrollment in, GEOG 102 C. Each separate offering of this course will occur in a unique location, studying unique circumstances and conditions in the field. Each course will employ its own combination of technical equipment, scientific instruments, and geotechniques. All courses will study the basic conceptual materials, with modifications associated with the location and the specific conditions encountered at each season.

GEOG 230 C  INTRODUCTION TO GIS
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU
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.
GEOG 231 C  GIS: VECTOR APPLICATIONS  
3 Units  
Two hours lecture and  
Three hours laboratory per week.  
CSU  
Prerequisite: GEOG 230 C. Geographic Information Systems (such as ArcInfo) is introduced as a tool to analyze and solve problems, and to discover opportunities for business and academic applications. Students will apply this software in student selected projects. A semester project will be required of each student. $4.00 Materials Fee – PAYABLE AT REGISTRATION.

GEOG 232 C  GIS: ADVANCED VECTOR & RASTER  
3 Units  
Two hours lecture and  
Three hours laboratory per week.  
CSU  
Prerequisite: GEOG 231 C. 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.

GEOG 233 C  GIS: ADVANCED APPLICATIONS  
3 Units  
One hour lecture per week and  
125 hours fieldwork per semester.  
CSU  
Prerequisite: GEOG 232 C. Internships and fieldwork comprise a significant portion of the students' work in this Geographic Information Systems (GIS) course. Students are required to participate in 125 hours of supervised field study per semester (6.9 hours per week) and one hour lecture per week to discuss problem areas related to fieldwork. $4.00 Materials Fee – PAYABLE AT REGISTRATION.

GEOG 234 C  CURRENT TOPICS IN GIS  
3 Units  
(May be taken for credit 4 times.)  
Two hours lecture and  
Three hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
CSU  
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 Materials Fee – PAYABLE AT THE BOOKSTORE.

GEOG 260 C  ECONOMIC GEOGRAPHY  
3 Units  
(Same as ECON 260 C)  
Three hours lecture per week.  
UC/CSU, CSU GE, IGETC  
This course is an investigation and interpretation of the world's economic organization, its natural resources, raw materials, crops and crop production, manufacturing and service industries, new trends in producing and the changing centers of production and consumption.

GEOG 298 C  GEOGRAPHY SEMINAR  
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)  
Zero to twelve hours lecture and  
Zero to forty-two hours laboratory per week.  
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade  
UC Credit Limitation/CSU  
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion type course developed on a particular limited problem or topic of interest to students. It is designed for able students who wish to increase their knowledge of a particular topic concerning which no other regular class is offered. A paper or group activity may be requested. Credit may range from ½ to 12 units. Consult class schedule for the offerings a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

GEOG 299 C  GEOGRAPHY INDEPENDENT STUDY  
1 Unit  
(May be taken for credit 3 times)  
Varying hours of scheduled conferences per week according to instructor.  
UC Credit Limitation/CSU  
Prerequisite: Approved Independent Study Learning Contract. Independent study is for able students who wish to extend their knowledge of a particular area through individual research and study. It is thought the topics might develop out of a curiosity stimulated in a regular class. The student would then contact the supervising instructor to develop a contract for his/her particular interest so that they could learn more regarding their specific topic.

Geology  
Division of Science/Engineering/Mathematics  
Division Dean – Richard Fee  
Faculty  
Victoria Castle  
Russell Flynn  
Counselors  
Deidre Porter  
PROGRAM LEARNING OUTCOMES (PLOs)  
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

GEOLOGY TRANSFER PROGRAMS  
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST). Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 100 C</td>
<td>PHYSICAL GEOLOGY</td>
<td>3</td>
<td>Three hours lecture per week. UC Credit Limitation/CSU, AA GE, CSU GE, IGETC. This course is a survey of the composition and structure of the earth, integrating the processes and forces that operate under and upon the earth's surface. Duplicate credit not granted for GEOL 100HC or GEOL 102 C.</td>
</tr>
<tr>
<td>GEOL 100HC</td>
<td>HONORS PHYSICAL GEOLOGY</td>
<td>3</td>
<td>Three hours lecture per week. UC Credit Limitation/CSU, AA GE, CSU GE, IGETC. This course is a survey of the composition and structure of the earth, integrating the processes and forces that operate under and upon the earth's surface. Visits to local natural museums and geological field trips may be arranged. Duplicate credit not granted for GEOL 100 C or GEOL 102 C.</td>
</tr>
<tr>
<td>GEOL 101 C</td>
<td>PHYSICAL GEOLOGY LABORATORY</td>
<td>1</td>
<td>Three hours laboratory per week. UC/CSU, AA GE, CSU GE, IGETC. Prerequisite: Completion of, or concurrent enrollment in, GEOL 100 C. This course includes the identification of minerals and rocks; understanding of topographic maps, aerial photographs and other imagery from remote sensing; interpretation of rocks, structures, and geologic processes as revealed on maps, air photos, and satellite imagery and their relationship to plate tectonics. (Not open to students with credit in GEOL 101 C.)</td>
</tr>
<tr>
<td>GEOL 103 C</td>
<td>HISTORICAL GEOLOGY</td>
<td>4</td>
<td>Three hours lecture and Three hours laboratory per week. UC/CSU, AA GE, CSU GE, IGETC. This course is an introduction to the scientific method of exploring planetary materials and structures in understanding the origin and development of the earth and its organisms through time. Laboratory involves examining and classifying rock and fossil specimens, analyses of rock and fossil records found on and in the earth, and application of rock and fossil interpretations to historical geology.</td>
</tr>
<tr>
<td>GEOL 105 C</td>
<td>EARTH SCIENCE FOR TEACHERS</td>
<td>4</td>
<td>Three hours lecture and Three hours laboratory per week. CSU, AA GE, CSU GE. This class is designed for the prospective school teacher. This multidisciplinary course will explore the fields of geology, oceanography, meteorology, and astronomy. Topics include solar system, mineral/rock formation, star/galaxy, atmosphere, volcanoes, and earthquakes.</td>
</tr>
<tr>
<td>GEOL 115 C</td>
<td>PHYSICAL GEOLOGY FIELD LAB</td>
<td>1</td>
<td>Three hours laboratory per week. UC Credit Limitation/CSU, AA GE, CSU GE, IGETC. This course includes field and laboratory study of mineral, rock, and fossil identification; structural and geomorphic features; geologic history; and geologic hazards of selected regions in Southern California. (Not open to students with credit in GEOL 101 C or GEOL 102 C.)</td>
</tr>
<tr>
<td>GEOL 120 C</td>
<td>GEOLOGY OF CALIFORNIA</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC. This course is designed to acquaint the student with the physical and historical geology of the natural provinces of California. The mineral deposits, stratigraphic and rock units, tectonic structures, fossils and geomorphology within each province will be examined.</td>
</tr>
<tr>
<td>GEOL 125 C</td>
<td>NATURAL DISASTERS</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC. This course is an introduction to the science of natural disasters. Topics include earthquakes, volcanoes, landslides, hurricanes, tornadoes, floods, climate change and mass extinctions. Case studies, monitoring methods and disaster planning will be addressed.</td>
</tr>
<tr>
<td>GEOL 130 C</td>
<td>INTRODUCTION TO OCEANOGRAPHY</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC. This course is a survey of the composition and structure of the earth's ocean showing the interrelationship between atmosphere, hydrosphere, lithosphere, and biosphere. The effects of modern technology, ocean resources, and marine pollution will be explored.</td>
</tr>
<tr>
<td>GEOL 131 C</td>
<td>INTRODUCTION TO OCEANOGRAPHY LAB</td>
<td>1</td>
<td>Three hours laboratory per week and selected field trips. UC/CSU, AA GE, CSU GE, IGETC. Prerequisite: Completion of, or concurrent enrollment in, GEOL 130 C. This course includes the identification of earth materials; understanding of bathymetric charts; basic navigation; and methods of oceanographic research.</td>
</tr>
<tr>
<td>GEOL 190 C</td>
<td>ENVIRONMENTAL GEOLOGY</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC. This course is designed for the non-science major and will integrate the significant principles and concepts of the solid earth, atmosphere, space and hydrospace and relate them to the environment, with special emphasis on resources, wastes and hazards. The perspective will focus on ways in which earth processes generate the varieties of resources useful in humans in the form of metal, non-metals, energy, water, ocean and soil. Hazards such as liquid, solid and radioactive wastes and their effects on environmental deterioration will be studied. Natural hazards such as floods, faults, landslides and earthquakes will be examined. (The course is not open to students who have completed GEOL 100 C or GEOL 102 C.)</td>
</tr>
</tbody>
</table>
Health Information Technology

Division of Health Science

Faculty
- Rebecca Gomez
- Rosalie Majid

Counselors
- Kelly Carter
- Denise Vo

PROGRAM LEARNING OUTCOMES (PLOs)

Health Information Technology

A student who completes the Health Information Technology program will be able to:

- Gain the knowledge and skills needed to perform entry level functions in health information management/information technology.
- Attain the knowledge and skills needed to successfully pass entry level HIM certification examinations, especially the Registered Health Information Technician examination.
- Obtain HIM-related positions or be enrolled in an advanced degree program within 6 months of completion of the program.

HEALTH INFORMATION TECHNOLOGY
ASSOCIATE IN SCIENCE DEGREE

PROGRAM  Program Code: 1S03788

Courses in Health Information Technology prepare individuals to become health information specialists. The health information technician is a member of the health care team ensuring that documentation is consistent with professional standards and licensure requirements. To accomplish this, health information technicians monitor and track information recorded in a patient’s medical record which includes the medical history, physical examination, progress notes reflecting treatment, and laboratory and radiology reports. Interacting with physicians, administrators, nurses and other allied health professionals, the health information technician quantifies, manages, and interprets the health record data that becomes the basis for crucial medical and financial decisions. The health information technician functions as the patient advocate in protecting the confidentiality of sensitive health care information recorded in the medical record.

To fulfill these responsibilities, health information technicians develop a broad range of skills. Their clinical knowledge base is essential for them to read and interpret the medical record. Processing health information involves usage of computers and computer applications. In safeguarding medical information, the health information technician becomes familiar with the legal aspects inherent in the delivery of patient care. Health information technicians develop managerial skills working as supervisors and directors of health information departments.

Most (60%) health information technicians currently work in health care facilities where they organize, analyze and generate health data for treatment, reimbursement, planning, quality assessment and research. Other employers of health information professionals include medical group practices, government agencies, insurance companies, utilization review organizations, health maintenance organizations, cancer centers, and consulting firms. Health information specialists can also work in sales and marketing positions for companies that design and supply information systems and materials for health information/medical record departments.

The Health Information Technology Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIM). Graduates of the program are, therefore, eligible to take the American Health Information Management Association’s national qualifying examination leading to certification as a Registered Health Information Technician (RHIT).

MINIMUM STANDARDS FOR ENROLLMENT

High school graduation, or completion of the General Education Development (GED) test with a minimum score of 45, or high school proficiency examination.

ENROLLMENT PROCEDURES

1. Students may enroll in either the fall, spring or summer semester.

2. Submit application to College. Students are responsible for furnishing all documents, records, forms and transcripts indicating minimum standards to the Counseling Office.

3. Complete an HI Program Personal Data Sheet. These data sheets may be obtained from the Health Science Counseling Office, Cypress College, 9200 Valley View, Cypress, CA 90630.
REQUIRED CURRICULUM

Transferability of health information is determined by the individual receiving college. 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 with a grade of “C” or better; (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.

It is recommended that the following required courses be taken prior to enrolling in the Program.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 101</td>
<td>Intro to Keyboarding/MS Word</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Typing Speed of 25 wpm)</td>
<td></td>
</tr>
<tr>
<td>CIS 111</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>HS 145</td>
<td>Survey of Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HI 100</td>
<td>Trends in Health Care Delivery</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units Required: 11

Courses are listed in suggested sequence:

**SEMESTER 1**

HI 101 C  Health Information Science 3
HI 102 C  Legal Aspects of Health Care 2
BIOL 210 C  Anatomy and Physiology 5
ENGL 100 C  College Writing 3

Total Units Required: 13

**SEMESTER 2**

HS 147 C  Survey of Disease 3
HI 115 C  Medical Staff Services Science 3
HI 204 C  ICD-9-CM Coding 3

Total Units Required: 9

**SEMESTER 3**

HI 103 C  Health Care Statistics* 3
HI 214 C  CPT/Ambulatory Care Coding 3
HI 203 C  Medical Quality Management** 2
HI 105 C  Directed Practice I*** 4

Total Units Required: 12

**SEMESTER 4**

HI 220 C  Advanced ICD-9-CM Coding 3
HI 225 C  Information Technology* 3
HI 110 C  Medical Insurance Billing 3
HI 245 C  Coding Skills Lab 1
HI 205 C  Directed Practice II*** 4

Total Units Required: 14

Total Units Required: 59

*Course offered in Fall
**Course offered in Spring
***This course is a non-paid laboratory experience. Students are assigned to a health care agency.

HEALTH CARE MANAGEMENT AND SUPERVISION SKILLS CERTIFICATE  Program Code: 1K00041

This certificate program helps prepare students to work in the health care field in a management or supervisory capacity. Preparing students to work in a variety of health care delivery settings, including physicians’ offices, hospitals, health maintenance organizations, and insurance companies, the certificate focuses on the leadership, motivation, organization, planning, and other skills needed to manage or supervise others. Created for both (a) students with allied health credentials and (b) students with general business or office experience, it is designed to help students gain entry into the health care field, to move into supervisory positions, and/or to advance in their current positions.

To earn a certificate, students must complete the required courses as 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 numeric sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI 100</td>
<td>Trends in Health Care Delivery</td>
<td>2</td>
</tr>
<tr>
<td>HI 102</td>
<td>Legal Aspects of Health Care</td>
<td>2</td>
</tr>
<tr>
<td>HI 115</td>
<td>Medical Staff Services Science</td>
<td>3</td>
</tr>
<tr>
<td>MGT 262</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 266</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 267</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 16

HEALTH CARE MARKETING AND SALES SKILLS CERTIFICATE (pending state approval)  Program Code: 1K00042

This certificate program provides students with the necessary knowledge and skills to work in the health care field in a marketing or sales capacity. Preparing students to work in a variety of health care delivery settings, including physicians’ offices, hospitals, health maintenance organizations, and insurance companies, the certificate focuses on such areas as: sales and customer service, marketing research, advertising, public relations, and community outreach. It is designed to help students gain entry into the health care marketing and sales field and/or to advance in their current positions.

To earn a certificate, students must complete the required courses as 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 numeric sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI 100</td>
<td>Trends in Health Care Delivery</td>
<td>2</td>
</tr>
<tr>
<td>HI 102</td>
<td>Legal Aspects of Health Care</td>
<td>2</td>
</tr>
<tr>
<td>HI 115</td>
<td>Medical Staff Services Science</td>
<td>3</td>
</tr>
<tr>
<td>MGT 262</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 266</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 267</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 16

HEALTH INFORMATION TECHNOLOGY CERTIFICATE  Program Code: 1C21113

To earn a certificate, students must (1) document a minimum of an Associate Degree; and (2) complete all major course work with a minimum grade of “C.” At least 50 percent of all major course work must be completed at Cypress College.
HEALTH INFORMATION CODING
CERTIFICATE Program Code: 1C07837
Option of the Health Information Technology Program
Because coding is at the heart of both health care reimbursement and clinical analysis, this extremely important aspect of health information management requires a highly trained and accurate professional. This certificate program prepares the individual to assign numerical codes to diagnoses, symptoms, and procedures using the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and procedures according to Current Procedural Terminology (CPT). Most third party payers, including the federal government and private insurance companies, require submission of codes as part of the hospital and/or physician billing process. Diagnoses and procedures codes are needed for comparing and tracking diseases, clinical research, statistical reporting, market data and planning.

In addition to a high school diploma or equivalent, on-the-job coding experience and a solid coding education are needed to take the certification examination offered by the American Health Information Management Association to become a Certified Coding Specialist.

Individuals skilled in ICD-9-CM coding are employed as coders for hospitals, physicians’ offices, peer review organizations, health maintenance organizations, ambulatory care facilities, skilled nursing facilities, consulting firms, medical billing firms, or insurance companies.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College. Upon successful completion of the required courses, the student will receive a certificate of completion from Cypress College.

MINIMUM STANDARDS FOR ENROLLMENT
1. High school diploma or completion of the General Education Development (GED) test with a minimum score of 45, or high school proficiency tests.

2. Eligibility for ENGL 100 C.

ENROLLMENT PROCEDURES
1. Students may enroll in either the fall or spring semester.

2. Submit application to College. Students are responsible for furnishing all documents, records, forms and transcripts indicating minimum standards to the Counseling Office.

3. Complete an HI Program Personal Data Sheet. These data sheets may be obtained from the Health Science Counseling Office, Cypress College, 9200 Valley View, Cypress, CA 90630.

PROGRAM REQUIREMENTS
Required Courses are listed in suggested sequence:
Course # Title Units
SEMESTER 1
HI 101 C Health Information Science 3
HS 145 C Survey of Medical Terminology 3
BIOL 210 C Anatomy and Physiology 5
HI 100 C Trends in Health Care Delivery 2

13

SEMESTER 2
CIS 111 C Computer Information Systems 3
HI 204 C ICD-9-CM Coding 3
HI 245 C Coding Skills Lab 1

10

SEMESTER 3
HI 214 C CPT/Ambulatory Care Coding 3
HI 220 C Advanced ICD-9-CM Coding 3
HI 245 C Coding Skills Lab 2
*HI 299 C Independent Study 1
HI 110 C Medical Insurance Billing 3

12

Total Units Required 35

• This course is a non-paid laboratory experience.

MEDICAL INSURANCE BILLING SPECIALIST
CERTIFICATE PROGRAM Program Code: 1C12170
The Medical Insurance Billing Specialist Program prepares students for employment as a medical insurance billing specialist. In processing insurance claims for health care providers, the medical insurance specialist assists both the health care provider and the patient organize, file, and negotiate health insurance claims of all types. Their primary goals are to assist the consumer in obtaining maximum benefits as well as to tell the patient what checks to write to providers to make sure there is no overpayment. Medical Insurance Specialists work in a variety of health delivery settings: physician’s offices, ambulatory medical groups, hospitals, ambulatory surgery centers, insurance companies, and managed care organizations.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College. Upon successful completion of the required courses, the student will receive a certificate of completion from Cypress College.

This program is offered subject to final approval by the Chancellor’s Office of the California Community Colleges and the California Postsecondary Education Commission.

ENROLLMENT PROCEDURES
1. Students may enroll in either the fall or spring semester.

2. Submit application to College. Students are responsible for furnishing all documents, records, forms and transcripts indicating minimum standards to the Counseling Office.

3. Complete an HI Program Personal Data Sheet. These data sheets may be obtained from the Health Science Counseling Office, Cypress College, 9200 Valley View, Cypress, CA 90630.

Required Courses are listed in suggested sequence:
Course # Title Units
SEMESTER 1
CIS 101 C Intro to Keyboarding/MS Word 3
HS 145 C Survey of Medical Terminology 3
HI 101 C Health Information Science 3
BIOL 160 C Integrated Medical Science 3
CIS 111 C Computer Information Systems 3

12

SEMESTER 2
HI 204 C ICD-9-CM Coding 3
HI 214 C CPT/Ambulatory Care Coding 3
HI 110 C Medical Insurance Billing 3

24
MEDICAL QUALITY REVIEW ASSISTANT
CERTIFICATE  Program Code: 1C07838

Option of the Health Information Technology Program
Quality management is a process undertaken by hospitals and other providers of health care to determine the quality of patient care services delivered. A Quality Review Assistant will work under the supervision of the Director of Quality Management and perform quality assessment activities. These activities may include such data retrieval activities as occurrence or generic screening, comparing medical records against pre-established criteria, maintaining manual or computerized practitioner profiles, collecting follow-up information, or screening for medical staff monitoring and evaluation activities. Individuals interested in this certificate program are encouraged to schedule an appointment with the Health Information Technology Counselor.

To earn a certificate, students must complete the required courses as 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:
Course #  Title  Units

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 145 C</td>
<td>Survey of Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HI 101 C</td>
<td>Health Information Science</td>
<td>3</td>
</tr>
<tr>
<td>HI 115 C</td>
<td>Medical Staff Services Science</td>
<td>3</td>
</tr>
<tr>
<td>HI 202 C</td>
<td>Medical Quality Management</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>11</strong></td>
</tr>
</tbody>
</table>

SEASON 2

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 147 C</td>
<td>Survey of Disease</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>HI 102 C</td>
<td>Legal Aspects of Health Care</td>
<td>2</td>
</tr>
<tr>
<td>*HI 299 C</td>
<td>Independent Study</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI 103 C</td>
<td>Health Care Statistics</td>
</tr>
<tr>
<td>BIOL 160 C</td>
<td>Integrated Medical Science</td>
</tr>
</tbody>
</table>

*This course is a non-paid laboratory experience. Students are assigned to a hospital.

MEDICAL RECORD CLERK
CERTIFICATE  Program Code: 1K07839

Option of the Health Information Technology Program
The Medical Record Clerk option prepares the individual to perform entry-level clerical functions in a Medical Record Department of health care facilities. Students will demonstrate competency in processing admissions and discharges, assembling health records, analyzing health records for deficiencies, and filing methods. Individuals interested in this certificate program are encouraged to schedule an appointment with the Health Information Technology Program Counselor.

To earn a certificate, students must complete the required courses as 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:
Course #  Title  Units

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 145 C</td>
<td>Survey of Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HI 101 C</td>
<td>Health Information Science</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 101 C</td>
<td>Intro to Keyboarding/MS Word</td>
<td>3</td>
</tr>
<tr>
<td>*HI 299 C</td>
<td>Independent Study</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Elective**

<table>
<thead>
<tr>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI 102 C</td>
<td>Legal Aspects of Health Care</td>
</tr>
</tbody>
</table>

*This course is a non-paid laboratory experience. Students are assigned to a hospital.

ASSOCIATE IN SCIENCE DEGREE
MEDICAL STAFF SERVICES
SCIENCE  Program Code: 1S07836

AND CERTIFICATE IN MEDICAL STAFF SERVICES
SCIENCE  Program Code: 1C07836

A Medical Staff Services Professional is a professional administrative assistant who coordinates the activities of the organized medical staff and serves as liaison between the Medical Staff, Nursing Staff, and Administration within parameters established by the Chief Executive Officer of the Hospital. This exciting position offers top management interfacing with Board of Directors, Medical Staff Officers and other leaders in the medical field. The Medical Staff Services Professional assists the medical staff in fulfilling its major responsibility to monitor the quality of patient care delivered by all physicians who are members of the medical staff.

Upon completion of this Associate Degree in Medical Staff Services Science and three years experience, the student is eligible to write the examination offered by the National Association of Medical Staff Services to become a Certified Professional Medical Staff Manager. Please refer to www.namss.org for additional information on CPMSM exam eligibility.

MINIMUM STANDARDS FOR APPLICANTS

High school graduation or completion of the General Education Development (GED) test with a minimum score of 45 or high school proficiency tests.

APPLICATION PROCEDURES

1. Students may enroll in either the fall or spring semester, or semesters.
2. Submit application to College. Students are responsible for furnishing all documents, records, forms and transcripts indicating minimum standards to the Health Science Application Office.
3. Complete an HI Technology Program Personal Data Sheet. These data sheets may be obtained from the Health Science Counseling Office, Cypress College, 9200 Valley View, Cypress, CA 90630.

ASSOCIATE IN SCIENCE DEGREE

MEDICAL STAFF SERVICES
SCIENCE  Program Code: 1S07836

AND CERTIFICATE IN MEDICAL STAFF SERVICES
SCIENCE  Program Code: 1C07836

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 with a grade of “C” or better; (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.

REQUIRED CURRICULUM

It is recommended that the following three required courses be taken prior to enrolling in the Health Information Technology courses:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 102 C</td>
<td>Document Formatting – MS Word</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>HS 145 C</td>
<td>Survey of Medical Terminology</td>
<td>9</td>
</tr>
</tbody>
</table>
### Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th></th>
<th>SEMESTER 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HI 101 C</td>
<td>Health Information Science</td>
<td>HI 115 C</td>
<td>Medical Staff Services Science</td>
</tr>
<tr>
<td>HI 102 C</td>
<td>Legal Aspects of Health Care</td>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
</tr>
<tr>
<td>HS 100 C</td>
<td>Trends in Health Care Delivery</td>
<td>BIOL 210 C</td>
<td>Anatomy and Physiology</td>
</tr>
<tr>
<td>ENGL 100 C</td>
<td>College Writing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEMESTER 3</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 250 C</td>
<td>Word Processing</td>
</tr>
<tr>
<td>HS 203 C</td>
<td>Medical Quality Management</td>
</tr>
<tr>
<td>or</td>
<td>MGT 262 C</td>
</tr>
<tr>
<td>MGT 267 C</td>
<td>Principles of Supervision</td>
</tr>
<tr>
<td>HS 147 C</td>
<td>Survey of Disease</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEMESTER 4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HI 215 C</td>
<td>Medical Staff Services Science</td>
</tr>
<tr>
<td>HI 225 C</td>
<td>Information Technology</td>
</tr>
<tr>
<td>*HI 299 C</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

*This course is a non-paid laboratory experience. Students are assigned to a hospital.*

### HI 080 C  SELECTED TOPICS

3⁄4 - 8 Units (Variable Unit Class) (May be taken for credit 4 times)

Variable hours lecture and
Variable hours laboratory per week.
Pass/No Pass/Letter Grade Option

This course is designed to meet the health information technology student's need for current topics and issues, updated information in health care review of specialized subject matter, and/or preparation for health information related certification exams. Content will emphasize clinical application of theoretical principles in the discipline. Computer software, videotapes, resource materials, instructor assessment of individual student knowledge and skills will be utilized.

### HI 101 C  HEALTH INFORMATION SCIENCE

3 Units

Two hours lecture and
Three hours laboratory per week.

CSU

This course is an in-depth investigation of the generic components of the content, use and structure of health care data and data sets and how these components relate to primary and secondary health record systems. Emphasis will be placed on the content of the health record and documentation requirements pursuant to federal/state regulations and voluntary accrediting body standards. Discussions will focus on health care data sets. Laboratory activities will include data entry; assembly and analysis of medical records; filing and retrieval of information; and reading and interpreting medical records. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

### HI 102 C  LEGAL ASPECTS OF HEALTH CARE

2 Units

(1Same as HS 102 C)

Two hours lecture per week.

CSU

The focus of this course is on legal and ethical issues affecting the health care industry, health care providers, and health information managers. State laws, federal regulations, and case precedents form the basis for class discussion. Topics include tort law; confidentiality and release of medical information; informed consent; corporate and personal liability; patient rights; negligence and medical malpractice; contract and labor law; and ethics. Special emphasis is placed on the procedures for safeguarding the security of health care data to prevent inappropriate disclosure of confidential health information.

### HI 103 C  HEALTH CARE STATISTICS

3 Units

Two hours lecture and
Three hours laboratory per week.

CSU

Prerequisite: HI 101 C with a grade of “C” or better. This course focuses on the effective collection, presentation, and verification of health care data necessary for the preparation of administrative and clinical reports. The role of data in clinical research, vital statistics and epidemiology will be discussed. Laboratory activities will focus on manual and automated data presentation techniques and on the interpretation and analysis of healthcare data. The role of the health information professional in transforming data into meaningful information for use in clinical and financial decision-making will be stressed. Data reliability and validity will be emphasized.
HI 105 C  DIRECTED PRACTICE I
4 Units
Three hours lecture and
Four hours directed practice per week.
CSU
Prerequisite: HI 101 C, CIS 111 C. This course is an investigation of the components of the content, use, and structure of health care data and data sets in the following alternative health care settings: long term care, home health, hospice, ambulatory care, behavioral health and rehab services. Emphasis is on analyzing the content of the health record and documentation requirements pursuant to federal/state regulations and voluntary accrediting body standards. Discussions will focus on the opportunities for health information management professional in these different settings. Directed practice activities will focus on the abstracting of data, analysis of findings, and preparation of reports in the alternative health care settings. Students are assigned to an affiliated health related agency for supervised directed practice. Students shall have the status of learner and shall not be considered agency employees, nor shall they replace agency staff. Directed practice is conducted as a non-paid, laboratory experience.

HI 110 C  MEDICAL INSURANCE BILLING
3 Units
Three hours lecture per week.
CSU
Prerequisite: HS 145 C or equivalent. This course focuses on the principles and mechanics of ambulatory care and medical office billing and will cover the entire billing process from the initial verification of insurance benefits, to the submission of the claim form, and to final collections process. It provides exposure to the many types of private and governmental insurance: Medicare, Medicaid, Blue Cross, health maintenance organizations, workers compensation, etc. CPT and ICD-9-CM coding principles related to claims submissions will focus on the use of complete diagnostic coding, CPT modifiers and HCPCS Level II codes. The advantages of electronic claims submission will be discussed. Students will learn to complete insurance claim Form 1500, the universally accepted billing format for medical offices.

HI 112 C  COMPUTERIZED MEDICAL INSURANCE BILLING
2 Units
Two hours lecture per week.
CSU
Corequisite: Completion of or concurrent enrollment in HI 110 C or employed as a medical insurance biller. This course focuses on the use of advanced medical practice software for automating medical insurance billing and medical office management. Course activities will include hands on computer practice in data entry, line item posting, electronic submission of claims, and posting payments and adjustments. Computer reports will be used to trace delinquent accounts and age accounts. Computerized daily reports, bank statements, accounts receivable and related reports will be demonstrated.

HI 115 C  MEDICAL STAFF SERVICES SCIENCE
3 Units
Three hours lecture per week.
CSU
This comprehensive introductory course in fundamental concepts, principles and organization of the hospital and the medical staff services department includes the purpose and role of an organized medical staff; initial staff appointment; reappointment; privilege delineation; preparing agendas and writing minutes; and monitoring and documenting proctoring, peer review, and quality review. A primary focus of the course is the guidelines for credentialing of physicians and allied health professionals in not only the hospital but also managed care settings. The organization of health care facilities and interdepartmental relationships is discussed. Emphasis will be placed on standards of voluntary accrediting agencies and regulations of federal and state licensing agencies. This course will provide useful information to the individual responsible for credentialing in a managed care organization and is good preparation for the CPMSM and CPCS credentialing exams.

HI 203 C  MEDICAL QUALITY MANAGEMENT
2 Units
(Same as HS 203 C)
Two hours lecture per week.
CSU
Prerequisite: HS 145 C or background in medical terminology. This course is an introduction to the principles of the quality management and performance improvement process in health care and provides a framework for gaining skills in collecting, analyzing and presenting data. Course content includes an introduction to quality management techniques and tools, patient safety, hospital and ambulatory accreditation requirements, utilization and risk management. Activities focus on the use of quality improvement tools to collect and present quality management data.

HI 204 C  ICD-9-CM CODING
3 Units
Two hours lecture and
Three hours laboratory per week.
CSU
Prerequisite: HI 101 C, HS 145 C, and either BIOL 160 C or BIOL 210 C with a grade of "C" or better; or employed as a coder. Principles of nomenclature and classification systems are stressed with emphasis and training in ICD-9-CM. The preparation of abstracts and reports utilizing coding of diseases, conditions, and procedures is addressed with the intention of indexing and retrieving information for administrative, reimbursement and research purposes.
HI 205 C  DIRECTED PRACTICE II
4 Units
Three hours lecture and
Four hours directed clinical practice per week.
CSU
Prerequisite: HI 103 C and HI 204 C and counselor approval indicating eligibility to graduate from Health Information Technology Program at the end of the semester. This course will focus on the principles of organization of a health information management department; supervision of human resources in order to develop effective skills in leadership, motivation and team-building techniques; and marketing health information management services. Discussions focus on directed practice activities which will emphasize the collection, analysis and presentation of health care data; quality improvement functions; and coding and abstracting. During the final semester, students are assigned to an affiliated health-related agency for supervised directed practice. Students shall have the status of learner and shall not be considered agency employees, nor shall they replace agency staff. Directed practice is conducted as a nonpaid, laboratory experience.

HI 214 C  CPT/AMBULATORY CARE CODING
3 Units
Two hour lecture and
Three hours laboratory per week.
CSU
Prerequisite: HI 204 C or employed as a Health Information coder. This course focuses on the principles and mechanics of coding procedures according to Current Procedural Terminology and its relationship to the Healthcare Common Procedure Coding System (HCPCS). The course will address the requirements for diagnostic and procedure coding in ambulatory care including hospital outpatient, outpatient surgery and physician office as well as the relationship to outpatient reimbursement methodologies. In the Laboratory, students will solve coding problems using operative reports and encoding software. $3.00 Laboratory Fee payable at the time of registration

HI 215 C  MEDICAL STAFF SERVICES SCIENCE
2 Units
Two hours lecture per week.
CSU
Prerequisite: HI 115 C. Lecture and discussion focuses on selected aspects of medical staff services departmental management and supervision; due process and peer review hearings; and documentation of Medical Executive Committee activities. Throughout the course, there will be advanced review of office management systems.

HI 220 C  ADVANCED ICD-9-CM CODING
3 Units
Two hour lecture and
Three hours laboratory per week.
CSU
Prerequisite: HI 204 C and HS 147 C. Advanced concepts in ICD-9-CM and its application in the prospective payment system are discussed. Lecture will focus on the structure of the Medicare-Severity diagnostic related groups; interpretation of laboratory and radiologic findings; basic pharmacology; and Coding Clinic guidelines. Laboratory activities will include coding actual medical records related to the most common diagnostic related groups using automated encoders. $3.00 Laboratory Fee payable at the time of registration. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

HI 225 C  INFORMATION TECHNOLOGY
3 Units
Three hours lecture per week.
CSU
Prerequisite: CIS 111 C. This course is an introduction to health informatics and information management technology. Emphasis is on electronic health records, personal health records, telemedicine, telecommunications, image-based document management systems, and HIPAA privacy and security standards. Activities center on using electronic health records software.

HI 245 C  CODING SKILLS LAB
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry/Open Exit)
Three to six hours laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
The focus of this course is one of assisting the students in the development of coding skills and the application of those skills to different types of medical records. Students will code inpatient, emergency department, outpatient surgery, and referred outpatient medical records using the International Classification of Diseases - Ninth Revision - Clinical Modification (ICD-9-CM) and the Healthcare Common Procedure Coding System (HCPCS). The process of interpreting medical record information, choosing the required coding classification and assigning and sequencing codes correctly will be addressed. This course will provide an opportunity for students in the Health Information Technology and Health Information Coding Specialist Programs to demonstrate competencies required for completion of each program. Computer assisted instruction and automated encoders will be used within the course. This course may also be taken to update coding skills.

HI 299 C  INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
One-half to two hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: Approved Independent Study Learning Contract.
This course is designed for students enrolled in the Health Information Technology and Health Information Coding Specialist Programs to demonstrate competencies required for completion of each program. Computer assisted instruction and automated encoders will be used within the course. This course may also be taken to update coding skills.

Health Information Technology / 203
Health Science
Division of Health Science
Division Dean – John Sciaccia
Faculty
Counselors
Kelly Carter
Denise Vo

Health Science (HS)

HS 030 C  CALCULATIONS FOR MEDICATIONS
1 Unit (May be taken for credit 2 times)
One hour lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Advisory: Students should consider this course if they are eligible for admission to the nursing program psychiatric technician program and/or have had challenges on the math section of the entrance exam, or are in need of updating of math/medication computation skills. Students should consider this course if they are eligible for admission to the nursing program or psychiatric technician program and/or have had challenges on the math section of the entrance exam, or are in need of updating of math/medication computation skills.

HS 050 C  PREPARATION FOR HEALTH SCIENCE
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
This course is designed for students interested in a health science career. The communication, reading and mathematical skills of students will be developed in relation to the various career needs. Remedial and introductory material necessary to enter and complete a Health Science Program are emphasized.

HS 060 C  SELECTED TOPICS FOR NURS 192 C
½ - 2 Units (Variable Unit Class)
One-half to two hours lecture per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Acceptance in the Nursing Program. This course is designed to correlate with NURS 192 C Fundamentals of Nursing, which provides introductory knowledge of the fundamentals of nursing. The assigned topics covered correlate with textbook and module assignments and enhance learning in specific theoretical concepts and nursing techniques. Computer software, video tapes, resource materials, instructor assessment of individual student's nursing knowledge and skills and individualized instruction are utilized.

HS 061 C  SELECTED TOPICS FOR NURS 196 C
½ - 2 Units (Variable Unit Class)
One-half to two hours lecture per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Acceptance in the Nursing Program. This course is designed to correlate with NURS 196 C Med-Surg Nursing I, providing increased knowledge of fundamentals of nursing and more complex nursing skills. The assigned topics covered correlate with the textbook and module assignments and enhance learning in specific theoretical concepts and more complex nursing techniques introduced in NURS 196 C. Films, videotapes, resource materials, instructor assessment of individual student's nursing knowledge and skills in individualized instruction are utilized.

HS 062 C  SELECTED TOPICS FOR NURS 292 C
½ - 2 Units (Variable Unit Class)
One-half to two hours lecture per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Acceptance in the Nursing Program. This course is designed to correlate with NURS 292 C Med-Surg Nursing II, providing an expansion of knowledge of medical/surgical nursing. The assigned topics covered correlate with the textbook and module assignments and aid in providing enhanced learning in specific theoretical concepts and nursing techniques introduced in NURS 292 C. Films, videotapes, resource materials, instructor assessment of individual student's nursing knowledge and skills in individualized instruction are utilized.

HS 063 C  SELECTED TOPICS FOR NURS 197 C
½ - 2 Units (Variable Unit Class)
One-half to two hours lecture per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Acceptance in the Nursing Program. This course is designed to correlate with NURS 197 C Maternal/Newborn Nursing, providing an expansion of knowledge of maternal health care needs. The assigned topics covered correlate with the textbook and module assignments and enhance learning in specific theoretical concepts and nursing techniques introduced in NURS 197 C. Films, videotapes, resource materials, instructor assessment of individual student's nursing knowledge and skills in individualized instruction are utilized.

HS 064 C  SELECTED TOPICS FOR NURS 293 C
½ - 2 Units (Variable Unit Class)
One-half to two hours lecture per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Acceptance in the Nursing Program. This course is designed to correlate with NURS 293 C Mental Health Nursing, providing increased knowledge of mental health nursing. The assigned topics covered correlate with the textbook and module assignments and enhance learning in specific theoretical concepts and more complex nursing techniques introduced in NURS 293 C. Films, videotapes, resource materials, instructor assessment of individual student's nursing knowledge and skills in individualized instruction are utilized, as well as group discussion and dialogue.

HS 065 C  SELECTED TOPICS FOR NURS 296 C
½ - 2 Units (Variable Unit Class)
One-half to two hours lecture per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Acceptance in the Nursing Program. This is designed to correlate with NURS 296 C Child/Family Nursing. The assigned topics correlate with theory, providing enrichment activities enabling the student to better understand pediatric nursing. The course utilizes audiovisual materials, selected references, computer simulated learning, and group discussions.
HS 066 C  SELECTED TOPICS FOR NURS 297 C
½ - 2 Units (Variable Unit Class)
One-half to two hours lecture per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Acceptance in the Nursing Program. This course is designed to correlate with NURS 297 C Med-Surg Nursing III. Assigned topics covered correlate with textbook and module assignments in NURS 297 C. Clinical simulations are provided to permit the student practice in the performance of nursing procedures, as well as an opportunity for clinical competency testing. Videos, films, slides, games, resource materials, computer simulations, instructor assessment of student’s nursing knowledge and skills, and individualized instruction are utilized.

HS 067 C  SELECTED TOPICS - LEADERSHIP
½ - 2 Units (Variable Unit Class)
Lecture hours vary according to credit given.
Pass/No Pass/Letter Grade Option
Prerequisite: Acceptance in the Nursing Program. This course is designed to correlate with NURS 247 C. Depth of understanding of issues related to nursing practice and leadership are increased through the directed use of appropriate audio visual materials and selected references, as well as group discussions and dialogue.

HS 068 C  SELECTED TOPICS - GERONTOLOGY
½ - 2 Units (Variable Unit Class) (May be taken for credit 2 times)
One-half to two hours lecture per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Enrollment in NURS 193 C or NURS 294 C. This course will focus on the special nursing and health care needs of the older adult and development of nursing skills necessary to meet those needs. Activities will focus on assisting the student in the further development of assessment skills, interpersonal and communication skills and patient teaching, which are essential in the care of the older adult. This course is an elective for students who desire enrichment in theories related to the care of the older adult.

HS 070 C  HEALTH CARE COMMUNICATION
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One-half to three hours laboratory per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
Advisory: ESL 184 C. This course is designed for the non-native speaker to help enhance written and oral communication with clients and providers. Group as well as individualized instruction that correlate with the co-enrolled health care course of study will be taught. This course is open to students enrolled in any Health Science course or waiting to be re-admitted to a Health Science program.

HS 076 C  CPR FOR HEALTH CARE PROVIDERS
1 Unit (May be taken for credit 2 times)
One hour lecture per week.
Pass/No Pass/Letter Grade Option
Basic life support “C” certification is required for health care providers. This class prepares the student will knowledge and skills required to perform adult one-rescuer CPR, adult two-rescuer CPR, pediatric one-rescuer CPR, child two-rescuer CPR, adult foreign body airway management and pediatric foreign body airway management. (The American Heart Association charges a fee for the “C” certification card).

HS 077 C  CPR RECERTIFICATION
½ Unit (May be taken for credit 4 times)
One-half hour lecture per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Course in Basic Life Support with “C” Certification. Current BLS “C” certification is required for health care workers when providing direct patient care. This class prepares the student with current knowledge and skills required to obtain a recertification card from the American Heart Association. (The American Heart Association charges a fee for the recertification card).

HS 080 C  SELECTED TOPICS IN NURSING AND ALLIED HEALTH
½ - 8 Units (Variable Unit Class) (May be taken for credit 10 times)
One-half to eight hours lecture per week.
Pass/No Pass/Letter Grade Option
This course is designed to meet the nursing and allied health science student need for current topics and issues, updated information in health care review of specialized subject matter, and/or preparation for health related licensure and certification exams. Content will emphasize clinical application of theoretical principles in the discipline. Computer software, videotapes, resource materials, instructor assessment of individual student knowledge and skills will be utilized.

HS 098 C  HEALTH SCIENCE SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This class will utilize a lecture discussion approach to various topics within the Health Science programs. A variety of classes will be offered to introduce students to new experiences, update content on current issues, and explore new trends in health care. Fees may be required – PAYABLE AT REGISTRATION.

HS 099 C  HEALTH SCIENCE - INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Lecture hours vary according to credit given.
Pass/No Pass/Letter Grade Option
Prerequisite: Approved Independent Study Learning Contract.
This course is designed for students interested in health science programs who wish to increase their knowledge and experience in applied areas. Students will participate in independent study on assigned areas under staff supervision.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 100 C</td>
<td>TRENDS IN HEALTH CARE DELIVERY</td>
<td>2</td>
<td>This course investigates how and where health care is delivered in the United States and examines different health care practitioners and professional healthcare associations; the role of federal, state and local governments in health care; and the impact of managed care organizations. How consumers pay for health care as well as how health care providers receive reimbursement for services are discussed. The principles of customer focused health care are discussed. Current issues affecting the delivery of health care are emphasized. The course is recommended for students interested in health care or preparing for careers in health care.</td>
</tr>
<tr>
<td>HS 102 C</td>
<td>LEGAL ASPECTS OF HEALTH CARE</td>
<td>2</td>
<td>The focus of this course is on legal and ethical issues affecting the health care industry, health care providers, and health information managers. State laws, federal regulations, and case precedents form the basis for class discussion. Topics include tort law; confidentiality and release of medical information; informed consent; corporate and personal liability; patient rights; negligence and medical malpractice; contract and labor law; and ethics. Special emphasis is placed on the procedures for safeguarding the security of health care data to prevent inappropriate disclosure of confidential health information.</td>
</tr>
<tr>
<td>HS 145 C</td>
<td>SURVEY OF MEDICAL TERMINOLOGY</td>
<td>3</td>
<td>This course includes fundamentals of word analysis, roots, prefixes and suffixes in an orientation to the body as a whole. A survey of medical terminology of the following body systems includes: skin and breast, musculoskeletal, neurological/psychiatric, cardiovascular, respiratory, digestive, genitourinary, prenatal, maternal, endocrine, and special senses. Anatomical and physiologic terminology, combining forms, diagnostic terms, clinical and surgical procedures, laboratory tests and abbreviations are included. A basic requirement for most career opportunities in the allied health occupations and in the court systems is the comprehension of medical terminology.</td>
</tr>
<tr>
<td>HS 147 C</td>
<td>SURVEY OF DISEASE</td>
<td>3</td>
<td>This course is a survey of general principles of disease, organs, and systems as related to specific diseases. It includes chronic and degenerative diseases; respiratory, bone, and gastrointestinal tract diseases, diseases of the genitourinary systems and reproductive organs, including genetic influences; infectious diseases and neoplasms; disturbances of body fluids and disturbed function. It is required by the State Department of Public Health, Division of Radiologic Health and recommended by the American Society of Radiologic Technology and is also the basic pathology of disease course requirement for Health Information Technology students.</td>
</tr>
<tr>
<td>HS 161 C</td>
<td>DYING/DEATH AND GRIEF/MOURNING</td>
<td>3</td>
<td>This course is designed to assist individuals in such areas as personal death anxiety and working/living with the terminally ill person. Discussion includes special concerns such as how to handle grief, suicide, hospice, and other related topics.</td>
</tr>
<tr>
<td>HS 165 C</td>
<td>ETHICAL AND LEGAL ISSUES</td>
<td>1 1/2</td>
<td>This course will focus on making ethical choices in health care. An introduction to legal terminology, concepts, and principles will be presented. Topics include misconduct, malpractice, legal and professional standards and the scope of practice. The importance of proper documentation and informed consent is emphasized. The student will examine a variety of ethical issues and dilemmas found in clinical practice. The rights and responsibilities of patients and health care professionals will be examined.</td>
</tr>
<tr>
<td>HS 168 C</td>
<td>PATIENT CARE SKILLS - OPEN LAB</td>
<td>1/2 - 3</td>
<td>This open-entry, open-exit course with flexible hours and variable units allows self-paced individualized instruction and/or practice in client care skills with Health Science faculty supervision. The course provides students with space and equipment needed to learn client care skills. Health Science program students will complete a self-assessed learning plan prior to beginning their practice sessions. $15.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>HS 203 C</td>
<td>MEDICAL QUALITY MANAGEMENT</td>
<td>2</td>
<td>This course is an introduction to the principles of the quality management and performance improvement process in health care and provides a framework for gaining skills in collecting, analyzing and presenting data. Course content includes an introduction to quality management techniques and tools, patient safety, hospital and ambulatory accreditation requirements, utilization and risk management. Activities focus on the use of quality improvement tools to collect and present quality management data.</td>
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</tbody>
</table>
HS 268 C  PATIENT CARE SKILLS - OPEN LAB
½ - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry-Open Exit)
One and a half to nine hours of laboratory per week.
Pass/No Pass
CSU
Prerequisite: Current second year Health Science program student or approved re-entry students needing remedial assistance or current professional license related to a health science program.
This open-entry, open-exit course with flexible hours and variable units allows self-paced individualized instruction and/or practice in advanced client care skills with Health Science faculty supervision. The course provides students with space and equipment needed to learn advanced client care skills. Health Science program students will complete a self-assessed learning plan prior to beginning their practice sessions. $15.00 Materials Fee – PAYABLE AT REGISTRATION.

HS 277 C  CULTURAL AWARENESS & HEALTH CARE
3 Units
Three hours lecture per week.
CSU, AA GE, CSU GE, CUL DIV
This course is designed to examine how cultural differences impact health care and health care delivery. The influence of multicultural cultures on health care concepts, intervention, and the delivery of health care will be discussed. The course will emphasize communication, beliefs and customs, cultural rituals, ethical and legal implications and staff relations in our multicultural health care system. The content focuses on expanding sensitivity to cultural diversity in health care and includes medical, social, and legal issues.

Health Science - Continuing Education

Division of Health Science

Division Dean – John Sciacca

Faculty
Health Science Instructors

Counselors
Kelly Carter
Denise Vo

Provider approved by the California Board of Registered Nursing - Provider Number 00110, for the number of contact hours the class meets. Request list of approved classes from the Health Science Division.

Health Science - Continuing Education (HSCE)

HSCE 161 C  DYING/DEATH AND GRIEF/MOURNING
3 Units
(Same as HS 161 C)
CSU
Three hours lecture/discussion per week.
This course is designed to assist individuals in such areas as personal death anxiety and working/living with the terminally ill person. Discussion includes special concerns such as how to handle grief, suicide, hospice, and other related topics.

HSCE 250 C  RADIATION LAWS AND ETHICS
3 Units
(Same as RADT 250 C)
CSU
Prerequisite: RADT 142 C, RADT 146 C or Limited Permit in X-ray technology.
Content is designed to provide an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues, and the body as a whole are presented. Factors affecting biological responses are presented, including acute and chronic effects of radiation. The course is designed to present the principles of radiation protection including the responsibilities of the radiographer for patients, personnel, and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies, and health care organizations are incorporated. An introduction to legal terminology, concepts, and principles will be presented. Topics include misconduct, malpractice, legal and professional standards and the scope of practice. The importance of proper documentation and informed consent is emphasized. The student will examine a variety of ethical issues and dilemmas found in clinical practice.

HSCE 260 C  FLUOROSCOPY PERMIT COURSE
3 Units
(Same as RADT 260 C)
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: Current California Radiologic Technology Certification License. This course will provide the knowledge of skills, attitudes, and competencies to operate fluoroscopy equipment efficiently and safely. Upon successful completion of the course, students will receive a certificate of completion and be eligible for the California State Technologist Fluoroscopy Permit certification test. Students must be able to verify C.R.T. status at the first class meeting.

HSCE 262 C  CROSS-SECTIONAL IMAGING
1 Unit
(Same as RADT 262 C)
One hour lecture per week.
Pass/No Pass/Letter Grade Option
CSU
This course correlates knowledge and practice of diagnostic imaging with cross-sectional anatomy of the skull, thorax, abdomen, and pelvis. Diagnostic imaging includes the ability to work with ultrasound, computerized tomography, and magnetic resonance. A knowledge of medical terminology and anatomy is recommended.
History (HIST)

HISTORY TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

HIST 110 C  WESTERN CIVILIZATIONS I
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a comprehensive study of the contributions of previous civilizations from prehistoric times to the beginning of the modern era. The development of the present day Western mind and institutions is traced by analyzing the beliefs, myths, accomplishments and problems of the civilizations of Mesopotamia, Egypt, Greece, Rome, the Medieval Period, Renaissance and Reformation. Duplicate credit not granted for HIST 110HC.

HIST 110HC  HONORS WESTERN CIVILIZATIONS I
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an enhanced comprehensive study of the development of Western civilization from the beginning of the modern era to the present day. A major part of this course deals with the last 100 years. It covers imperialism, communism, industrialism and nationalism with related political-social, and cultural issues. Duplicate credit not granted for HIST 110 C.

HIST 111 C  WESTERN CIVILIZATIONS II
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course covers the development of Western civilization from the beginning of the modern era to the present day. A major part of this course deals with the last 100 years. It covers imperialism, communism, industrialism and nationalism with related political-social, and cultural issues. Duplicate credit not granted for HIST 111HC.

HIST 111HC  HONORS WESTERN CIVILIZATIONS II
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an enhanced comprehensive study of the development of Western civilization from the beginning of the modern era to the present day. A major part of this course deals with the last 100 years. It covers imperialism, communism, industrialism and nationalism with related political-social, and cultural issues. Duplicate credit not granted for HIST 111 C.
HIST 112 C  WORLD CIVILIZATIONS I
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a survey of the roots and development of civilizations in Africa, the Americas, Asia, and Europe from the earliest times to 1550 CE. Duplicate credit not granted for HIST 112 C.

HIST 112HC  HONORS WORLD CIVILIZATIONS I
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an enhanced survey of the roots and development of the various civilizations in Africa, the Americas, Asia, and Europe from the earliest times to 1550 CE. Duplicate credit not granted for HIST 112 C.

HIST 113 C  WORLD CIVILIZATIONS II
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a survey of the roots and development of civilizations in Africa, the Americas, Asia, and Europe from 1550 CE to the present. Duplicate credit not granted for HIST 113 C.

HIST 113HC  HONORS WORLD CIVILIZATIONS II
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an enhanced survey of the roots and development of civilizations in Africa, the Americas, Asia, and Europe from 1550 CE to the present. Duplicate credit not granted for HIST 113 C.

HIST 135 C  AFRICAN HISTORY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a survey of African history from the earliest beginnings to contemporary times. A special emphasis is placed on the various cultures of Africa, demography and general chronology of the rise and fall of nation states, and the impact of Western culture through the colonial, neo-colonial, and contemporary periods.

HIST 142 C  HISTORY OF LATIN AMERICA I
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a survey of the history of Latin America from the late pre-Columbian era to the independence period. Emphasis is placed upon European conquest, the interaction of Europeans with Native American and African cultures, and the planting of colonial societies in the regions of Mexico, Central America, the Caribbean, and South America. Spanish, French, Portuguese, British, and Dutch America are compared as to their socio-cultural, economic, and political development during the colonial and independence periods.

HIST 143 C  HISTORY OF LATIN AMERICA II
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a survey of the history of Latin America from the independence period to the present. Emphasis is placed upon: the nation-building process, integration into the world capitalist system, the inequality between the elite classes and the masses, the development of new groups, such as the urban middle and working classes, the conflict between liberalism and the Catholic Church, race relations, challenges of political regimes, relationships during the Cold War, and new global economic models.

HIST 143HC  HONORS HISTORY OF LATIN AMERICA II
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a survey of European conquest, the interaction of Europeans with Native American and African cultures, and the planting of colonial societies in the New World. Spanish America, Brazil, Canada, and the United States are compared as to their socio-cultural, economic, and political development during the colonial and independence periods.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 162BC</td>
<td>HISTORY OF THE AMERICAS</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC Advisory: Eligibility for ENGL 100 C. This course is a comparative study of the political, social, and economic development of the independent nations of the Western hemisphere from the wars of independence to the present. Emphasis is placed upon the present international relations of these nations.</td>
</tr>
<tr>
<td>HIST 163 C</td>
<td>HISTORY OF MEXICO</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC Advisory: Eligibility for ENGL 100 C. This course is a survey of the economic, socio-cultural and political history of Mexico from the pre-Columbian period to the present.</td>
</tr>
<tr>
<td>HIST 165 C</td>
<td>MIDDLE EASTERN HISTORY</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC Advisory: Eligibility for ENGL 100 C. This course covers the historical development of the Middle East from the rise of Middle Eastern civilization to the present, emphasizing the Islamic religion, art, philosophy, and key political and social conflicts of modern times.</td>
</tr>
<tr>
<td>HIST 170 C</td>
<td>HISTORY OF THE UNITED STATES</td>
<td>3</td>
<td>Three hours lecture per week. UC Credit Limitation/CSU, AA GE, CSU GE, IGETC Advisory: Eligibility for ENGL 100 C. This course is a survey of American history from the colonial foundations to 1877. The course satisfies state requirements in American history and institutions for transfer. Duplicate credit not granted for HIST 170C.</td>
</tr>
<tr>
<td>HIST 170HC</td>
<td>HONORS HISTORY OF THE UNITED STATES</td>
<td>3</td>
<td>Three hours lecture per week. UC Credit Limitation/CSU, AA GE, CSU GE, IGETC Advisory: Eligibility for ENGL 100 C. This course is an enhanced survey of American history from the colonial foundations to 1877. This course satisfies state requirements in American history and institutions for transfer. Duplicate credit not granted for HIST 170 C.</td>
</tr>
<tr>
<td>HIST 171 C</td>
<td>HISTORY OF THE UNITED STATES</td>
<td>3</td>
<td>Three hours lecture per week. UC Credit Limitation/CSU, AA GE, CSU GE, IGETC Advisory: Eligibility for ENGL 100 C. This course is a survey of American history from 1877 to the present time. This course satisfies state requirements in American history and institutions for transfer. Duplicate credit not granted for HIST 171HC.</td>
</tr>
<tr>
<td>HIST 171HC</td>
<td>HONORS HISTORY OF THE UNITED STATES</td>
<td>3</td>
<td>Three hours lecture per week. UC Credit Limitation/CSU, AA GE, CSU GE, IGETC Advisory: Eligibility for ENGL 100 C. This course is an enhanced version of survey of American History from 1877 to the present time. This course satisfies state requirements in American History and institutions for transfer. Duplicate credit will not be granted for HIST 171 C.</td>
</tr>
<tr>
<td>HIST 270 C</td>
<td>WOMEN IN UNITED STATES HISTORY</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC Advisory: Eligibility for ENGL 100 C. This course is a survey of the economic, social, intellectual and political history of women in America from colonial times to the present. Special emphasis is placed upon the feminist movements and suffrage struggle of the 19th and 20th centuries.</td>
</tr>
<tr>
<td>HIST 275 C</td>
<td>HISTORY OF CALIFORNIA</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, CSU GE, IGETC, CUL DIV Advisory: Eligibility for ENGL 100 C. This course surveys the economic, social, ethnic, intellectual, and political history of California from the earliest times to the present. Special emphasis is placed upon issues of diversity caused by demographic changes.</td>
</tr>
<tr>
<td>HIST 295 C</td>
<td>RESEARCH METHODS IN ORAL HISTORY</td>
<td>2</td>
<td>(Same as SOSC 295 C) One hour lecture and Three hours laboratory per week. CSU This course introduces the student to the special techniques of tape recorded interviews to document 20th century history. Areas of study will include interviewing techniques, historical editing, and transcripts of interviews. The course does not satisfy General Education requirements in Social Science.</td>
</tr>
<tr>
<td>HIST 298 C</td>
<td>HISTORY SEMINAR</td>
<td>¼ - 12</td>
<td>(Variable Unit Class) (May be taken for credit 1-4 times) Zero to twelve hours lecture and Zero to thirty-six hours laboratory per week. Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade UC Credit Limitation/CSU Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion type course developed on a particular limited problem or topic of interest to students. It is designed for able students who wish to increase their knowledge of a particular topic concerning which no other regular class is offered. A paper or group activity may be requested. Credit may range from ¼ to 12 units. Consult class schedule for the offerings a particular semester. Fees may be required – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>HIST 299 C</td>
<td>HISTORY INDEPENDENT STUDY</td>
<td>1</td>
<td>Varying hours of scheduled conferences per week according to instructor. UC Credit Limitation/CSU Prerequisite: Approved Independent Study Learning Contract. Independent study is for able students who wish to extend their knowledge of a particular area through individual research and study. It is thought that topics might develop out of a curiosity stimulated in a regular class. The student would then contact the supervising instructor to develop a contract for his/her particular interest so that they could learn more regarding their special topic.</td>
</tr>
</tbody>
</table>
Hotel, Restaurant, Culinary Arts
Division of Career Technical Education and Economic Development
Division Dean – Steve Donley

Faculty
Lisa Clark
Jeremy Peters
Stephanie Rosati
Counselor
Robert Grantham

PROGRAM LEARNING OUTCOMES (PLOs)
Hotel, Restaurant & Culinary Arts
A Cypress College student who earns a Certificate from the Hotel, Restaurant, Culinary Arts program in Hotel Management, Foodservice Management or Culinary Arts will:
• Acquire the necessary skills for hospitality/ culinary arts employment to include demonstrated ability in effective communications, customer service, teamwork, cost control, ethical considerations, critical thinking and leadership
• Demonstrate competencies required for hospitality/ culinary employment to include sanitation and safety, nutrition, restaurant and hotel operations, and specialized culinary techniques
• Enhance his/her career and educational opportunities within the hospitality and culinary industry

ASSOCIATE IN SCIENCE DEGREE
CULINARY ARTS Program Code: 1S03813
The Culinary Arts program provides students with basic competencies in the methods of food handling, cooking, and culinary management. It includes exposure to various styles, and proper use of culinary applications and equipment. The program is designed to help students develop a working knowledge of what is required to be successful for fast track culinary management potential.

To earn an Associate Degree students must complete all graduation requirements to include: (1) all major course requirements with a “C” or better; (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.

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:
Course #   Title             Units
HRC 100 C Nutrition 3
HRC 101 C Intro to Hospitality Careers 3
HRC 120 C Sanitation and Safety 3
HRC 125 C Restaurant/Banquet Operations 3
HRC 135 C Basic Cooking Techniques 3
HRC 136 C Baking and Pastry 3
HRC 144 C Quantity Cooking Techniques 3
HRC 152 C Menu Planning and Purchasing 3
HRC 231 C Cost Control in Hospitality 3
HRC 232 C Catering & Event Management 3
HRC 233 C International Gourmet Foods 3
HRC 243 C The Art of Garde Manger 3
HRC 245 C Advanced Cooking Techniques 3
HRC 295 C Hospitality Internship 3
Total Units Required 42

CULINARY ARTS
CERTIFICATE Program Code: 1C21119
The Culinary Arts program provides students with basic competencies in the methods of food handling, cooking, and culinary management. It includes exposure to various styles, and proper use of culinary applications and equipment. The program is designed to help students develop a working knowledge of what is required to be successful for fast track culinary management potential.

To earn a certificate, students must complete the required courses as 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:
Course #   Title             Units
HRC 101 C Intro to Hospitality Careers 3
HRC 120 C Sanitation and Safety 3
HRC 135 C Basic Cooking Techniques 3
HRC 136 C Baking and Pastry 3
Total Units Required 12

BASIC BAKER
CERTIFICATE Program Code: 1K12968
This certificate provides students with the necessary skills and knowledge to gain entry-level employment in baking and pastry.

To earn a certificate, students must complete the required courses as 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:
Course #   Title             Units
HRC 101 C Intro to Hospitality Careers 3
HRC 120 C Sanitation and Safety 3
HRC 135 C Basic Cooking Techniques 3
HRC 136 C Baking and Pastry 3
Total Units Required 12
### BASIC COOK CERTIFICATE  
**Program Code: 1K12969**
This certificate provides students with the necessary skills and knowledge to gain entry-level employment in line cooking.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 101 C</td>
<td>Intro to Hospitality Careers</td>
<td>3</td>
</tr>
<tr>
<td>HRC 120 C</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HRC 135 C</td>
<td>Basic Cooking Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HRC 243 C</td>
<td>The Art of Garde Manger</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required** 12

### ASSOCIATE IN SCIENCE DEGREE FOOD SERVICE MANAGEMENT  
**Program Code: 1S07848**
The Associate of Science Degree in Food Service Management offers comprehensive coursework in restaurant management, hotel food and beverage operations, managed food services and catering. Coursework emphasizes cost control, guest service strategies, supervision best practices, legal aspects, culinary production, nutrition, and the importance of teamwork, effective communication skills, ethical considerations and critical thinking. Students will prepare for a career in the growing restaurant and food service industry.

To earn a certificate, students must complete the required courses as listed with a "C" or better. At least 50 percent of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 100 C</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HRC 101 C</td>
<td>Intro to Hospitality Careers</td>
<td>3</td>
</tr>
<tr>
<td>HRC 120 C</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HRC 125 C</td>
<td>Restaurant/Banquet Operations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 135 C</td>
<td>Basic Cooking Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HRC 144 C</td>
<td>Quantity Cooking Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HRC 152 C</td>
<td>Menu Planning and Purchasing</td>
<td>3</td>
</tr>
<tr>
<td>HRC 164 C</td>
<td>Hospitality Law</td>
<td>3</td>
</tr>
<tr>
<td>HRC 166 C</td>
<td>Managing Guest Relations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 231 C</td>
<td>Cost Control in Hospitality</td>
<td>3</td>
</tr>
<tr>
<td>HRC 232 C</td>
<td>Catering &amp; Event Management</td>
<td>3</td>
</tr>
<tr>
<td>HRC 295 C</td>
<td>Hospitality Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required** 36

### FOOD SERVICE MANAGEMENT CERTIFICATE  
**Program Code: 1C21120**
The Food Service Management Certificate offers comprehensive coursework in restaurant management, hotel food and beverage operations, managed food services and catering. Coursework emphasizes cost control, guest service strategies, supervision best practices, legal aspects, culinary production, nutrition, and the importance of teamwork, effective communication skills, ethical considerations and critical thinking. Students will prepare for a career in the growing restaurant and food service industry.

To earn a certificate, students must complete the required courses as listed with a “C” or better. At least 50 percent of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 101 C</td>
<td>Intro to Hospitality Careers</td>
<td>3</td>
</tr>
<tr>
<td>HRC 120 C</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HRC 125 C</td>
<td>Restaurant/Banquet Operations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 135 C</td>
<td>Basic Cooking Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HRC 164 C</td>
<td>Hospitality Law</td>
<td>3</td>
</tr>
<tr>
<td>HRC 166 C</td>
<td>Managing Guest Relations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 231 C</td>
<td>Cost Control in Hospitality</td>
<td>3</td>
</tr>
<tr>
<td>HRC 232 C</td>
<td>Catering &amp; Event Management</td>
<td>3</td>
</tr>
<tr>
<td>HRC 295 C</td>
<td>Hospitality Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required** 36

### DINING ROOM OPERATIONS CERTIFICATE  
**Program Code: 1K12979**
This certificate provides students with the necessary skills and knowledge to gain entry level employment as a dining room server.

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

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 101 C</td>
<td>Intro to Hospitality Careers</td>
<td>3</td>
</tr>
<tr>
<td>HRC 120 C</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HRC 125 C</td>
<td>Restaurant/Banquet Operations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 166 C</td>
<td>Managing Guest Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required** 12

### ASSOCIATE IN SCIENCE DEGREE HOTEL MANAGEMENT  
**Program Code: 1S03763**
The Associate of Science Degree in Hotel Management offers comprehensive coursework in rooms operations, revenue management, food and beverage, event management, human resources, marketing and support operations. Coursework emphasizes guest service strategies, leadership best practices, cost control, legal aspects, ethical considerations and the importance of effective communication skills, teamwork, and critical thinking. Students will prepare for a career in the dynamic hospitality industry and/or transfer to a four year university.

To earn an Associate Degree, students must complete all graduation requirements to include (1) all major course requirements with a "C" or better; (2) 25 units of General Education Graduation Requirements; (3) the cultural diversity and reading requirements; (4) any elective courses to complete a total 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 100 C</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HRC 101 C</td>
<td>Intro to Hospitality Careers</td>
<td>3</td>
</tr>
<tr>
<td>HRC 120 C</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HRC 125 C</td>
<td>Restaurant/Banquet Operations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 135 C</td>
<td>Basic Cooking Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HRC 164 C</td>
<td>Hospitality Law</td>
<td>3</td>
</tr>
<tr>
<td>HRC 166 C</td>
<td>Managing Guest Relations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 231 C</td>
<td>Cost Control in Hospitality</td>
<td>3</td>
</tr>
<tr>
<td>HRC 232 C</td>
<td>Catering &amp; Event Management</td>
<td>3</td>
</tr>
<tr>
<td>HRC 295 C</td>
<td>Hospitality Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required** 36

212 / Hotel, Restaurant, Culinary Arts
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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 101 C</td>
<td>Intro to Hospitality Careers</td>
<td>3</td>
</tr>
<tr>
<td>HRC 120 C</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HRC 125 C</td>
<td>Restaurant/Banquet Operations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 160 C</td>
<td>Rooms Division Operations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 164 C</td>
<td>Hospitality Law</td>
<td>3</td>
</tr>
<tr>
<td>HRC 166 C</td>
<td>Managing Guest Relations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 230 C</td>
<td>Hotel Management</td>
<td>3</td>
</tr>
<tr>
<td>HRC 231 C</td>
<td>Cost Control in Hospitality</td>
<td>3</td>
</tr>
<tr>
<td>HRC 232 C</td>
<td>Catering &amp; Event Management</td>
<td>3</td>
</tr>
<tr>
<td>HRC 295 C</td>
<td>Hospitality Internship</td>
<td>3</td>
</tr>
<tr>
<td>ECON 105 C</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>36</td>
</tr>
</tbody>
</table>

HOTEL OPERATIONS CERTIFICATE  
Program Code: 1C21121
The Hotel Operations Certificate offers coursework in rooms operations, revenue management, food and beverage, event management, human resources, marketing, and support operations. Coursework emphasizes guest service strategies, effective communication skills, teamwork, leadership, cost control, ethics and critical thinking. Students will prepare for a career in the dynamic hotel industry.

To earn a certificate, students must complete the required courses as listed with a “C” or better. At least 50 percent of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 101 C</td>
<td>Intro to Hospitality Careers</td>
<td>3</td>
</tr>
<tr>
<td>HRC 120 C</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HRC 125 C</td>
<td>Restaurant/Banquet Operations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 160 C</td>
<td>Rooms Division Operations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 164 C</td>
<td>Hospitality Law</td>
<td>3</td>
</tr>
<tr>
<td>HRC 166 C</td>
<td>Managing Guest Relations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 230 C</td>
<td>Hotel Management</td>
<td>3</td>
</tr>
<tr>
<td>HRC 231 C</td>
<td>Cost Control in Hospitality</td>
<td>3</td>
</tr>
<tr>
<td>HRC 232 C</td>
<td>Catering &amp; Event Management</td>
<td>3</td>
</tr>
<tr>
<td>HRC 295 C</td>
<td>Hospitality Internship</td>
<td>3</td>
</tr>
<tr>
<td>ECON 105 C</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>36</td>
</tr>
</tbody>
</table>

RESTAURANT/LODGING ENTREPRENEUR CERTIFICATE  
Program Code: 1K12985
This certificate provides students with the necessary skills and knowledge to start, manage and promote their own restaurant, inn, or bed & breakfast establishment. Students who complete the program will learn about guest relations, customer service, basic management techniques, food handling and preparation, marketing and sales of their own small business.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 121 C</td>
<td>ServsafeFood Safety</td>
<td>½</td>
</tr>
<tr>
<td>HRC 135 C</td>
<td>Basic Cooking Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HRC 160 C</td>
<td>Front Office Operations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 166 C</td>
<td>Managing Guest Relations</td>
<td>3</td>
</tr>
<tr>
<td>MKT 208 C</td>
<td>Principles of Selling</td>
<td>3</td>
</tr>
<tr>
<td>or MKT 222 C</td>
<td>Principles of Marketing</td>
<td>(3)</td>
</tr>
<tr>
<td>MKT 261 C</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>15½</td>
</tr>
</tbody>
</table>

ROOMS OPERATIONS CERTIFICATE  
(formerly Front Desk Operations)  
Program Code: 1K12980
The Rooms Operations Certificate offers coursework in hotel front office operations, housekeeping, maintenance, security, guest relations and leadership philosophy. Students will prepare for entry-level employment in a hotel rooms division.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 101 C</td>
<td>Intro to Hospitality Careers</td>
<td>3</td>
</tr>
<tr>
<td>HRC 166 C</td>
<td>Managing Guest Relations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 230 C</td>
<td>Hotel Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>12</td>
</tr>
</tbody>
</table>

SPECIAL EVENT MANAGEMENT CERTIFICATE  
Program Code: 1K17140
The Special Event Management field is a large part of the local economy. Students will learn skills and knowledge necessary for success in the special event management field. This skill certificate provides students with entry-level skills and knowledge to transition into this rapidly growing field.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRC 101 C</td>
<td>Intro to Hospitality Careers</td>
<td>3</td>
</tr>
<tr>
<td>HRC 125 C</td>
<td>Restaurant/Banquet Operations</td>
<td>3</td>
</tr>
<tr>
<td>HRC 232 C</td>
<td>Catering &amp; Event Management</td>
<td>3</td>
</tr>
<tr>
<td>HRC 295 C</td>
<td>Hospitality Internship</td>
<td>3</td>
</tr>
<tr>
<td>ECON 105 C</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Units Required</td>
<td>15</td>
</tr>
</tbody>
</table>

HOSPITALITY, RESTAURANT, CULINARY ARTS TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.
Hotel, Restaurant, Culinary Arts (HRC)

HRC 100 C  NUTRITION
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE
This course is a study of the interactions between food and a living organism. Course includes the role of carbohydrates, fats, protein, vitamins, water, minerals, alcohol and drugs in nutritional status. Emphasis is on the practical application of nutritional information to the individual diet and the recognition of nutrition misinformation.

HRC 101 C  INTRODUCTION TO HOSPITALITY CAREERS
3 Units
Three hours lecture per week.
This course provides an overview of operations and career opportunities in the global hospitality and culinary arts industry, including lodging, restaurants, culinary arts, baking and pastry, managed services, cruise industry, gaming entertainment, private clubs, meeting planning and special event management. Students will prepare a personalized career project.

HRC 120 C  SANITATION AND SAFETY
3 Units
Three hours lecture per week.
CSU
This course will acquaint students with sanitation and safety principles and prepare students for the national food handler’s certification examination. Course content includes strategies to identify and prevent foodborne illness, the flow of food through food service operations and sanitation management.

HRC 121 C  SERVSAFE FOOD SAFETY
½ Unit
One half hour lecture per week.
CSU
A short course designed to acquaint industry employees with food safety and sanitation principles and prepare them to take the Food Safety Certification exam. A certified food handler is required in all California restaurant establishments.

HRC 125 C  RESTAURANT/BANQUET OPERATIONS
3 Units
Two hours lecture and Four hours laboratory per week.
CSU
Advisory: Completion of or concurrent enrollment in HRC 101 C or HRC 120 C. This course acquaints students with restaurant and banquet operations through theoretical studies and hands on practice. Topics include service styles, guest service, food and wine pairings, staffing, mise en place, cost control and the leadership skills required to effectively manage restaurant and banquet operations. $50.00 Laboratory Fee – PAYABLE AT REGISTRATION.

HRC 126 C  BAKING AND PASTRY
3 Units
Three hours lecture and Four hours laboratory per week.
CSU
This course is a study of the interactions between food and a living organism. Course includes the role of carbohydrates, fats, protein, vitamins, water, minerals, alcohol and drugs in nutritional status. Emphasis is on the practical application of nutritional information to the individual diet and the recognition of nutrition misinformation.

HRC 130 C  RESTAURANT OPERATIONS
3 Units
Four hours laboratory per week.
CSU
This course will acquaint students with restaurant and banquet operations. Students will learn hotel best practices to manage restaurant and banquet operations. $50.00 Laboratory Fee – PAYABLE AT REGISTRATION.

HRC 132 C  CHEF TECHNIQUES
3 Units
Three hours lecture per week.
CSU
This course will acquaint students with the history of great cuisine. Students will study the principles, skills, and techniques associated with culinary arts, including preparing various foods using various cooking methods including classic and modern techniques. Students will also learn to identify various kitchen staples, food products, and equipment used within the commercial food operation. $75.00 Materials Fee – PAYABLE AT REGISTRATION.

HRC 135 C  BASIC COOKING TECHNIQUES
3 Units
Two hours lecture and Four hours laboratory per week.
CSU
Advisory: Completion of or concurrent enrollment in HRC 120 C. Great cuisine rests on the mastery of seemingly simple preparations and techniques that determine the quality of the final product. The most crucial of these is knife skills. Students will be introduced to the principles, skills, and techniques associated with culinary arts, involving various cooking methods including classic and modern techniques. Students will also learn to identify various kitchen staples, food products, and equipment used within the commercial food operation. $75.00 Materials Fee – PAYABLE AT REGISTRATION.

HRC 136 C  BAKING AND PASTRY
3 Units
Two hours lecture and Four hours laboratory per week.
CSU
Advisory: HRC 120 C. All well-executed desserts rely on a mastery of fundamental techniques. This course will focus on the history of baking, terminology, ingredients, equipment, storage and sanitation in the bakeshop. Students will gain experience in using various mixing, holding and baking methods as well as international techniques to create an assortment of yeast dough, quick breads, prepare enriched yeast dough, cookies, pies, tarts and cakes. $75.00 Materials Fee – PAYABLE AT REGISTRATION.

HRC 144 C  QUANTITY COOKING TECHNIQUES
3 Units
Two hours lecture and Four hours laboratory per week.
CSU
Advisory: Completion of or concurrent enrollment in HRC 120 C and HRC 135 C. The production kitchen is the backbone of every major commercial food operation. Students will be introduced to the principles of quantity food production; standardized recipes; quality and hazard analysis; yields and principles of cooking in quantity. Students will become familiar with a wide variety of equipment utilized in production kitchens. $75.00 Materials Fee – PAYABLE AT REGISTRATION.

HRC 152 C  MENU PLANNING AND PURCHASING
3 Units
Three hours lecture per week.
CSU
Advisory: MATH 015 C. This course examines the principles of menu planning, hospitality procurement, purchasing, receiving, and inventory techniques. Strategies for menu analysis, standardized recipes, menu layout and design relating to profitable hospitality operations will be explored.

HRC 160 C  ROOMS DIVISION OPERATIONS
3 Units
Three hours lecture per week.
CSU
Advisory: ENGL 060 C. This course presents an overview of hotel rooms division operations from reservations through guest stay and account settlement. Students will learn hotel best practices to include revenue management, preventative maintenance, property management systems, supervision, cost control, staffing, sales techniques and guest relations.
HRC 164 C  HOSPITALITY LAW  
3 Units  
Three hours lecture per week.  
CSU  
Advisory: ENGL 060 C. This course presents legal aspects of managing hospitality operations with an emphasis on compliance best practices and prevention of liabilities. Topics include serving food safely, responsible alcohol service, selecting and managing employees, regulatory concerns, property management, hospitality operating structures, common contracts, safety and security, and crisis management.

HRC 166 C  MANAGING GUEST RELATIONS  
3 Units  
Three hours lecture per week.  
CSU  
This course is designed to provide the student with the basic knowledge of “service” and how it applies to managing guest relations. Service will be examined from the perspective of those who deliver it and those who manage it. A pragmatic approach to the problems of personnel management in the hospitality and travel industry will be discussed.

HRC 230 C  HOTEL MANAGEMENT  
3 Units  
Three hours lecture per week.  
CSU  
Advisory: Completion of or concurrent enrollment in HRC 101 C. Students will be introduced to management theory and responsibilities in the hospitality industry including rooms division, food and beverage, engineering, security, marketing, sales, accounting, information management and human resources. Franchises, referral and management organizations, market analyses, feasibility studies, management contracts and product segmentation will also be covered.

HRC 231 C  COST CONTROL IN HOSPITALITY  
3 Units  
Three hours lecture per week.  
CSU  
This course presents the principles of cost control and revenue management. Topics include: managing revenue and expenses, determining sales forecasts, managing the cost of food, beverages and labor, the production process, pricing, analyzing results, planning for profits, maintaining a revenue control system and using technology to enhance controls. Students learn to identify and solve problems to help keep costs low and profit margins high in hospitality operations.

HRC 232 C  CATERING & EVENT MANAGEMENT  
3 Units  
Three hours lecture per week.  
CSU  
This course covers the marketing and management of catering on and off premises, including special functions. It includes planning, financing, organizing, marketing and operating a catering service. Emphasis is on creating and managing various catered activities.

HRC 233 C  INTERNATIONAL GOURMET FOODS  
3 Units  
Two hours lecture and  
Four hours laboratory per week.  
CSU  
Advisory: Completion of or concurrent enrollment in HRC 120 C and HRC 135 C. This culinary "tour of the world" includes product identification, correct utilization and cooking methods from around the world. This course focuses on a global perspective of the symbolic, social, political, and economic role of food in different cultures, examines the geographical and historical conditions that give rise to various regional cuisines. Students will have the opportunity to produce ethnic foods while researching the influence of culture on the development of international cuisines. $75.00 Materials Fee – PAYABLE AT REGISTRATION.

HRC 236 C  ADVANCED BAKING AND PASTRY  
3 Units  
Two hours lecture and  
Four hours laboratory per week.  
CSU  
Advisory: HRC 120 C and HRC 136 C. Candy making, cake decorating, and dessert plating represent the ultimate fusion of art and craft. This course focuses on advanced pastries and baked products, restaurant style desserts, candies, and cake decorating. Products include plated desserts, frozen desserts, tortes, cakes, sauces, pulled sugar and chocolate work. Emphasis will be placed on commercial production of high quality products and professional presentation. $95.00 Materials Fee – PAYABLE AT REGISTRATION.

HRC 243 C  THE ART OF GARDE MANGER  
3 Units  
Two hours lecture and  
Four hours laboratory per week.  
CSU  
Advisory: Completion of or concurrent enrollment in HRC 120 C and HRC 135 C. Hors d'oeuvres and appetizers challenge the chef to create masterpieces in miniature. This course will focus on the discussion and application of the art of Garde Manger to include hot and cold horsd’oeuvres (canapés, finger sandwiches and savories); cold set mousses; the principles and applications necessary for sausage making; concepts and application of salt curing of meats and fish items and principles of smoking. $95.00 Materials Fee – PAYABLE AT REGISTRATION.

HRC 245 C  ADVANCED COOKING TECHNIQUES  
3 Units  
Two hours lecture and  
Four hours laboratory per week.  
CSU  
Advisory: Completion of or concurrent enrollment in HRC 120 C and HRC 135 C and HRC 144 C. Great chefs rest on mastering the advance techniques utilized in today’s commercial kitchens. The most crucial is flavor development, which students begin to learn at the start of their studies. Students will be introduced to the principles, skills, and techniques associated with advanced culinary arts, involving fabrication and identification of common proteins utilized in commercial operations. $75.00 Materials Fee – PAYABLE AT REGISTRATION.
ASSOCIATE IN ARTS DEGREE
HUMAN SERVICES  Program Code: 1A03803
The Human Services Program for the Associate in Arts Degree prepares students for a variety of careers in public and private social service agencies. Course work includes completion of 24 units plus 12 elective units in one or more specialty areas of Alcohol and Drug Studies, Conflict Resolution, Criminal Justice, Family Studies, Gerontology, Human Services Generalist, and Victimology.

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) with an overall GPA of 2.0. At least 50 percent 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 200 C</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 222 C</td>
<td>Group Leadership and Group Process</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 224 C</td>
<td>Self-Esteem Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 210 C</td>
<td>Introductory Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 225 C</td>
<td>Families and Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 241 C</td>
<td>Intervention Treatment and Recovery</td>
<td>3</td>
</tr>
<tr>
<td>PSY 139 C</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 211 C</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of 12 units from the elective courses listed below

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 140 C</td>
<td>Educational Planning</td>
<td>1/2</td>
</tr>
<tr>
<td>ETHS 100 C</td>
<td>American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 100HC</td>
<td>Honors American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 215 C</td>
<td>Introduction to Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 221 C</td>
<td>Crisis Intervention &amp; Referral</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 223 C</td>
<td>Helping Skills in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 226 C</td>
<td>Behavior Modification Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/SOC 250 C</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/PSY 255 C</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 291 C</td>
<td>Counseling in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/SOC/292 C</td>
<td>Introduction to Criminology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 294 C</td>
<td>Careers in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 240 C</td>
<td>Drugs &amp; Alcohol in Our Society</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 242 C</td>
<td>Drugs and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 243 C</td>
<td>Co-Occurring Disorders</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 270 C</td>
<td>Introduction to Victimology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 271 C</td>
<td>Society and Victimization</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 275 C</td>
<td>Ethical Issues in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 280 C</td>
<td>Employee Assistance Programs: Public and Private</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 281 C</td>
<td>Prevention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 293 C</td>
<td>Conflict Resolution/Mediation</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 36

Electives (Select 12 units from below)

COUN 140 C, ETHS 100 C, or ETHS 100HC, and any additional courses from the following list

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 240 C</td>
<td>Drugs &amp; Alcohol in Our Society</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 242 C</td>
<td>Drugs and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 243 C</td>
<td>Co-Occurring Disorders</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 270 C</td>
<td>Introduction to Victimology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 271 C</td>
<td>Society and Victimization</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 275 C</td>
<td>Ethical Issues in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 280 C</td>
<td>Employee Assistance Programs: Public and Private</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 281 C</td>
<td>Prevention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 293 C</td>
<td>Conflict Resolution/Mediation</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 12

HRC 295 C  HOSPITALITY INTERNSHIP
3 Units
One hour lecture and
Fifteen hours laboratory per week.
CSU
Prerequisite: Completion of first year hotel, food service or culinary arts program recommended. The Hospitality Internship class is the link between academic learning and industry experience. This course requires a minimum of 255 hours work experience with an instructor approved employer in the hotel, restaurant or culinary arts field. Students will compile a comprehensive career portfolio.

HRC 298 C  HOSPITALITY SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to ninety hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This course is for students who wish to increase their knowledge of the hotel, restaurant, and/or culinary arts industries. Various topics will be offered. Unit credit may range from ½ to 12 units in any given semester. Consult the class schedule to verify credit for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

Human Services

Division of Social Science

Division Dean, Nina DeMarkey

Faculty
Virgil Adams, III
Gary Zager

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.
HUMAN SERVICES CERTIFICATE PROGRAMS
The Human Services Department includes certificate programs in Alcohol and Drug Studies, Conflict Resolution, Criminal Justice, Family Studies (Basic and Advanced), Gerontology, Human Services Generalist, and Victimology. Each specialization recommends a core of required courses including fieldwork experience, and 6 to 12 units of specialization courses. The curricula are designed so that students with interests in several areas can complete more than one certificate program in an effective and efficient manner. The California Association of Alcohol/Drug Educators approves the Alcohol and Drug Certificate program. The Conflict Resolution Certificate prepares students to assist in the resolution of conflict in various settings including home and work with an emphasis on human relations in business, management positions in treatment facilities, and issues in victimology and cross-cultural conflict. The Criminal Justice Certificate will prepare students to work with Human Service agencies that provide services to clients coming from the criminal justice system. Family Studies Certificates offer the student the opportunity to examine today’s changing family needs, values and patterns as well as to form the foundation for a career in family studies professions. The Gerontology Certificate explores appropriate human service agencies, intervention strategies, and the adaptive and maladaptive behaviors of the normal aging process for the individual and their family. The Victimology Certificate examines the network of agencies available for victims and perpetrators as well as the variety of methods for dealing with this issue. The Human Services Generalist Certificate has training applicable in all Human Service areas.

ALCOHOL AND DRUG STUDIES CERTIFICATE  Program Code: 1C07845
To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 200 C</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>PSY 139 C</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 210 C</td>
<td>Introductory Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 211 C</td>
<td>Advanced Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 225 C</td>
<td>Families and Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 240 C</td>
<td>Drugs &amp; Alcohol in Our Society</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 241 C</td>
<td>Intervention Treatment and Recovery</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 242 C</td>
<td>Drugs and Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of 12 units from the elective courses listed below

Total Units Required 36

Electives

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 140 C</td>
<td>Educational Planning</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 100 C</td>
<td>American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 100HC</td>
<td>Honors American Ethnic Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

CRIMINAL JUSTICE CERTIFICATE  Program Code: 1C12113
This program offers those entering or working in human services the opportunity to examine and practice a variety of communication skills useful in the resolution of conflict.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 223 C</td>
<td>Helping Skills in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 224 C</td>
<td>Self-Esteem Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 225 C</td>
<td>Ethical Issues in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 210 C</td>
<td>Introductory Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 290 C</td>
<td>Human Services in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 291 C</td>
<td>Counseling in Criminal Justice</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of 9 units from elective courses below

Total Units Required 36

Electives (Select 9 units from the list below)

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 221 C</td>
<td>Crisis Intervention &amp; Referral</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 240 C</td>
<td>Drugs &amp; Alcohol in Our Society</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 241 C</td>
<td>Intervention Treatment and Recovery</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 242 C</td>
<td>Drugs and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 270 C</td>
<td>Introduction to Victimology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 271 C</td>
<td>Society and Victimization</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 293 C</td>
<td>Conflict Resolution/Mediation</td>
<td>3</td>
</tr>
</tbody>
</table>
**FAMILY STUDIES (BASIC) CERTIFICATE**  Program Code: 1K03792
The Family Studies (BASIC) Certificate Program in Human Services is designed to prepare the student for the personal challenges of relationships and child rearing as well as to form a foundation for a career in the Family Studies professions.

To earn a certificate, students must complete the required courses as 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 215 C</td>
<td>Introduction to Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>PSY 139 C</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 215 C</td>
<td>Parenting Skills</td>
<td>3</td>
</tr>
<tr>
<td>SOC 275 C</td>
<td>Marriage and Family</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of 3 units from the elective courses listed below.

**Total Units Required: 15**

**Electives (Select 3 units from the list below.)**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 140 C</td>
<td>Educational Planning</td>
<td>1/6</td>
</tr>
<tr>
<td>ENGL 239 C</td>
<td>Survey-Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 224 C</td>
<td>Self-Esteem Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 240 C</td>
<td>Drugs &amp; Alcohol in Our Society</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/Psy 255 C</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/SOC 250 C</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 270 C</td>
<td>Introduction to Victimology</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 120 C</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
</tbody>
</table>

**FAMILY STUDIES (ADVANCED) CERTIFICATE**  Program Code: 1C10452
The Family Studies (ADVANCED) Certificate Program in Human Services is designed as a more complete examination of the many individual and family needs resulting from changing family patterns. Needed skills include parenting in a variety of family situations, communicating in healthy relationships, caregiving in intergenerational families and coping with stress. This program prepares the student in three ways: (1) Providing courses as personal enrichment for the families and individuals in the community (2) Training Human Service workers for employment in schools, health and mental health agencies, rehabilitation centers, halfway houses, senior centers and as support persons to law enforcement and other community agencies (3) Providing the first two years of courses for Family Studies professions such as therapist and administrator which require further college education.

To earn a certificate, students must complete the required courses as 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 200 C</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 215 C</td>
<td>Introduction to Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 250 C</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/Psy 255 C</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required: 15**

**Select 3 units from the elective courses listed below.**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 225 C</td>
<td>Families and Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 221 C</td>
<td>Crisis Intervention &amp; Referral</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 222 C</td>
<td>Group Leadership and Group Process</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 275 C</td>
<td>Ethical Issues in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 250 C</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>PSY 139 C</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 240 C</td>
<td>Drugs &amp; Alcohol in Our Society</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 210 C</td>
<td>Introductory Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 211 C</td>
<td>Advanced Fieldwork</td>
<td>3</td>
</tr>
</tbody>
</table>

**GERONTOLOGY CERTIFICATE**  Program Code: 1K07842
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, students must complete the required courses as 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 200 C</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 215 C</td>
<td>Introduction to Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 250 C</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/Psy 255 C</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required: 15**

**Select 3 units from the elective courses listed below.**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 225 C</td>
<td>Families and Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 221 C</td>
<td>Crisis Intervention &amp; Referral</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 222 C</td>
<td>Group Leadership and Group Process</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 275 C</td>
<td>Ethical Issues in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 250 C</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>PSY 139 C</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 240 C</td>
<td>Drugs &amp; Alcohol in Our Society</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 210 C</td>
<td>Introductory Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 211 C</td>
<td>Advanced Fieldwork</td>
<td>3</td>
</tr>
</tbody>
</table>

**HUMAN SERVICES GENERALIST CERTIFICATE**  Program Code: 1C21122
To earn a certificate, students must complete the required courses as 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 200 C</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 215 C</td>
<td>Introduction to Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 250 C</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/Psy 255 C</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required: 15**

**Select a minimum of 6 units from the elective courses listed below.**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 225 C</td>
<td>Families and Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 221 C</td>
<td>Crisis Intervention &amp; Referral</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 222 C</td>
<td>Group Leadership and Group Process</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 275 C</td>
<td>Ethical Issues in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 250 C</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>PSY 139 C</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 240 C</td>
<td>Drugs &amp; Alcohol in Our Society</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 210 C</td>
<td>Introductory Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 211 C</td>
<td>Advanced Fieldwork</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required: 12**
Cypress College 2010-2011

Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 140 C</td>
<td>Educational Planning</td>
<td>½</td>
</tr>
<tr>
<td>ETHS 100 C</td>
<td>American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>or ETHS 100HC</td>
<td>Honors American Ethnic Studies</td>
<td>(3)</td>
</tr>
<tr>
<td>HUSR 211 C</td>
<td>Introduction to Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 221 C</td>
<td>Crisis Intervention &amp; Referral</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 223 C</td>
<td>Helping Skills in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 226 C</td>
<td>Behavior Modification Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 240 C</td>
<td>Drugs &amp; Alcohol In Our Society</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 242 C</td>
<td>Drugs and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 243 C</td>
<td>Co-Occurring Disorders</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/SOC 250 C</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/PSY 255 C</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 270 C</td>
<td>Introduction to Victimology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 271 C</td>
<td>Society and Victimization</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 275 C</td>
<td>Ethical Issues in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 280 C</td>
<td>Employee Assistance Programs:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Public and Private</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 281 C</td>
<td>Prevention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 291 C</td>
<td>Counseling in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>HUSR/SOC 292 C</td>
<td>Introduction to Criminal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 294 C</td>
<td>Careers in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 120 C</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
</tbody>
</table>

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, students must complete the required courses as 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:

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<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>HUSR 200 C</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 210 C</td>
<td>Introductory Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 211 C</td>
<td>Advanced Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 221 C</td>
<td>Group Leadership and Group Process</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 223 C</td>
<td>Helping Skills in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 224 C</td>
<td>Self-Esteem Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 226 C</td>
<td>Behavior Modification Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 240 C</td>
<td>Drugs &amp; Alcohol In Our Society</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 270 C</td>
<td>Introduction to Victimology</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 271 C</td>
<td>Society and Victimization</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 275 C</td>
<td>Ethical Issues in Human Services</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of 9 units from the elective courses listed below:

| Total Units Required | 30 |

Electives (Select 9 units from below.)

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 140 C</td>
<td>Educational Planning</td>
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<tr>
<td>ETHS 100 C</td>
<td>American Ethnic Studies</td>
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<td>or ETHS 100HC</td>
<td>Honors American Ethnic Studies</td>
<td>(3)</td>
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<tr>
<td>HUSR 221 C</td>
<td>Crisis Intervention &amp; Referral</td>
<td>3</td>
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<tr>
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<td>Group Leadership and Group Process</td>
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<td>Drugs &amp; Alcohol In Our Society</td>
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</tr>
<tr>
<td>HUSR 275 C</td>
<td>Ethical Issues in Human Services</td>
<td>3</td>
</tr>
<tr>
<td>PSY 139 C</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

OFF-CAMPUS PROGRAMS

Cypress’ Human Services Department provides flexible, off-campus courses and workshops to further meet the education and training needs of human services. Specially designed training is available to meet the needs of community leaders, professionals, paraprofessionals, volunteers, community groups and organizations. For further information, contact the Human Services Department.

TRANSFER PROGRAM - HUMAN SERVICES

The student in human services has the option of completing an Associate in Arts degree with a major in Human Services by completing the general education requirements in addition to the Certificate Program. The program is also designed for students who plan to continue with professional preparation at the university level in social work, human services, criminal justice, gerontology, counseling, and related social service fields.

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Human Services (HUSR)

HUSR 084 C  INTRODUCTION TO BEHAVIOR MODIFICATION

½ Unit

One-half hour lecture per week.

This course is for individuals working in programs for developmentally disabled persons, as well as those interested in the field. It will cover basic information about behaviorally oriented work with such clients, including content on behavior modification, teaching methods and ways to encourage clients.

HUSR 200 C  INTRODUCTION TO HUMAN SERVICES

3 Units

Three hours lecture per week.

CSU, CSU GE

This course covers the history and philosophy of the human services; function and orientation of human services agencies and institutions; human services as careers; opportunities and qualifications at various entry levels of human services employment.

HUSR 210 C  INTRODUCTORY FIELDWORK

3 Units

One hour lecture per week and
Six hours and forty-five minutes fieldwork per week.

Pass/No Pass/Letter Grade Option

CSU

This course offers observation and participation in the operations of human services agencies. The student will document 125 hours of supervised field study per semester and will attend one hour lecture per week.

HUSR 211 C  ADVANCED FIELDWORK

3 Units

One hour lecture per week and
Six hours and forty-five minutes fieldwork per week.

Pass/No Pass/Letter Grade Option

CSU

Prerequisite: HUSR 210 C. This course is the second of a two-semester sequence of volunteer or paid fieldwork experience. The student will apply values, concepts and skills of core human services courses to the actual process of helping people. Emphasis of this semester is on sharpening skills and knowledge gained in the introductory field experience. There is one hour of classroom experience per week.
Cypress College 2010-2011

**HUSR 215 C  INTRODUCTION TO FAMILY STUDIES**  
*3 Units*  
*Three hours lecture per week.*  
*CSU*  
This course involves intergenerational family studies and related career exploration to introduce Human Services students to family issues and to skills, theories, and competencies needed to empower families for reaching their goals. Various family issues, family/worker relationships, strength-based assessments, resource referral/utilization, community service coordination, and family and worker stress management are covered.

**HUSR 221 C  CRISIS INTERVENTION & REFERRAL**  
*3 Units*  
*Three hours lecture per week.*  
*CSU*  
This course introduces techniques for beginning crisis counseling, including recognition of crisis, assessment of crisis, and referral to the appropriate crisis agency. Special attention will be given to the process of intervention and to the recording of information regarding problems with alcohol and other drugs. Participants will implement a variety of crisis skills through an experiential format.

**HUSR 222 C  GROUP LEADERSHIP/GROUP PROCESS**  
*3 Units*  
*Three hours lecture per week.*  
*CSU*  
This course examines membership and leadership in a variety of groups, with emphasis on the total group process. An overview of the various types of groups will be given as well as the values and limitations of groups, cautions and risks of groups and common misconceptions about groups. The student will be offered experience as a group member and a group leader.

**HUSR 223 C  HELPING SKILLS - HUMAN SERVICES**  
*3 Units*  
*Three hours lecture per week.*  
*CSU*  
This course involves identification and application of specific helping skills in intrapersonal and interpersonal relations. It is designed for persons in helping roles, professional and paraprofessional, or volunteers in Human Services.

**HUSR 224 C  SELF-ESTEEM STRATEGIES**  
*3 Units*  
*Three hours lecture per week.*  
*CSU*  
This course is designed for those considering a career in management and staff development in Human Services Agencies, with special application to client after-care programs. Theory and technique are combined in this skills class to assist case managers and program directors with assessment and evaluation, individual recovery program development, educational process and materials, and utilization of resources and referral procedures. This course focuses on issues of self-esteem, concept formation, problem solving, time management, emotional intelligence, and decision making for client and/or staff development.

**HUSR 225 C  FAMILIES AND SUBSTANCE ABUSE**  
*3 Units*  
*Three hours lecture per week.*  
*CSU*  
This course presents the dynamics of the family system as they are affected by addiction. Theories of healthy and unhealthy family interaction are explored and the experiential format provides the opportunity for skill development and practical experience.

**HUSR 226 C  BEHAVIOR MODIFICATION TECHNIQUES**  
*3 Units*  
*Three hours lecture per week.*  
*CSU*  
This course includes both theory and practice in behavior modification principles. It teaches skills such as observing and recording behavior, uses of reinforcement, extinction, punishment, etc. Self management techniques to assist in control of one’s own behavior will also be discussed. Topics have wide application in any course of study and will require dealing effectively with others, or with more effective management of oneself.

**HUSR 228 C  GROUP PROCESS AND PRACTICE**  
*3 Units*  
*Three hours lecture per week.*  
*CSU*  
Advisory: Completion of HUSR 222 C. This course will investigate group dynamics and process as they relate to group theory. Students will participate in group change and counseling demonstrations in class. Related legal and ethical issues will be discussed.

**HUSR 240 C  DRUGS & ALCOHOL IN OUR SOCIETY**  
*3 Units*  
*Three hours lecture per week.*  
*CSU*  
This is an introductory course for individuals in any area of human services who desire to increase their knowledge regarding problems resulting from drug and/or alcohol abuse and addiction. This course will cover the basic casual theories of alcoholism, identification of signs and symptoms, dispel “myths” and provide information on past and current treatment modalities. Students will be introduced to the history of drug use in general; their misuse and abuse, including societal methods implemented for their regulation and control.

**HUSR 241 C  INTERVENTION STRATEGIES**  
*3 Units*  
*Three hours lecture per week.*  
*CSU*  
This course will serve as an assessment and treatment approach to individuals having problems with alcohol and other drugs. Alcoholism will be studied in its social and clinical context. Attention will be given to basic theoretical approaches to the disease. Major emphasis will be on the philosophical and clinical approaches to treating the alcoholic and to promoting recovery.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 242 C</td>
<td>DRUGS AND PHYSIOLOGY</td>
<td>3</td>
<td>Three hours lecture per week. CSU This course explores the effects of alcohol and other drugs on the body. It examines the physiology of alcohol in two areas: (1) physical effects of alcohol on the body, and (2) the physiological effects of the disease processes associated with heavy drinking.</td>
</tr>
<tr>
<td>HUSR 243 C</td>
<td>CO-OCCLUDING DISORDERS</td>
<td>3</td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option CSU This course will introduce the student to the treatment needs of those who have a psychiatric disorder in combination with a chemical dependency disorder. Students learn to identify and assess those with a dual diagnosis/co-occurring disorder.</td>
</tr>
<tr>
<td>HUSR 250 C</td>
<td>SOCIOLOGY OF AGING</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC The course explores the concept of aging and sociological/cultural theories of aging. The gender, cross-cultural, economic, political and social policy aspects of aging in society and the world are examined. Critical life issues for elders and for those who live and work with them are explored. These issues include empowerment, care giving, social support, living arrangements, elder abuse, work, retirement, quality of life and death and dying. Duplicate credit not granted for SOC 250 C.</td>
</tr>
<tr>
<td>HUSR 255 C</td>
<td>PSYCHOLOGY OF AGING</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC This course examines the biological, physiological, cognitive, personality, developmental, intimacy and sexual aspects of the ongoing aging process. Critical life issues for elders and for those who live and work with them will be explored. These issues include physical health, mental health, health care policy, care giving, dependency, and positive aging strategies. Duplicate credit not granted for PSY 255 C.</td>
</tr>
<tr>
<td>HUSR 270 C</td>
<td>INTRODUCTION TO VICTIMOLOGY</td>
<td>3</td>
<td>Three hours lecture per week. CSU This course responds to the emerging social concern regarding the cost of victimization to our society today. It provides education, information on existing resources, and direct participation in the creation and expansion of existing resources of treatment and recovery of victims and perpetrators.</td>
</tr>
<tr>
<td>HUSR 271 C</td>
<td>SOCIETY AND VICTIMIZATION</td>
<td>3</td>
<td>Three hours lecture per week. CSU This course will provide an understanding of the social problems of victimization with in-depth focus on both perpetrator and victim. Specific issues will be explored including their genesis and specific methods of identifying issues regarding self-help and support activities from a clinical approach.</td>
</tr>
<tr>
<td>HUSR 275 C</td>
<td>ETHICAL ISSUES IN HUMAN SERVICES</td>
<td>3</td>
<td>Three hours lecture per week. CSU This course presents the rules and standards governing the professional conduct of those working in Human Services Agencies. Issues of client/patient rights, confidentiality, physical and emotional abuse, and counselor/client relationships will be explored in great depth.</td>
</tr>
<tr>
<td>HUSR 280 C</td>
<td>EMPLOYEE ASSISTANCE PROGRAMS: PUBLIC AND PRIVATE</td>
<td>3</td>
<td>Three hours lecture per week. CSU This course presents a conceptual framework for the development and implementation of Employee Assistance Programs, based on organizational and administrative theories. It provides training of skills necessary to help employees overcome such barriers as substance abuse, interpersonal difficulties, and ineffectual stress management.</td>
</tr>
<tr>
<td>HUSR 281 C</td>
<td>PREVENTION STRATEGIES</td>
<td>3</td>
<td>Three hours lecture per week. CSU This course will present the history, theories and current strategies for prevention of alcohol and drug problems and for reduction of harm caused by those with problems (harm reduction). Conceptual frameworks, major research, epidemiology, environmental risk factors and the effectiveness of various prevention strategies will be examined.</td>
</tr>
<tr>
<td>HUSR 290 C</td>
<td>HUMAN SERVICES IN CRIMINAL JUSTICE</td>
<td>3</td>
<td>Three hours lecture per week. CSU This experiential course will survey the historical, and philosophical aspects of criminal behavior and the functions and objectives of parole and probation. Students will examine the skill requirements, the major tasks and responsibilities, the role and function and the overall mission of the service provider in the criminal justice system. The judicial system and its relationship to the criminal offender will be examined as well as modern approaches in the control of crime. Resources for resocializing the offender will be explored.</td>
</tr>
</tbody>
</table>
HUSR 298 C  HUMAN SERVICES SEMINAR
3/2 - 12 Units  (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to forty-two hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion type developed on a particular limited problem or topic of interest to students. It is designed for students who wish to increase their knowledge of a particular topic that is offered in no other regular class. A paper or group activity may be assigned. Credit may range from ½ to 12 units. Consult the class schedule for the offerings a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

Industial Education Teaching

INDUSTRIAL EDUCATION TEACHING TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Information Systems (IS) – See Computer Information Systems (CIS)

INFORMATION SYSTEMS TRANSFER PROGRAM
Refer to Catalog under:
BUSINESS ADMINISTRATION TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Information Technology (IT) – See Computer Information Systems (CIS)

HUSR 291 C  COUNSELING IN CRIMINAL JUSTICE
3 Units
Three hours lecture per week.
CSU
This course explores current theory and practice in the counseling of those in state prison treatment programs. Topics include an overview of the California Department of Corrections, the inmate classification system, specialized inmate management topics, violence and violence management strategies, victim awareness issues, the processes of addiction and recovery, an overview of assessment instruments, an exploration of sociopathy, and group counseling dynamics.

HUSR 292 C  INTRODUCTION TO CRIMINOLOGY
3 Units
(Same as SOC 292 C)
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
This course presents a scientific analysis of the nature, extent, and causes of violations of societal rules of behavior that are formally defined as crime and delinquency. The course includes an analysis of the theoretical perspectives that led to the development of criminal law and the administration of criminal justice, the patterns of criminality and delinquency, the impact of crime on social change, and the labeling, identification, characteristics, and the treatment of criminals and delinquents.

HUSR 293 C  CONFLICT RESOLUTION/MEDIATION
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
This course examines the background, development and methodology of non-violent, non-litigious conflict resolution with emphasis on theory and the practice of mediation. This is a state certified course designed to train individuals to be effective in resolving conflict in the family, the community, the classroom and the workplace.

HUSR 294 C  CAREERS IN CRIMINAL JUSTICE
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
This course will provide the student with the opportunity to explore, in-depth, the breadth and scope of career opportunities in the field of criminal justice. Specific careers will be explored through guest speakers, field trips, on-site observations and mentoring opportunities. Students will gather knowledge and gain an appreciation for the criminal justice field as a result of this course.

HUSR 295 C  CROSS-CULTURAL CRIMINOLOGY
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU, CUL DIV
This course will explore cross-cultural customs and traditions from a criminal justice perspective. Specific cultures that are represented in significant numbers within the United States will be explored. Students will gather knowledge and gain an appreciation for the cross-cultural aspects within the field of criminal justice.
Interdisciplinary Studies

All Divisions

All Division Deans

Faculty
Linda Borla

Counselors
All Counselors

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

Option III - GENERAL STUDIES
A.A. Degree  Program Code: 1A18452
A.S. Degree  Program Code: 1S12078 (Inactive)

EMPHASIS IN FINE ARTS
This Area of Emphasis under the Option III - General Studies provides students with the opportunity to earn an Associate in Arts degree, allowing them to understand the intellectual relationships between various disciplines in the Arts. This degree option may include transfer and/or non-transfer coursework. Please consult with a counselor for more information.

The Associate of Art Degree in Fine Arts provides students with a scope of knowledge and broad overview for attaining the communication skills, practical knowledge, and training necessary for a variety of careers in the Fine Arts area. Students completing this degree will develop a basic understanding of the arts and how they interrelate. To earn an Associate Degree students ust complete (1) all 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 course work must be completed at Cypress College. Courses that fulfill requirements in an area of emphasis for 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.

An Associate in Arts Degree includes at least 20 units in Social Science, Humanities and Arts courses. An Associate in Science Degree includes at least 20 units in Science, Math and Technical courses.
Select up to six units
THEA 107 C Diversity in American Theater 3
THEA 108 C Stage and Screenwriting 3
THEA 120 C Acting 1 3
THEA 126 C Musical Theater Techniques 3
THEA 128 C Acting For The Camera 3
THEA 143 C Stage Craft 3
THEA 144 C Lighting Design Fundamentals 3
THEA 145 C Fundamentals of Costume Design 3
THEA 146 C Scene Painting 3
THEA 147 C Stage Makeup 3

INTERDISCIPLINARY STUDIES - SEMINAR
1⁄2 - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to sixty hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This course is a lecture and/or laboratory workshop approach to topics that do not fit into a single division. Fees may be required – PAYABLE AT REGISTRATION.

Japanese

Division of Language Arts

Division Dean – Eldon Young

Faculty
K. Mariye Takahashi

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

Japanese (JAPN)

JAPANESE TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

JAPN 098 C JAPANESE SEMINAR
1⁄4 - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is for students who wish to extend their knowledge of literature, language and culture through small group discussion. Fees may be required – PAYABLE AT REGISTRATION.

INDS 090 C WORK EXPERIENCE - GENERAL
3 Units (May be taken for credit 3 times)
One hour lecture plus minimum of Five hours of employment per week for each unit of credit.
Prerequisite: Must be enrolled in seven units, including work experience. This course provides students with actual work experience through mutual agreement with selected employers. Work may include the acquisition of desirable work habits and attitudes toward jobs. The job held by the student need not be related to the occupational goal of the student. The student may earn no more than three credit units per semester with a maximum total of six during the student’s enrollment in any community college. Student’s employment need not be limited to the five-hour increment for which the student gains credit.

INDS 100 C HUMANITIES: ANCIENT & MEDIEVAL
3 Units (Same as ENGL 110 C)
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Prerequisite: Eligibility for ENGL 100 C. This course is a survey of the development of Western culture with a focus upon its Greco-Roman roots, and a study of other important influences, including African and Middle Eastern. The course covers prehistory to the Renaissance, with emphasis on the arts. Cost for museum visits not to exceed $15.00. Duplicate credit not granted for ENGL 110 C.

INDS 101 C HUMANITIES: RENAISSANCE-PRESENT
3 Units (Same as ENGL 111 C)
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Prerequisite: Eligibility for ENGL 100 C. This course is a survey of the development of Western Culture from the Renaissance to the present, including a study of other important influences from Africa, the Middle East, North and South America, with emphasis on the arts. Cost for museum visits not to exceed $15.00. Duplicate credit not granted for ENGL 111 C.

INDS 120HC HONORS THEME SEMINAR
1 Unit
One hour lecture per week.
CSU
The Honors Theme Seminar is a course specifically designed for Honors Program students. Students will discuss, research, analyze, and write about the Honors Program yearly theme.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPN 100 C</td>
<td>SPOKEN JAPANESE FOR BEGINNERS</td>
<td>3</td>
<td>(May be taken for credit 2 times)</td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option CSU, AA GE. This course is for students who would like to take conversational Japanese without having to learn the complicated writing system. This will be an introduction to spoken Japanese, with emphasis on vocabulary development, use of the common phrases and culturally appropriate language at beginning levels. Conducted mainly in Japanese through the use of the direct teaching method.</td>
</tr>
<tr>
<td>JAPN 101 C</td>
<td>ELEMENTARY JAPANESE I</td>
<td>5</td>
<td></td>
<td>Five hours lecture per week. Pass/No Pass/Letter Grade Option UC/CSU, AA GE, CSU GE. Prerequisite: Eligibility for ENGL 100 C or successful prior experience in Japanese. This course continues to emphasize the acquisition of basic skills in pronunciation, listening, speaking, reading and writing. Students will be introduced to the culture, history and geography of Japan through lectures, slides, videos, photographs, films, and reading assignments.</td>
</tr>
<tr>
<td>JAPN 102 C</td>
<td>ELEMENTARY JAPANESE II</td>
<td>5</td>
<td></td>
<td>Five hours lecture per week. Pass/No Pass/Letter Grade Option UC/CSU, AA GE, CSU GE, IGETC. Prerequisite: JAPN 101 C with a grade of “C” or better or one year of high school Japanese with an average grade of “C” or better is recommended. This course will provide students with insights into Japanese culture and techniques for the critical analysis of film.</td>
</tr>
<tr>
<td>JAPN 125 C</td>
<td>JAPANESE CULTURE THROUGH FILM</td>
<td>3</td>
<td></td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option UC/CSU, AA GE, CSU GE. This course is a critical study of Japanese culture through viewing films of great directors. The student will study artistic works of internationally recognized principal directors and examine uniquely Japanese traits and critically analyze the identification of characters. The course will provide students with insights into Japanese culture and techniques for the critical analysis of film.</td>
</tr>
<tr>
<td>JAPN 200 C</td>
<td>CONVERSATIONAL JAPANESE</td>
<td>2</td>
<td>(May be taken for credit 4 times)</td>
<td>Two hours lecture per week. Pass/No Pass/Letter Grade Option CSU, CSU GE. Prerequisite: JAPN 102 C. The course(s) will focus on practical conversation with emphasis on the idiomatic usage of the language. Topics concern Japanese life, culture, and current events. Students will prepare for this class through the study of the required textbook, magazines, newspapers and other current materials. The course is conducted in Japanese.</td>
</tr>
<tr>
<td>JAPN 201 C</td>
<td>STUDY OF KANJI</td>
<td>2</td>
<td>(May be taken for credit 4 times)</td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option CSU. Prerequisite: JAPN 102 C. This is a low intermediate skills course designed to improve the reading, writing, listening, and understanding of Kanji. Students will practice and learn 420 basic Kanji, as components of more complex Kanji. This will prepare students to take the Japanese government’s proficiency examination at the 10th and 9th level. By repeating the class, students will be able to advance up to the 2nd level.</td>
</tr>
<tr>
<td>JAPN 203 C</td>
<td>INTERMEDIATE JAPANESE III</td>
<td>4</td>
<td></td>
<td>Four hours lecture per week. Pass/No Pass/Letter Grade Option UC/CSU, AA GE, CSU GE, IGETC. Prerequisite: JAPN 102 C with a grade of “C” or better or two years of high school Japanese with an average grade of “C” or better is recommended. This course continues to emphasize the acquisition of advanced skills in listening, speaking, reading, and writing. Students will be introduced to further elements of the culture, history, and geography of Japan through lectures, slides, films, dialogues and reading assignments conducted in Japanese.</td>
</tr>
<tr>
<td>JAPN 204 C</td>
<td>INTERMEDIATE JAPANESE IV</td>
<td>4</td>
<td></td>
<td>Four hours lecture per week. Pass/No Pass/Letter Grade Option UC/CSU, AA GE, CSU GE, IGETC. Prerequisite: JAPN 203 C with a grade of “C” or better or three years of high school Japanese with an average grade of “C” or better is recommended. This course will provide students with insights into Japanese culture and techniques for the critical analysis of film.</td>
</tr>
<tr>
<td>JAPN 291 C</td>
<td>ANIME I: STUDY OF CULTURE</td>
<td>3</td>
<td></td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option UC/CSU. This course is a critical study of Japanese anime as culture. Students will discover how these films are created, from the point of view of technique and imagination. Students will practice critical ways of viewing the films. Students will also learn to see the films in their cultural context and as representations of Japanese culture.</td>
</tr>
<tr>
<td>JAPN 292 C</td>
<td>ANIME II: LANGUAGE IN FILMS</td>
<td>3</td>
<td></td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option UC/CSU. Prerequisite: JAPN 102 C or eligibility for JAPN 203 C. This course is a critical study of Japanese Anime as culture and language. Students will study the measurable timing of artistic translation techniques (including use of storyboards, cell and 3DCG) in the context of Japanese culture. This class will be conducted in Japanese.</td>
</tr>
</tbody>
</table>
JAPN 293 C ANIME III: MANGA CULTURE IN US
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: JAPN 102 C with a minimum grade of “C.” This course is a study of Japanese anime language and culture. It provides students with experience in literary areas of Manga language and an opportunity to explore Kanji and Katakana through the practical way of reading Manga. Students will also learn to see Manga in the context of Japanese literature and culture.

JAPN 294 C ANIME IV: LITERATURE & CULTURE
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: JAPN 102 C with a minimum grade of “C.” This course is a critical study of Japanese literature and culture through anime. The course introduces students to internationally well-known works of literary fiction, providing the students with an opportunity to enrich their lives and develop an appreciation of good Japanese literature and culture.

JAPN 298 C JAPANESE SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is for students who wish to extend their knowledge of literature, language and culture through small group discussion. Fees may be required – PAYABLE AT REGISTRATION.

JAPN 299 C JAPANESE INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 3 times)
One-half to two hours conference per week.
Pass/No Pass/Letter Grade Option
UC Credit Limitation
Prerequisite: Approved Independent Study Learning Contract. This course is for able students who wish to increase their knowledge of the Japanese language through individual study or research. Unit credit may range from ½ - 2 units in any given semester.

Journalism/Communications

Division of Fine Arts

Division Dean – Ting-Pi (Joyce) Carrigan

Faculty
Robert Mercer

Counselors
Renay Laguana-Ferinac
Renee Ssensalo

PROGRAM LEARNING OUTCOMES (PLOs)
Program Learning Outcomes (PLOs) are in the process of finalization.

COMMUNICATIONS TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to any college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

INTEGRATED JOURNALISM SKILLS CERTIFICATE
The Integrated Journalism Certificate displays the student understands the use of multimedia reporting. The student learns print, broadcast and online news gathering and production skills making the student qualified for entry-level internships and employment in most media.

To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all coursework must be completed at Cypress College.

Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 110 C</td>
<td>Global Media</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 101 C</td>
<td>Reporting and Writing</td>
<td>3</td>
</tr>
<tr>
<td>ACG 181 C</td>
<td>Digital Video/Win</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACG 180 C</td>
<td>Digital Video/Mac</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 299 C</td>
<td>Independent Study</td>
<td>2</td>
</tr>
</tbody>
</table>

Take two of the following courses:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 225 C</td>
<td>Print Production</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 226 C</td>
<td>Online Production</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 228 C</td>
<td>Visualjournalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 229 C</td>
<td>Broadcast Production</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required 17
INTERNATIONAL JOURNALISM SKILLS
CERTIFICATE
International Journalism prepares the student to work world wide, either as a netizen of the world wide web or as an international correspondent. The certificate capstone is two units of independent study in an international environment; preferably a study abroad program.

To earn a certificate, complete the required courses as listed with a minimum grade of “C”. At least 50% of all coursework must be completed at Cypress College.

Required courses are listed in suggested sequence:
Course # Title Units
JOUR 110 C Global Media 3
JOUR 101 C Reporting and Writing 3
JOUR 226 C Online Production 3
ENGL 110 C Humanities: Ancient & Medieval 3
or
ENGL 111 C Humanities: Renaissance-Present (3)
HIST 112 C World Civilizations I 3
or
HIST 113 C World Civilizations II (3)
JOUR 299 C Independent Study 2
Total Units Required 17

Journalism/Communications (JOUR)

JOUR 101 C REPORTING AND WRITING
3 Units
Three hours lecture per week.
UC/CSU
Prerequisite: Eligibility for ENGL 100 C. Advisory: Ability to keyboard 20 words per minute. Students learn the fundamentals of reporting and writing for mass media, including print, radio, television and the world wide web. They learn news gathering strategies including interviewing using audio and video technology and computer assisted research. They learn Associated Press style news and feature writing, plus story formatting for print, radio and television scripting.

JOUR 110 C GLOBAL MEDIA
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE
This course examines the histories, structures, functions, political, social, and economic impacts of the mass media and support systems, including legal and ethical issues. Study of newspapers, magazines, films, radio, television and internet, with an emphasis on evolving media models that may provide future careers for students.

JOUR 118 C MESSAGES FOR ELECTRONIC MEDIA
3 Units
Three hours lecture per week
CSU, CSU GE
A speech and mass communications class that investigates the history, theory, contemporary issues, and current law in broadcasting, cable and the Web. Students create and broadcast video and audio presentations in addition to learning through lecture and reading.

JOUR 140 C PUBLIC RELATIONS
3 Units
CSU
Three hours lecture per week.
Advisory: Ability to type 20 WPM and understand basic computer operation. Students will study and practice the techniques and responsibilities of industrial, governmental, and civic public relations, with special attention to publicity writing and public relations campaign development.

JOUR 225 C PRINT PRODUCTION
3 Units
Three hours lecture per week
CSU
Advisory: Should be able to type 20 words per minute. Students publish campus publications for the printing press. The course is taught in a media convergence newsroom in which students work alongside, and share their content with other student media. Skills developed include reporting, writing, and editing; desktop publishing; desktop editing of photographs and the creation of graphics; and digital photography; plus managing media and advertising.

JOUR 226 C ONLINE PRODUCTION
3 Units
Three hours lecture per week
CSU
Advisory: 20 words per minute keyboarding helpful. Emphasis is on creating and maintaining The Cypress Chronicle student news website, CyChron.com. The course is taught in a newsroom using the media convergence model in which students work alongside of, and share their production with, other campus media. Skills developed include writing for the internet, using digital photography, editing digital video and audio, using on-line publishing software, plus managing media and advertising.

JOUR 228 C VISUALJOURNALISM
3 Units
Three hours lecture per week
CSU
Advisory: 20 words per minute keyboarding helpful. Emphasis is on creating visual stories using digital photography and/or videography. The student will plan, photograph or videograph, report, write, layout or edit visual story packages for the student campus media. Skills include digital photography and videography, reporting, writing, desktop photographic editing, desktop publishing, and video editing.

JOUR 229 C BROADCAST PRODUCTION
3 Units
Three hours lecture per week.
CSU
Advisory: 20 words per minute keyboarding helpful. Emphasis is on creating broadcast television and radio-style programming for posting as files and for streaming on the internet as well as for distributing conventionally. The course is taught in a newsroom using the media convergence model in which students work alongside of, and share their production with, other campus media. Skills developed include broadcast writing, videography, audio and video production, and internet distribution, plus managing media and advertising.
Law Enforcement –
See Administration of Justice (AJ)

Liberal Studies

GENERAL LIBERAL STUDIES TRANSFER PROGRAM

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Multiple Subject Matter Program

A Multiple Subject Credential is required to teach elementary school in California. Before entering a Multiple Subject Credential Program a student must either earn a Bachelor Degree and pass the Multiple Subjects Assessment for Teachers or complete a Bachelor Degree that includes an approved Multiple Subject Matter Program that meets the seven areas prescribed by the Commission on Teacher Credentialing. Students should see a counselor for assistance in choosing appropriate classes to meet specific university requirements.

NOTE: Students interested in Liberal Arts (Teacher Preparation, please see listing under Teaching.)

Latin American Studies

LATIN AMERICAN STUDIES TRANSFER PROGRAM

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

JOUR 230 C  VIDEO FOR PHOTOGRAPHERS
3 Units (May be taken for credit 3 times)
Three hours lecture per week.
CSU
Prerequisite: Completion of or concurrent enrollment in PHOT 101 C with a minimum grade of “C”. Video for Photographers introduces the photographer to the use of a single device — a digital camcorder with frame capture or a digital camera with high-definition video, or a hybrid device — for simultaneous video and still imaging. The student learns single-camera and three-camera production techniques on location and in the studio. The course includes using the still camera motor drive as a digital video tool. The student’s project will include: Treatments, scripts, shooting scripts, shooting video, shooting sequential photographs, basic audio, logging, edit decision lists, frame capture, video editing software, slideshow production, and presentation in a multimedia presentation platforms. This course gives basic video skills to the photographer who must work in video, also, for multimedia.

JOUR 298 C  COMMUNICATION/JOURNALISM SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is for able students who wish to extend their knowledge of literature, language and culture through small group discussion. Fees may be required – PAYABLE AT REGISTRATION.

JOUR 299 C  INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Zero to two hours lecture and
Zero to six hours laboratory per week.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. Students enroll who wish to increase their knowledge of journalism through individual study, research or internships. Permission of the instructor is required along with a contract outlining a student's independent work and the supervision of the instructor.
LIB 100 C  INTRODUCTION TO RESEARCH  
1 Unit  
One hour lecture per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU  
This class is designed to introduce students to traditional and electronic library research tools and resources including the Internet. Students learn how to develop research strategies that will enable them to locate, retrieve, analyze, evaluate, and cite appropriate resources on a given topic. Each student will compile and prepare a written bibliography of relevant sources on a topic.

Management  
Division of Business and Computer Information Systems  
Division Dean – Dave Wassenaar  
Faculty  
Patricia Kishel  
Counselors  
Robert Grantham  

PROGRAM LEARNING OUTCOMES (PLOs) Management  
A student who completes the management field of study will be able to:  

- Understand how organizations operate and what it takes to succeed as a manager, acquiring the leadership knowledge and skills to carry out administrative functions in the key areas of management, communications, finance, and law.  
- Enhance his/her employment opportunity in the specific area of management.

ASSOCIATE IN ARTS DEGREE BUSINESS ADMINISTRATION Program Code: 1A16599  
This curriculum is designed to provide an opportunity for the business major to achieve an Associate in Arts Degree Business Administration while completing the first and second year requirements for transfer to a four-year institution. While a baccalaureate degree is recommended preparation for those considering professional careers in business administration, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work.

Students should consult a counselor and the catalog of the individual college or university to plan a program of study. The Internet site www.assist.org will also provide information for California public universities. Courses selected to fulfill the requirements of the associate degree should reflect requirements of the college to which the student plans to transfer.
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 percent 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 are listed in suggested sequence:

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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MGT 161 C</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>*ECON 100 C</td>
<td>Principles of Economics-Macro</td>
<td>3</td>
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<tr>
<td>or</td>
<td>*ECON 100HC</td>
<td></td>
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<tr>
<td>or</td>
<td>**ECON 105 C</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>**ECON 105HC</td>
<td></td>
</tr>
<tr>
<td>MGT 240 C</td>
<td>Legal Environment of Business</td>
<td>3</td>
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<tr>
<td>or</td>
<td>MGT 241 C</td>
<td></td>
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<tr>
<td>or</td>
<td>ACCT 101 C</td>
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<tr>
<td>or</td>
<td>ACCT 102 C</td>
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<tr>
<td>or</td>
<td>MATH 130 C</td>
<td></td>
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<tr>
<td>or</td>
<td>MKT 222 C</td>
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Elective:

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</thead>
<tbody>
<tr>
<td>MGT 211 C</td>
<td>Writing for Business</td>
<td>3</td>
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** A score of 3 or higher on the Advanced Placement (AP) Economics (macro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Economics (micro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

ASSOCIATE IN SCIENCE DEGREE MANAGEMENT Program Code: 1S03762

This curriculum is designed to prepare students for careers in the administration of modern organizations. Focusing on the ways that businesses operate and what it takes to succeed as a manager, the program covers such areas as management, marketing, law, accounting, economics, and the global environment.

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.

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</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGT 262 C</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
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<tr>
<td>MGT 240 C</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MGT 241 C</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>ACCT 101 C</td>
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<td>or</td>
<td>MKT 222 C</td>
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<td>Total Units Required</td>
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Electives

<table>
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<tr>
<th>Course #</th>
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<tbody>
<tr>
<td>MGT 261 C</td>
<td>Small Business Management</td>
<td>3</td>
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</tbody>
</table>

** A score of 3 or higher on the Advanced Placement (AP) Economics (micro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

MANAGEMENT CERTIFICATE Program Code: 1C03762

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, students must complete the required courses as 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:

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<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGT 261 C</td>
<td>Small Business Management</td>
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<tr>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
<td>3</td>
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<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
<td>4</td>
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<tr>
<td>ECON 110 C</td>
<td>Survey of Economics</td>
<td>3</td>
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<tr>
<td>or</td>
<td>**ECON 105 C</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>**ECON 105HC</td>
<td></td>
</tr>
<tr>
<td>Total Units Required</td>
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<td>28</td>
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</tbody>
</table>

** A score of 3 or higher on the Advanced Placement (AP) Economics (micro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.
ASSOCIATE IN SCIENCE DEGREE
RETAIL MANAGEMENT  Program Code: 1S12307
This curriculum is designed to prepare students to assume leadership positions in the retail sector, providing them with the essential business skills needed to perform supervisory and management duties. Created through a partnership with the Western Association of Food Chains and retailers in a variety of fields, this program will help students pursue careers in the grocery industry and others that deal directly with consumers, such as the apparel, home furnishings, general merchandise, and services industries.

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.

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.

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<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MGT 211 C Writing for Business</td>
<td>(3)</td>
</tr>
<tr>
<td>MGT 151</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMM 100</td>
<td>Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>COMM 100HC Honors Human Communication</td>
<td>(3)</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>MKT 222</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 105</td>
<td>Principles of Retailing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 208</td>
<td>Principles of Selling</td>
<td>3</td>
</tr>
<tr>
<td>MKT 266</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 31

RETAIL MANAGEMENT CERTIFICATE  Program Code: 1C03762
Primary emphasis is to provide students with the essential business skills needed to develop a successful management career in retailing. Created through a partnership with the Western Association of Food Chains and retailers in a variety of fields, this certificate will help prepare students to work in the grocery industry and others that deal directly with consumers, such as the apparel, home furnishings, general merchandise, and services industries.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

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<tr>
<td>ACCT 101</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>MKT 103</td>
<td>Principles of Advertising</td>
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</tr>
<tr>
<td>CIS 111</td>
<td>Computer Information Systems</td>
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<tr>
<td>MKT 224</td>
<td>International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 101</td>
<td>Personal Finance</td>
<td>3</td>
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<td>Principles of Retailing</td>
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<tr>
<td>MKT 267</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MKT 211</td>
<td>Writing for Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 28

ASSOCIATE IN SCIENCE DEGREE
SMALL BUSINESS MANAGEMENT  Program Code: 1S12296
This curriculum is designed to provide students with the necessary information and skills to start, manage, and promote a small business enterprise in today’s global environment. Focusing on the steps involved in building a business, the program covers all aspects of business ownership and the ways to develop one’s entrepreneurial abilities.

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.

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<td>Principles of Retailing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 266</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>MKT 268</td>
<td>Human Resources Management</td>
<td>3</td>
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</table>

Total Units Required: 31

RETAIL MANAGEMENT CERTIFICATE  Program Code: 1C03762
Primary emphasis is to provide students with the essential business skills needed to develop a successful management career in retailing. Created through a partnership with the Western Association of Food Chains and retailers in a variety of fields, this certificate will help prepare students to work in the grocery industry and others that deal directly with consumers, such as the apparel, home furnishings, general merchandise, and services industries.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

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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.

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RETAIL MANAGEMENT CERTIFICATE  Program Code: 1C03762
Primary emphasis is to provide students with the essential business skills needed to develop a successful management career in retailing. Created through a partnership with the Western Association of Food Chains and retailers in a variety of fields, this certificate will help prepare students to work in the grocery industry and others that deal directly with consumers, such as the apparel, home furnishings, general merchandise, and services industries.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.
CALL CENTER OPERATIONS SKILLS
CERTIFICATE  Program Code: 1K00551
This certificate is designed for individuals who are currently employed by or wish to work in organizations that utilize call centers. Created in partnership with the Automobile Club of Southern California, Mitsubishi Motors North America, Inc., PacifiCare, Toyota, and others, the program trains students to work in such settings as credit collection, customer service, insurance claims processing, inside sales, and other call center environments. The primary emphasis of this certificate is to prepare the student for occupational competency. It focuses on developing human relations, communication, computer, and other required skills. Enabling students to function successfully in the call center environment, the certificate also lays the foundation for moving into management or supervisory positions. Many of the classes can be applied to the Associate in Science Degree Management.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

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<tr>
<td>or MGT 211 C</td>
<td>Writing for Business</td>
<td>(3)</td>
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<tr>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
<td>4</td>
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</tbody>
</table>

Select a minimum of 6 units from the elective courses listed below

Total Units Required 28

Electives

- MGT 103 C Principles of Advertising 3
- CIS 111 C Computer Information Systems 3
- MGT 224 C International Marketing 3
- MGT 101 C Personal Finance 3
- MGT 105 C Principles of Retailing 3
- MGT 267 C Principles of Supervision 3
- MGT 211 C Writing for Business 3

COMMERCIAL MUSIC - MANAGEMENT SKILLS
CERTIFICATE  Program Code: 1K00006
A synthesis of Music and Business courses, this certificate enables students to develop the management, marketing, and entrepreneurial skills necessary for success in the Music Industry.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

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<tbody>
<tr>
<td>MUS 111 C</td>
<td>The Music Business</td>
<td>3</td>
</tr>
<tr>
<td>MUS 212 C</td>
<td>Music Promotion &amp; Distribution</td>
<td>3</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MGT 261 C</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>MUS 117 C</td>
<td>American Popular Music</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Total Units Required 15

Recommended Electives

- CIS 111 C Computer Information Systems (3)
- MKT 224 C International Marketing (3)
- MUS 055 C Music Work Experience (1)
HEALTH CARE MANAGEMENT AND SUPERVISION SKILLS CERTIFICATE  Program Code: 1K00041
This certificate program helps prepare students to work in the health care field in a management or supervisory capacity. Preparing students to work in a variety of health care delivery settings, including physicians’ offices, hospitals, health maintenance organizations, and insurance companies, the certificate focuses on the leadership, motivation, organization, planning, and other skills needed to manage or supervise others. Created for both (a) students with allied health credentials and (b) students with general business or office experience, it is designed to help students gain entry into the health care field, to move into supervisory positions, and/or to advance in their current positions.

To earn a certificate, students must complete the required courses as 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:
Course #  Title  Units
HI 100 C  Trends in Health Care Delivery  2
HI 102 C  Legal Aspects of Health Care  2
HI 115 C  Medical Staff Services Science  3
MGT 262 C  Principles of Management  3
MGT 266 C  Human Relations in Business  3
MGT 267 C  Principles of Supervision  3

Total Units Required  15

LEADERSHIP SKILLS CERTIFICATE  (pending state approval)  Program Code: 1K00009
This certificate provides students with the necessary skills and knowledge to be effective leaders in the business or political sector. Students who complete this certificate program will learn a variety of leadership styles and management and motivation techniques that will enable them to work productively with others to accomplish their objectives.

To earn a certificate, students must complete the required courses as 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:

Course #  Title  Units
MGT 266 C  Human Relations in Business  3
MGT 262 C  Principles of Management  3
MGT 267 C  Principles of Supervision  3
or
COUN 135 C  Leadership  3
or
COUN 135HC  Honors Leadership  3
MGT 161 C  Introduction to Business  3
or
*POSC 100 C  United States Government  3
or
*POSC 100HC  Honors U.S. Government  3

Total Units Required  16

PROJECT MANAGEMENT CERTIFICATE  Program Code: 1K00041
The Project Management Certificate is designed to help students
A. Understand the role and functions of the project manager,
B. Plan and manage projects using Microsoft Project software,
C. Manage project time, budget, and project team more effectively,
D. Apply these tools immediately by completing a project plan and budget as part of the course of study.

Course #  Title  Units
CIS 274 C  Project Mgmt Fundamentals  3
CIS 216 C  Microsoft Project  3
MKT 222 C  Principles of Marketing  3
MGT 262 C  Principles of Management  3
or
MGT 266 C  Human Relations in Business  3

Total Units  12

SPORTS MANAGEMENT SKILLS CERTIFICATE  Program Code: 1K00063
This program is designed to prepare students for management careers in the sports and recreation industries, working with professional, college or high school teams; fitness, athletic, golf and tennis clubs; recreational facilities and parks; or marketing and selling athletic clothing and sports equipment. Combining knowledge of physical education with general business principles, this certificate will help students gain responsible positions in their chosen athletic field.

To earn a certificate, students must complete the required courses as 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:

Course #  Title  Units
PE 247 C  Sports Management  3
PE 248 C  Psychology of Sport  3
MGT 161 C  Introduction to Business  3
MGT 266 C  Human Relations in Business  3
MKT 222 C  Principles of Marketing  3

Total Units Required  15

TECHNOLOGY MANAGEMENT SKILLS CERTIFICATE  Program Code: Pending
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, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

Core Requirements  Units
CIS 160 C  Information Systems Management  3
or
CIS 182 C  Data Communications Management  3
CIS 274 C  Project Mgmt 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
MANAGEMENT TRANSFER PROGRAM
Refer to Catalog under:
BUSINESS ADMINISTRATION TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Management (MGT)

CONSUMER RELATIONS

MGT 101 C PERSONAL FINANCE
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
This course encourages the management of personal income and expenses through effective financial planning, budgeting, and investing. By utilizing these tools in a contemporary manner, students will discover opportunities for a much improved standard of living. The topics explored include wealth building, smart consumer purchasing, goal setting, risk taking, tax deferred investing, and credit cards.

ENGLISH-RELATED COURSES

MGT 055 C BUSINESS ENGLISH
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
This course includes instruction in techniques of basic grammar, punctuation, vocabulary, spelling, and capitalization. The emphasis is on grammar as used in business communications.

MGT 111 C BUSINESS COMMUNICATIONS
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
Credit by Examination
CSU
Prerequisite: MGT 055 C. The course includes instruction in the techniques of specific types of business communication media and in the general principles of effective communication. The elements and principles of written and spoken communications are covered with emphasis on the kind of writing and speaking that is conducted throughout a business career. The importance of communication is stressed. Applying skill and ingenuity in the use of the language is encouraged.

MGT 211 C WRITING FOR BUSINESS
3 Units
Three hours lecture per week.
CSU
Prerequisite: ENGL 100 C with a grade of "C" or better. This course is an introduction to communication skills and knowledge needed in organizations. This course will include communication fundamentals; ethical, legal, multicultural issues; correspondence applications; employment communication; oral and nonverbal communication; report writing; management presentations; research methods; and running effective meetings and conferences. Computer applications will be presented throughout the course.

MATH-RELATED COURSES

MGT 051 C BASIC BUSINESS MATHEMATICS
3 Units
Three hours lecture per week.
This course is a review of the fundamentals of arithmetic with special emphasis given to the solution of problems involving decimals, interest, and business operations. Drills are provided to improve speed and accuracy. This course is recommended for all students majoring in business who lack proficiency in basic mathematics as determined by examination.

MGT 151 C BUSINESS MATHEMATICS
3 Units
Three hours lecture per week.
CSU
This course is an introduction to the fundamental operation of arithmetic as applied to business problems. Included are problems in simple and compound interest; bank and purchase discounts, payroll computations, sales and property taxes, depreciation, business financial statements, and distribution of ownership and profits.

ORGANIZATION/PERSOENNEL/ MANAGEMENT-RELATED COURSES

MGT 061 C SURVEY OF BUSINESS
3 Units
Pass/No Pass/Letter Grade Option
This course provides a practical overview of business and how it applies to personal growth and success. The areas of study include inflation, social awareness, the stock market, communications, marketing, self-management, human relations, business problems, and future careers. Informal groups, gaming, personal workshop activities, and positive imagery will be utilized.

MGT 075 C BASIC KEYBOARDING TECH & TERM
½ Unit
One hour lecture and
One hour laboratory per week for nine weeks.
This course is designed for potential managers or people of all professions who need to become familiar with keyboarding (typing on information system workstations or typewriters) for easier and more proficient use of workstations. This course provides basic keyboarding skills and a working knowledge of terminology for the use of information system workstations to access, manipulate, and communicate for better management of information. It is designed for non-secretarial or non-clerical majors.

MGT 085 C BUSINESS PLANNING
1 Unit
One hour lecture per week.
Pass/No Pass
This course is designed for both prospective and current entrepreneurs. It focuses on the steps involved in starting a business, including choosing the type of business and location, financial and legal considerations, marketing and management strategies. Participants will receive guidance on preparing a complete business plan.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 086 C</td>
<td>BUSINESS FINANCE-RECORDKEEPING</td>
<td>½</td>
<td>This course addresses financial start-up considerations, sources and uses of capital, bookkeeping and financial statements, as well as tax reporting requirements.</td>
</tr>
<tr>
<td>MGT 087 C</td>
<td>OBTAINING AND USING COMPUTERS</td>
<td>½</td>
<td>This course points out the factors to consider in buying computer equipment and software for a small business and examines the various business functions that computers can perform.</td>
</tr>
<tr>
<td>MGT 088 C</td>
<td>MANAGING PERSONNEL</td>
<td>½</td>
<td>This course focuses on techniques for the recruitment, training, compensation, management and motivation of workers in the business enterprise.</td>
</tr>
<tr>
<td>MGT 089 C</td>
<td>BUSINESS LAW-SMALL BUSINESS</td>
<td>½</td>
<td>This course covers topics including choosing the proper legal form, licenses and permits, contracts, liability issues, and government regulations pertaining to business.</td>
</tr>
<tr>
<td>MGT 102 C</td>
<td>FINANCIAL LITERACY</td>
<td>3</td>
<td>This course is designed to provide students with the general financial knowledge and skills needed to take responsibility for their economic security.</td>
</tr>
<tr>
<td>MGT 106 C</td>
<td>MANAGEMENT - INDEPENDENT STUDY</td>
<td>½ - 2</td>
<td>The number of hours of scheduled conferences or activity per week will be determined by the instructor.</td>
</tr>
<tr>
<td>MGT 261 C</td>
<td>SMALL BUSINESS MANAGEMENT</td>
<td>3</td>
<td>This course applies principles of management to small business enterprises.</td>
</tr>
<tr>
<td>MGT 262 C</td>
<td>PRINCIPLES OF MANAGEMENT</td>
<td>3</td>
<td>This course focuses on the interrelationships of management decisions and the steps involved in the management process.</td>
</tr>
<tr>
<td>MGT 265 C</td>
<td>SOCIAL RESPONSIBILITY OF BUS.</td>
<td>3</td>
<td>This course addresses the social rather than the economic aspects of business responsibility.</td>
</tr>
<tr>
<td>MGT 266 C</td>
<td>HUMAN RELATIONS IN BUSINESS</td>
<td>3</td>
<td>This course provides an introduction to the principles of human behavior in modern organizations.</td>
</tr>
<tr>
<td>MGT 267 C</td>
<td>PRINCIPLES OF SUPERVISION</td>
<td>3</td>
<td>This course presents the fundamental techniques a supervisor needs to know about motivating people, managing a job, and the development of situational leadership styles.</td>
</tr>
</tbody>
</table>
**MGТ 268 C  HUMAN RESOURCES MANAGEMENT**  
3 Units  
Three hours lecture per week.  
CSU  
This course provides theories and practices relating to personnel administration, labor-management relations, employee selection, training, performance appraisal, discharge, hours of work and methods of payment, handling of personnel problems, benefit programs, affirmative action, and equal employment.

**MGТ 269 C  OFFICE MANAGEMENT**  
3 Units  
Three hours lecture per week.  
CSU  
This course is a study of the problems involved in the organization and management of a business office. The major problems identified and characterized in this course are the impact of automation upon the office manager's job, organizing and planning office work, controlling the people, the forms and the machines that do the work, creating proper human relations by effective supervision, modern personnel practices, employer-employee communications, and analyzing word processing as a method of paperwork cost reduction.

**MGТ 295 C  MANAGEMENT INTERNSHIP**  
1-4 Units (Variable Unit Class) (May be taken for credit 4 times)  
(Open Entry/Open Exit)  
One hour lecture and  
Three hours 20 minutes to Thirteen hours and 20 minutes laboratory per week.  
Pass/No Pass/Letter grade Option  
CSU  
This course is designed to give the student credit for work experience at a related occupational worksite, while being concurrently enrolled in a vocational major. For each unit of credit, a minimum of 75 paid or 60 unpaid worksite internship hours is required. The internship allows students to apply knowledge gained in college courses to an actual work setting, sample career choices and internship allows students to apply knowledge gained in college courses to an actual work setting, sample career choices and improve job-readiness skills. Supplemental reading and course assignments required.

**MGТ 298 C  MANAGEMENT SEMINAR**  
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)  
Zero to twelve hours lecture and  
Zero to twenty-four hours laboratory per week.  
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade  
CSU  
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This course provides a lecture/discussion approach to particular problems for students who wish to increase their knowledge of business-related subjects not ordinarily covered in curriculum courses. Fees may be required – PAYABLE AT REGISTRATION.

**MGТ 041 C  SURVEY OF BUSINESS LAW**  
3 Units  
Three hours lecture per week.  
Pass/No Pass/Letter Grade Option  
This course provides a survey of the basic principles of law that apply to business and personal transactions with emphasis given to the substantive law of torts, crimes, contracts, sales, bailments, commercial paper, agency, employment and labor relations, partnerships, corporations, insurance, secured transactions, real property, estates and trusts, and bankruptcy. Other areas of study include the nature and sources of law, the judicial system, domestic relations law, and government regulation of business.

**MGТ 141 C  PERSONAL LAW**  
3 Units  
Three hours lecture per week.  
Pass/No Pass/Letter Grade Option  
CSU  
This course provides a survey of the basic principles of law that affect the citizens in American society with consideration given to the nature and sources of law, the state and federal judicial system, lawyers, crimes, and torts. The areas of law studied relate to the citizen's role as family member, student, consumer, insured, tenant, landlord, homeowner, saver, investor, owner of motor vehicle, employee, employer, and estate planner.

**MGТ 143 C  INTRODUCTION TO LEGAL RESEARCH**  
1 Unit  
One hour lecture per week.  
Pass/No Pass/Letter Grade Option  
CSU  
This course provides an introduction to the nature and use of legal reference material with consideration given to a uniform system of citation. An exposure to legal reference material will include constitutions, statutes and codes, executive orders, administrative agency regulations and rulings, treaties, judicial reports, indexes, digests, citators, treatises, looseleaf services, periodicals, encyclopedias, procedure manuals, and form books.

**MGТ 240 C  LEGAL ENVIRONMENT OF BUSINESS**  
3 Units  
Three hours lecture per week.  
Pass/No Pass/Letter Grade Option  
UC Credit Limitation/CSU  
This course is an introduction to the legal environment in which a business firm operates. Topics include an introduction to the American legal system, contracts, torts, product liability, forms of business organization, trade regulation, labor law, environmental law, and international business law. Required for Business Administration majors at CSU Fullerton and San Diego State University.

**MGТ 241 C  LEGAL ASPECTS-BUSINESS TRANS.**  
3 Units  
Three hours lecture per week.  
Pass/No Pass/Letter Grade Option  
UC Credit Limitation/CSU  
This course is an introduction to business law principles and cases, including a review of the classes and sources of law, agencies for enforcement, court procedure, and civil and criminal liability. The major subject area studied is the law of contracts. A special study is made of sales of goods based upon the Uniform Commercial Code with emphasis placed on consumer protection. Required for Business Administration majors at CSU Long Beach, CSU Dominguez Hills, and Cal Poly Pomona.
**MRN 061 C  OUTBOARD ENGINE REPAIR - SERVICE AND MAINTENANCE**  
**6 Units**  
**Three hours lecture and Nine hours laboratory per week.**  
This course will cover the complete operating principles, theory and design features of outboard engines. The course will cover the repair, service, maintenance, overhaul and diagnosis of outboard engines such as Mercury, Johnson, and Evinrude. Students will be instructed using lecture/demonstrations and will perform various procedures in a simulated industrial laboratory. Practical experiences will be done on both laboratory units and live projects.

**MRN 062 C  MARINE DRIVE SYSTEMS FOR RECREATIONAL BOATS**  
**4 Units**  
**Two hours lecture and Six hours laboratory per week.**  
This course will cover the operating principles, theory and design features of marine drive systems for recreational boats (stern drives, jet drives, V drives and hydraulic and manual transmission). This course will cover the repair, service, maintenance, overhaul and diagnosis of stern drives, jet drives and inboard transmission systems such as OMC, Mercruiser, Volvo Penta, Panther jet, Berkeley jet, Jacuzzi jet and Borg Warner. Students will perform various procedures in a simulated industry laboratory environment, using both laboratory units and live projects.

**MRN 064 C  OUTBOARD & STERN DRIVE REPAIR**  
**4 Units**  
**Two hours lecture and Six hours laboratory per week.**  
This course is designed to provide the student with advanced experiences in all areas of marine service technology. Students will be working on actual repair projects on outboard engines such as Johnson, Evinrude, Mercury, Yamaha. Stern drives such as Mercruiser, Volvo Penta, OMC, as well as inboards and jet drives will be covered.

**MRN 298 C  MARINE SERVICE SEMINAR**  
**½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)**  
**Zero to twelve hours lecture and Zero to thirty-six hours laboratory per week.**  
**Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade**  
**CSU**  
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a course for students who wish to increase their knowledge of marine service. Various topics will be offered. Unit credit may range from ½ to 12 units in any given semester. Consult the class schedule to verify credit for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.
Marketing

Division of Business and Computer Information Systems

Division Dean – Dave Wassenaar

Faculty
Patricia Kishel

Counselors
Robert Grantham

PROGRAM LEARNING OUTCOMES (PLOs)

Marketing
A student who completes the marketing field of study will be able to:

- Understand the various marketing functions (product development, pricing, promotion, and distribution) and how organizations utilize these to produce goods and services that satisfy the needs and wants of consumers.
- Enhance his/her employment opportunity in the specific area of marketing.

ASSOCIATE IN ARTS DEGREE BUSINESS ADMINISTRATION

Program Code: 1A16599

This curriculum is designed to provide an opportunity for the business major to achieve an Associate in Arts Degree Business Administration while completing the first and second year requirements for transfer to a four-year institution. While a baccalaureate degree is recommended preparation for those considering professional careers in business administration, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work.

Electives:

- MKT 222 C Principles of Marketing 3
- Electives
  - MKT 210 C Consumer Behavior 3

Total Units Required 30

Elective:

- MGT 211 C Writing for Business 3

* A score of 3 or higher on the Advanced Placement (AP) Economics (micro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Economics (macro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

ASSOCIATE IN SCIENCE DEGREE MARKETING

Program Code: 1S03764

This curriculum is designed to prepare students for careers in marketing – performing the activities that enable businesses to satisfy customers' needs and wants. Students will learn product development, pricing, promotion, and distribution methods while gaining skills in selling, retailing, advertising, market researching, and other marketing areas.

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 an overall GPA of 2.0. At least 50 percent 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 161 C</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>*ECON 100 C</td>
<td>Principles of Economics-Macro</td>
<td>3</td>
</tr>
<tr>
<td>**ECON 105 C</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
<tr>
<td>MGT 240 C</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 241 C</td>
<td>Legal Aspects-Business Trans.</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 102 C</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>MATH 130 C</td>
<td>Survey of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required 21

Electives:

- MKT 205 C Multicultural Markets In U.S. 3
- MKT 224 C International Marketing 3
- MKT 201 C Small Business Promotion 3
- ACCT 101 C Financial Accounting 4
- MGT 151 C Business Mathematics 3
MARKETING
CERTIFICATE  Program Code: 1C03764
Primary emphasis is to provide students with the necessary skills to carry out the key marketing functions in a business, developing, pricing, promoting, and distributing products and services.

To earn a certificate, students must complete the required courses as 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:
Course #  Title  Units
- MGT 161 C  Introduction to Business  3
- MKT 103 C  Principles of Advertising  3
- MKT 222 C  Principles of Marketing  3
- MKT 105 C  Principles of Retailing  3
- MKT 208 C  Principles of Selling  3
- MGT 210 C  Consumer Behavior  3

Select a minimum of 3 units from the elective courses listed below:

Total Units Required  15 – 16

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

HEALTH CARE MARKETING AND SALES SKILLS
CERTIFICATE  Program Code: 1K00042
This certificate program provides students with the necessary knowledge and skills to work in the health care field in a marketing or sales capacity. Preparing students to work in a variety of health care delivery settings, including physicians’ offices, hospitals, health maintenance organizations, and insurance companies, the certificate focuses on such areas as: sales and customer service, marketing research, advertising, public relations, and community outreach. It is designed to help students gain entry into the health care marketing and sales field and/or to advance in their current positions.

To earn a certificate, students must complete the required courses as 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:
Course #  Title  Units
- MKT 208 C  Principles of Selling  3
- MKT 103 C  Principles of Advertising  3
- MKT 222 C  Principles of Marketing  3

Total Units Required  16

INTERNET MARKETING SKILLS
CERTIFICATE  Program Code: 1K00043
This certificate program prepares students for a career in the field of Internet Marketing. Students who complete the program, will learn how to utilize the Internet as a marketing tool to promote a business, interact with customers, suppliers and distributors, generate sales, conduct marketing research, and engage in other E-business activities.

To earn a certificate, students must complete the required courses as 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:
Course #  Title  Units
- MKT 222 C  Principles of Marketing  3
- MKT 210 C  Consumer Behavior  3
- MKT 103 C  Principles of Advertising  3
- CIS 108 C  Introduction to Internet  2
- CIS 109 C  Bus. Applications-The Internet  3
- CIS 179 C  Intro. to Web Page Design  3

Total Units Required  14

GEOGRAPHIC INFORMATION SYSTEMS/MARKETING
CERTIFICATE  Program Code: 1K12953
This certificate program provides students with the skills to use Geographic Information Systems (GIS) computerized mapping techniques in the field of marketing. Combining the latest computer graphics and marketing research methods, students will learn to create maps to locate customers, evaluate business sites, plan distribution networks and sales territories, and find new business opportunities.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.
Multicultural Marketing Skills
Certificate Program Code: 1K00044
This certificate program prepares students to work in the marketing field helping U.S. businesses and organizations to serve the needs of customers and clients in a culturally diverse society. Bringing together social science, language arts, and marketing, the certificate enables students to combine their knowledge of different cultural groups’ preferences, behaviors, and languages with marketing skills to create effective product development, promotion, distribution, and pricing strategies.

To earn a certificate, students must complete the required courses as 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:
Course # Title Units
ETHS 100 C American Ethnic Studies 3
or
ETHS 100HC Honors American Ethnic Studies (3)
MKT 222 C Principles of Marketing 3
MKT 205 C Multicultural Markets in U.S. 3
and one of the following
ANTH 121 C Native North America 3
or
ETHS 129 C Intro to African-Amer. Studies (3)
or
ETHS 150 C Intro to Chicana/o Studies (3)
or
ETHS 170 C Intro to Asian-Amer. Studies (3)
Total Units Required 12

Multimedia Advertising Skills
Certificate Program Code: 1K00088
The certificate program will enable students to apply multimedia production skills and knowledge in such areas as Internet, computer imaging, photography, art and music to careers in the field of advertising, developing promotional materials to communicate with customers.

To earn a certificate, students must complete the required courses as 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:
Course # Title Units
MM 100 C Introduction to Multimedia 3
or
MM 110 C Visual Communication (3)
PHOT 101 C Introduction to Photography 3
MKT 103 C Principles of Advertising 3
MKT 222 C Principles of Marketing 3
CIS 179 C Intro. to Web Page Design 3
Total Units Required 15

Specialty in Professional Selling
Program Code: 1K00080
This certificate program provides students with the necessary skills and knowledge to carry out the steps in the selling process, from identifying potential customers and conducting sales presentations to making the sale and building positive customer relationships. This program is designed for people wishing to improve their selling skills or to enter the sales profession.

To earn a certificate, students must complete the required courses as 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:
Course # Title Units
MKT 090 C Marketing Essentials 1
MKT 091 C Advertising & Public Relations 1
MKT 092 C Personal Selling 1
MKT 093 C Target Marketing ½
MKT 094 C Buyer Behavior ½
MKT 095 C Market Distribution Systems ½
MKT 096 C Sales Promotion Techniques ½
MKT 097 C Customer Relations ½
MKT 098 C Int’l Marketing - Small Bus. ½
Total Units Required 6

Specialty in Small Business Operations
Program Code: 1K10447
This certificate program provides students with information on the various steps and management decisions involved in starting and operating a business. Program is designed for both prospective and current business owners.

To earn a certificate, students must complete the required courses as 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:
Course # Title Units
MGT 085 C Business Planning 1
MGT 086 C Business Finance-Recordkeeping ½
MKT 095 C Market Distribution Systems ½
MGT 088 C Managing Personnel ½
MKT 089 C Business Law - Small Business ½
MKT 090 C Marketing Essentials ½
MKT 091 C Advertising & Public Relations 1
MKT 092 C Personal Selling 1
Total Units Required 6

Specialty in Professional Marketing
Program Code: 1K00012
This certificate program provides students with a working knowledge of today’s global marketing system and the activities required to satisfy customers’ needs and wants for goods and services. Program is designed for both marketing professionals and those wishing to pursue marketing careers.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.
### Marketing Transfer Program

Refer to Catalog under:

**Business Administration—Transfer Program**

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

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## Marketing (MKT)

### MKT 086 C  Sales Prospecting

**1/2 Unit**

One half hour lecture per week.

*Pass/No Pass*

This course focuses on ways to identify prospective customers and generate sales leads using such methods as mailing lists, databases, networking, referrals, and other information sources.

### MKT 087 C  Sales Presentations

**1/2 Unit**

One half hour lecture per week.

*Pass/No Pass*

This course emphasizes the key elements of effective sales presentations and shows how to make each presentation come alive through the use of verbal, visual, and demonstration techniques.

### MKT 088 C  Handling Sales Objections

**1/2 Unit**

One half hour lecture per week.

*Pass/No Pass*

This course shows how to get past “No,” using various sales strategies to overcome customers’ objections and to emphasize the benefits of a purchase.

### MKT 089 C  Making the Sale

**1/2 Unit**

One half hour lecture per week.

*Pass/No Pass*

This course explains how and when to close a sale, focusing on the techniques that can be used to complete the transaction and generate repeat sales and customer referrals.

### MKT 090 C  Marketing Essentials

**1 Unit**

One hour lecture per week.

*Pass/No Pass*

This course covers the business activities necessary to plan, promote, price and distribute a product or service to potential customers. It provides an understanding of the functions of producers, wholesalers, retailers, and others.

### MKT 091 C  Advertising & Public Relations

**1 Unit**

One hour lecture per week.

*Pass/No Pass*

This course discusses the roles of advertising and public relations as part of the marketing mix a business puts together, providing strategies for identifying a target audience/choosing a message and media.

### MKT 092 C  Personal Selling

**1 Unit**

One hour lecture per week.

*Pass/No Pass*

This course provides instruction in the techniques of finding and contacting sales prospects, identifying needs and wants, giving effective sales presentations, handling objections, and closing the sale.

### MKT 093 C  Target Marketing

**1/2 Unit**

One half hour lecture per week.

*Pass/No Pass*

This course provides instruction in the fundamentals of marketing research to identify target markets and find out what customers want. Topics covered include data collection, interview and survey techniques, sources of information, and methods of trend analysis.

### MKT 094 C  Buyer Behavior

**1/2 Unit**

One half hour lecture per week.

*Pass/No Pass*

This course explores the psychology of how and why customers buy, utilizing demographic and lifestyle factors to gain a better understanding of purchase decisions.

### MKT 095 C  Market Distribution Systems

**1/2 Unit**

One half hour lecture per week.

*Pass/No Pass*

This course provides a thorough view of the distribution process, including the channels, types of retail outlets, methods of transportation, warehousing and inventory control.

### MKT 096 C  Sales Promotion Techniques

**1/2 Unit**

One half hour lecture per week.

*Pass/No Pass*

This course will provide information on the wide variety of “non-media” techniques that can be used to promote a business, including cents-off coupons, gifts and contests, special events, participation in trade shows and other promotional devices.

### MKT 097 C  Customer Relations

**1/2 Unit**

One half hour lecture per week.

*Pass/No Pass*

This course explores the ways to maintain and improve customer relations, develop customer loyalty and increase the level of repeat sales.

### MKT 098 C  Int’l Marketing—Small Bus.

**1/2 Unit**

One half hour lecture per week.

*Pass/No Pass*

This course is a study of the international marketplace and the various opportunities for businesses to sell products and services outside of the U.S.
**MKT 103 C  PRINCIPLES OF ADVERTISING**  
3 Units  
*Three hours lecture per week.*  
*CSU*

This course is a study of advertising and promotion, including the print media, copy and layout, radio and television commercials, the Internet, public relations, customer preferences and appeals, advertising campaigns, and evaluation. An ad agency point of view is presented creatively for students with interest in communications, photography, art multimedia, business, psychology, or sociology.

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**MKT 208 C  PRINCIPLES OF SELLING**  
3 Units  
*Three hours lecture per week.*  
*Pass/No Pass/Letter Grade Option*  
*CSU*

This course includes instruction in the principles and practices of personal persuasion and selling and development of the techniques that lead to a successful sales personality. The areas of study include buying motives; product knowledge; all phases of the selling process; and the many and varied career opportunities in the sales field.

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**MKT 209 C  DISPLAY AND SALES PROMOTION**  
3 Units  
*Three hours lecture per week.*  
*CSU*

This course is a lecture/lab experience in contemporary merchandising promotion. The subject areas include planning and working with display units and sales promotion materials, customer motivation, design and layout, creative brainstorming, and future trends.

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**MKT 210 C  CONSUMER BEHAVIOR**  
3 Units  
*Three hours lecture per week.*  
*CSU*

This course provides a study of consumers and how they buy. Consumerism, impulse buying, pleasure appeals, packaging, status symbols, the new woman, leisure time, California culture, personality, subliminal effects, and the psychology of advertising are covered.

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**MKT 222 C  PRINCIPLES OF MARKETING**  
3 Units  
*Three hours lecture per week.*  
*CSU*

This course is a study of business activities required to plan, price, promote, and distribute goods or services to potential customers. The areas of study include market research and consumer behavior, product development, advertising and sales, branding, pricing, Internet marketing, wholesaling and retailing, and international marketing.

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**MKT 224 C  INTERNATIONAL MARKETING**  
3 Units  
*Three hours lecture per week.*  
*CSU*

This course provides comprehensive coverage of the international marketing environment. The areas of study include the global marketplaces; import/export; foreign economic, political and legal systems; cultural differences; international finance; marketing research; and business plans.

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**MKT 299 C  MERCHANDISING/MKT-INDEP. STUDY**  
1 - 3 Units (Variable Unit Class)  
*Lecture/discussion hours vary with credit given.*  
*CSU*

Prerequisite: Approved Independent Study Learning Contract. The course is designed for capable students who wish to extend their knowledge of a particular area of merchandising/marketing through individual research and study.
Mathematics

Division of Science/Engineering/Mathematics

Division Dean – Richard Fee

Faculty
Minnie Allison
Jennifer Coopman
Cheryl Gibby
Kathryn Godshalk
Elizabeth Hamman
Eunju Lee
Chaolin Mao
Laurie Morvan
Allen Mottershead
David Nusbaum
Sylvia Paek
Christina Plett
Cynthia Shrout
Karen Watson

Counselors
Deidre Porter

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

Mathematics
Students who complete the mathematics program will be able to:

- Apply mathematical concepts, simplify expressions, and solve equations.
- Graph equations, and solve application problems using logic, constructions, and analytical reasoning.

MATHEMATICS TRANSFER PROGRAM
CALIFORNIA STATE UNIVERSITY, FULLERTON
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Mathematics (MATH)

PLACEMENT IN MATHEMATICS COURSES
Students are placed in most mathematics courses based on prior satisfactory completion of one or more prerequisite courses. Due to the highly sequential nature of the mathematics curriculum, students are required to meet the prerequisite of each mathematics course. Also, students who have completed the most advanced prerequisite course more than two years previously are strongly advised to enroll in or audit the appropriate prerequisite courses again because most students experience a loss of proficiency in the necessary skills after that length of time.

MATH 010 C BASIC MATHEMATICS
4 Units
Four hours lecture per week.
NON-DEGREE CREDIT
This is a course for students wishing to review basic arithmetic skills. It includes the concepts of adding, subtracting, multiplying, and dividing whole numbers, fractions, mixed numbers, and decimals. Also covered are percents, ratios, rates, solving proportions, perimeter and area of geometric figures, English and Metric measurements and an introduction to negative numbers. There is an emphasis on applying the mathematics to real-world situations. All work will be done without a calculator.

MATH 015 C PRE-ALGEBRA
4 Units
Four hours lecture per week.
NON-DEGREE CREDIT
Prerequisite: MATH 010 C with a minimum grade of “C” or better AND the assessment process. Proof of prerequisite is required.
This course is designed for students who are planning to study algebra and need a review of the basic skills of arithmetic and an introduction to the basic principles of algebra. Topics covered include integers, fractions, decimals, percent, proportions, exponents, properties of real numbers, evaluation of algebraic expressions, elementary equation solving, formulas, informal geometry, and applications. This course requires a non-graphing scientific calculator.

MATH 020 C ELEMENTARY ALGEBRA
4 Units
Four hours lecture per week.
NON-DEGREE CREDIT
Prerequisite: MATH 015 C or Pre-algebra with a minimum grade of “C” or better AND the assessment process. Proof of prerequisites is required. This course is an introduction to the methods of algebra. It includes the basic operations of real numbers, polynomials, rational and radical expressions, factoring polynomials, solutions of linear equations and inequalities, systems of linear and quadratic equations, and graphing of linear equations, systems, and inequalities. This course requires the use of a non-graphing scientific calculator.
Students will find instructors and qualified tutors available for assistance in solving mathematical problems or in understanding mathematical concepts in the Mathematics Learning Center, located in Room 127 of the Library/Learning Resource Center.

**Matriculation Test - Level 1**

- **010 C**
- **015 C**

**Matriculation Test - Level 2**

- **020 C**
- **030 C**
- **040 C**
- **038 C**

**Matriculation Test - Level 3**

- **141 C**
- **142 C**
- **100 C**
- **115 C**
- **120 C**
- **130 C**

**Matriculation Test - Level 4**

- **150AC**
- **150BC**
- **250AC**
- **250BC**

If you have not taken a Math course within the last two years, you are strongly advised to begin at a level that you have already completed with a “C” or better.

A graphing calculator comparable to the TI-84 is required for MATH 115 C, 120 C, and 130 C. A scientific calculator is required for all other math courses except MATH 010 C.
MATH 025 C  ELEMENTARY ALGEBRA REVIEW
2 Units
Two hours lecture per week.
Pass/No Pass
NON-DEGREE CREDIT
Prerequisite: MATH 020 C or Algebra I with a minimum grade of "C" or better AND the assessment process. Proof of prerequisites is required. This course is a review of the introductory methods of algebra and is designed for students who have completed Elementary Algebra and plan to enroll in Intermediate Algebra. It includes the basic operations of real numbers, polynomials, rational and radical expressions; factoring polynomials, solutions of linear equations and inequalities, systems of linear and quadratic equations, and graphing of linear equations, systems, and inequalities. This course requires the use of a non-graphing scientific calculator.

MATH 030 C  PLANE GEOMETRY
4 Units
Four hours lecture per week.
AA GE
Prerequisite: MATH 020 C or Algebra I with a grade of "C" or better AND the assessment process. Proof of prerequisites is required. This course is an introduction to Euclidean geometry. It includes the study of elementary logic, deductive reasoning, parallel and perpendicular relationships, theorems and proofs, geometric constructions, congruent and similar polygons, special right triangles, circles, geometric loci, areas, perimeters and volumes. Precise definitions and accuracy of statements are stressed as background for analytical reasoning. This course requires the use of a non-graphing scientific calculator and is equivalent to one year of high school geometry.

MATH 038 C  PRACTICAL MATHEMATICS FOR LIFE
4 Units
Four hours lecture per week.
AA GE
Prerequisite: A minimum grade of "C" in MATH 020 C or Algebra I with a grade of "C" or better and the assessment process. Proof of prerequisites is required. This course uses the concepts of beginning algebra, problem solving skills, and analytical thinking to solve real world applications involving fractions, financial management, logic, geometry, probability and statistics. It meets the minimum mathematics requirement for an associates degree but does not satisfy the prerequisite for a transferable math course.

MATH 040 C  INTERMEDIATE ALGEBRA
4 Units
Four hours lecture per week.
AA GE
Prerequisite: MATH 020 C or Algebra I with a grade of "C" or better AND the assessment process. Proof of prerequisites is required. This is a second course in algebra that includes the topics of sets, axioms for the real number system, polynomials, solutions of linear and quadratic equations and inequalities, exponents and radicals, linear, quadratic, exponential and logarithmic functions and their graphs, and systems of equations. This course requires the use of a non-graphing scientific calculator.

MATH 045 C  INTERMEDIATE ALGEBRA REVIEW
2 Units
Two hours lecture per week.
Pass/No Pass
NON-DEGREE CREDIT
Prerequisite: MATH 040 C or Algebra II with a grade of "C" or better AND the assessment process. Proof of prerequisites is required. This course is a review of Intermediate Algebra and is designed for students who have already completed Intermediate Algebra and are planning to enroll in College Algebra, Trigonometry, Survey of Calculus, Finite Mathematics, Mathematics for Liberal Arts Students, Intro to Probability and Statistics, or General Chemistry. The topics covered include sets, axioms for the real number system, polynomials, solutions of linear and quadratic equations and inequalities, exponents and radicals, linear and quadratic functions and their graphs, exponential and logarithmic functions and systems of equations. This course requires the use of a non-graphing scientific calculator. This course does not count toward the Associate Degree.

MATH 098 C  MATHEMATICS SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion approach to special topics involving mathematics. It may be a problem session relating to a particular course in the curriculum or a study of topics not ordinarily covered in the curriculum. Consult the class schedule to verify unit credit for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

MATH 099 C  MATHEMATICS INDEPENDENT STUDY
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
One-half to two hours assigned independent study or research per week.
Pass/No Pass or Letter Grade Option
Prerequisite: Approved Independent Study Learning Contract. This course is for students who have demonstrated interest in and capability for increased knowledge of mathematical topics not ordinarily covered in curriculum courses. Students will participate in independent study or research on assigned projects under staff supervision.

MATH 100 C  LIBERAL ARTS MATHEMATICS
3 Units
Three hours lecture per week.
CSU, AA GE, UC/CSU GE, IGETC
Prerequisite: MATH 030 C and MATH 040 C or Plane Geometry and Algebra II with grades of "C" or better AND the assessment process. Proof of prerequisites is required. This is a survey course with selected topics from the history and development of mathematics, elementary logic and set theory, probability, statistics, geometry, and exponential and logarithmic applications. The course is designed for prospective teachers and liberal arts students.
MATH 110 C  REAL NUMBERS FOR TEACHERS
4 Units
Four hours lecture per week.
UC/CSU, AA GE
Prerequisite: MATH 030 C and 040 C or Plane Geometry and Algebra II with grades of “C” or better AND the assessment process. Proof of prerequisites is required. This course is an introduction to problem solving processes and strategies. Students explore the development and analysis of the structure and operations of the real number system. Students focus on concept and process development using appropriate models, manipulatives, and activities. This course is designed for prospective elementary and middle school teachers. This course requires the use of a non-graphing scientific calculator.

MATH 115 C  FINITE MATHEMATICS
4 Units
Four hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 040 C or Algebra II with a grade of “C” or better AND the assessment process. Proof of prerequisites is required. This course covers graphing, finance, matrices, linear systems, linear programming, combinatorial analysis, probability, and descriptive statistics. Applications to the fields of business, economics, biological sciences, and behavioral sciences are emphasized. This course requires the use of a graphing calculator comparable to the TI-83/84.

MATH 120 C  INTRODUCTION TO PROBABILITY & STATISTICS
4 Units
Four hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 040 C or Algebra II with a grade of “C” or better AND the assessment process. Proof of prerequisites is required. This course is an introduction to the elements of statistical analysis which includes an intuitive approach to the study of probability and probability distributions, measures of central tendency and dispersion, sampling techniques, parametric and non-parametric tests of hypotheses, point and interval estimation, linear regression and correlation. Applications to business, biological sciences, and social sciences are emphasized. Students will use computer software and/or graphing calculators for statistical analysis of various topics. This course requires the use of a graphing calculator comparable to the TI-83/84.

MATH 130 C  SURVEY OF CALCULUS
4 Units
Four hours lecture per week.
Credit by Examination
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 040 C or Algebra II with a grade of “C” or better AND the assessment process. Proof of prerequisites is required. This course is an introduction to calculus with an emphasis on solution techniques and applications rather than abstract theory. It includes elements of analytic geometry, limits, derivatives, integration as a summation process, exponential and logarithmic functions, integration of basic forms, techniques of integration, an introduction to multi-variable calculus, and curve sketching, with applications from the life sciences, engineering technology, economics, and the social sciences. This course requires the use of a graphing calculator comparable to the TI-83/TI-84.

MATH 141 C  COLLEGE ALGEBRA
4 Units
Four hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 030 C and MATH 040 C with grades of “C” or better or plane geometry and Algebra II with grades of “C” or better AND the assessment process. Proof of prerequisites is required. This is one of two courses to prepare students for the calculus sequence. The topics covered include a review of the fundamentals of algebra; rational, exponential and logarithmic functions; theory of equations and zeros of polynomial functions; systems of equations including linear and quadratic systems; matrices and determinants; sequences and series; mathematical induction; permutations; combinations; binomial theorem; analytic geometry; conic sections; and miscellaneous topics.

MATH 142 C  TRIGONOMETRY
4 Units
Four hours lecture per week.
CSU, AA GE, CSU GE
Prerequisite: MATH 030 C and 040 C or plane geometry and Algebra II with grades of “C” or better AND the assessment process. Proof of prerequisites is required. Advisory: MATH 141 C College Algebra or the equivalent of Math Analysis or Precalculus with a grade of “C” or better. This is a one-semester course in trigonometry designed to prepare students for the study of calculus. The topics to be covered include the following: measurements of angles, trigonometric and inverse trigonometric functions and their graphs, solving trigonometric equations, verifying trigonometric identities, solutions of triangles, complex numbers, polar coordinates, vectors, De Moivre’s Theorem, and parametric equations.

MATH 150AC  CALCULUS I
4 Units
Four hours lecture per week.
Credit by Examination
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 141 C and MATH 142 C or trigonometry and math analysis/precalculus with grades of “C” or better AND the assessment process. Proof of prerequisites is required. This course is an introduction to mathematical analysis. It includes the study of analytic geometry, functions and limits, continuity, differentiation and integration. Problem work includes applications involving derivatives, definite integrals and indefinite integrals.

MATH 150BC  CALCULUS II
4 Units
Four hours lecture per week.
Credit by Examination
UC/CSU, AA GE, IGETC
Prerequisite: MATH 150AC or Calculus I and Analytic Geometry with a grade of “C” or better AND the assessment process. Proof of prerequisites is required. This course is a continuation of Math 150A, which includes the study of applications of integration, techniques of integration, indeterminate forms, L’Hopital’s rule, improper integrals, infinite sequences and series, power series, Taylor and Maclaurin series, conic sections, plane curves, parametric equations, and polar coordinates.
MEDICINE TRANSFER PROGRAM

Professional programs such as dentistry, medicine, pharmacy, optometry, physician assistant, physical therapy and veterinary medicine are most often graduate programs that require a bachelor degree or significant preparation prior to entering the program. The appropriate preparation varies according to the school and specific program. Students are advised to meet with a counselor to discuss options for their bachelor degree and the lower division requirements for the program and school of their choice.

Merchandising

Division of Business and Computer Information Systems

Division Dean – Dave Wassenaar

Counselors
Jean England
Robert Grantham

ASSOCIATE IN ARTS DEGREE BUSINESS ADMINISTRATION  Program Code: 1A16599

This curriculum is designed to provide an opportunity for the business major to achieve an Associate in Arts Degree Business Administration while completing the first and second year requirements for transfer to a four-year institution. While a baccalaureate degree is recommended preparation for those considering professional careers in business administration, completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work.

Students should consult a counselor and the catalog of the individual college or university to plan a program of study. The internet site www.assist.org will also provide information for California public universities. Courses selected to fulfill the requirements of the associate degree should reflect requirements of the college to which the student plans to transfer.
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 percent 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 are listed in suggested sequence:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 161 C</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>*ECON 100 C</td>
<td>Principles of Economics-Macro</td>
<td>3</td>
</tr>
<tr>
<td>**ECON 105 C</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
<tr>
<td>**ECON 105HC</td>
<td>Honors Principles of Economics</td>
<td>(3)</td>
</tr>
<tr>
<td>MGT 240 C</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 241 C</td>
<td>Legal Aspects-Business Trans.</td>
<td>(3)</td>
</tr>
<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 102 C</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>MATH 130 C</td>
<td>Survey of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**Elective:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 211 C</td>
<td>Writing for Business</td>
<td>3</td>
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</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Economics (macro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Economics (micro) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

**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 percent 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.

**MERCHANDISING TRANSFER PROGRAM**

Refer to Catalog under BUSINESS ADMINISTRATION TRANSFER PROGRAM

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.
Mortuary Science

Division of Health Science

Division Dean – John Sciacca

Faculty
Kathleen Boettger
Glenn Bower
Jolena Grande
Dave McCament

Counselors
Kelly Carter
Denise Vo

PROGRAM LEARNING OUTCOMES (PLOs)
Program Learning Outcomes (PLOs) are in the process of finalization.

GOALS AND OBJECTIVES OF PROGRAM
The Mortuary Science Program at Cypress College has as its central aim recognition of the importance of funeral service education 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 enable them to develop the proficiency and skills necessary in the profession, as defined above.

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 research in the field of funeral service.

MINIMUM STANDARDS FOR APPLICANTS
1. Eligibility for admission to Cypress College.

2. High school transcripts, a GED test with a minimum score of 45, or a high school proficiency examination.

3. Present evidence of good physical and mental health.

4. English Placement Test with a score to qualify for ENGL 100 C or completion of ENGL 060 C with the grade of “C” or better or ESL 186 C with a grade of “C” or better.

5. One semester of college General or Human Biology, Anatomy, or Introductory Chemistry completed with a cumulative grade of “C” or better.

APPLICATION PROCEDURES
1. In addition to the Cypress College application form, a separate application is required for admission into the Mortuary Science Program. These applications may be obtained from the Health Science Application Office, downloaded from the Internet, or by sending a self addressed stamped envelope to:

   Health Science Division Application Office
   Cypress College
   9200 Valley View Street
   Cypress, CA 90630-5897

2. A total of 30 new students are selected each spring and fall semester. Applicants may exceed the available seat space. Prioritization of qualified applicants will determine acceptance.

3. Applicants are responsible for submitting all documents (records, forms and transcripts) indicating minimum standards and prerequisites have been met to the Health Science Counseling Office.

SELECTION PROCEDURES
Selection of students for acceptance is based on the date of completed application which includes submission of all transcripts and required documents.

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. All students completing the Mortuary Science Program curriculum after January 1, 2006, must complete the Associate of Science Degree in Mortuary Science. The Mortuary Science Program at Cypress College is accredited by the American Board of Funeral Service Education (ABFSE), 3414 Ashland Avenue, Suite G, St. Joseph, MO 64506, (816) 233-3747, www.abfse.org, and meets the mortuary science or funeral service educational requirements for most states. 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 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) take the National Board Examination (This policy supercedes all previous catalogs – students need to submit National Board Examination results to Admissions and Records no later than the date listed for “Final Transcript for In-Progress Work” 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. At least 50 percent of all major course work must be completed at Cypress College.

To be eligible to write the National Board Examination, the student must be within 45 days of completing the Associate in Science Degree in Mortuary Science. We recommend the general education graduation requirements be taken prior to enrolling in Mortuary Science courses so that the student can write the examination immediately upon completion of the mortuary science curriculum.

The annual passage rate of first-time takers on the National Board Examination (NBE) for the most recent three-year period for this institution and all ABFSE accredited funeral service education programs is posted on the ABFSE web site (www.abfse.org).
**National Board Exam Statistics**

<table>
<thead>
<tr>
<th>Year</th>
<th># of Takers</th>
<th># Who Passed</th>
<th>% Who Passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>26</td>
<td>23</td>
<td>88%</td>
</tr>
<tr>
<td>2007</td>
<td>37</td>
<td>30</td>
<td>81%</td>
</tr>
<tr>
<td>2008</td>
<td>32</td>
<td>28</td>
<td>88%</td>
</tr>
<tr>
<td>2009</td>
<td>33</td>
<td>29</td>
<td>88%</td>
</tr>
</tbody>
</table>

**Mortuary Science (MORT)**

**MORT 085 C  Work Experience**

1 - 4 Units  (Variable Unit Class) (May be taken for credit 4 times)

One hour lecture per week and Five to twenty hours related employment per week in an approved funeral establishment.

**Prerequisite:** Admission to Mortuary Science Program. Must be enrolled in seven units or more in the Mortuary Science Program, including work experience. This course focuses on exploring work related issues in a funeral establishment of the student’s own selection. Discussion of funeral service business and related technical issues are explored. The course includes job analysis, writing a resume, self management, self development and employer-employee relations.

**MORT 160 C  Orientation to Funeral Service**

3 Units

Three hours lecture per week.

**CSU**

**Prerequisite:** Admission to the Mortuary Science Program. This course is designed to acquaint the mortuary science student with general information on the practice of the funeral profession. Topics covered include: notification of death, transfer of remains, the arrangement conference, prefunded/preplanned funerals, shipment of remains, cremation, and aftercare, as well as the basic principles of merchandising as it applies to the funeral profession, construction and features of caskets, outer burial containers, and other funeral related products; and methods of display and presentation. In addition, the progression of associations and education within funeral service will be discussed.

**MORT 163 C  Embalming Anatomy/Pathology I**

5 Units

Five hours lecture per week.

**CSU**

**Prerequisite:** Admission to the Mortuary Science Program. This introductory course is designed for the mortuary science student, surveys general anatomical, physiological and pathological concepts processes and terminology important to the funeral service practitioner in understanding the embalming process, articulating with allied health/forensic professionals, interpreting death certificates and protecting oneself and the public against communicable disease. Also considered are those medical and forensic pathologies presenting particular embalming and restorative problems.

**MORT 164 C  Funeral Service Thanatology I**

2 Units

Two hours lecture per week.

**CSU**

**Prerequisite:** Completion of or concurrent enrollment in MORT 160 C. This course is an introduction to thanatology, basic psychological terminology and theories. Emphasis is on the study of grief, bereavement, and mourning. The content provides the knowledge required of the funeral director to work effectively with families as a facilitating agent. The needs of the families served are studied in relation to the design and implementation of the funeral rite.
MORT 165 C  FUNERAL SERVICE MANAGEMENT I  
2 Units  
Two hours lecture per week.  
CSU  
Prerequisite: Completion of or concurrent enrollment in MORT 160 C. Designed for the mortuary science student, the course is a vocationally oriented survey of funeral service management as it applies to funeral home operations, mortuary management, and financial decision-making. Information presented covers financial statements and their analysis, worksheets, journalizing, receivables, payables, deferrals, and accruals. Inventory costing models, depreciation models, and funeral service payroll accounts are also included.

MORT 170 C  FUNERAL SERVICE CEREMONIES  
3 Units  
(Formerly MORT 270 C)  
Three hours lecture per week.  
CSU  
Prerequisite: Completion of or concurrent enrollment in MORT 160 C. This course is designed to introduce the student to American funeral service practices and procedures in military, fraternal and religious funerals for a complete understanding of all principles and variations involved.

MORT 261 C  RESTORATIVE ART I  
2 Units  
(Formerly MORT 161 C)  
One hour lecture and  
Three hours laboratory per week.  
CSU  
Prerequisite: Completion of or concurrent enrollment in MORT 263 C. A detailed study is made of each of the facial features and its relationship to a complete restoration. In the laboratory the student has an opportunity to follow through with the modeling in clay of the features studied, both as a single feature and using plaster of Paris heads for reproduction.

MORT 262 C  EMBALMING I  
3 Units  
(Formerly MORT 162 C)  
Two hour lecture and  
Three hours laboratory per week.  
CSU  
Prerequisite: Completion of or concurrent enrollment in MORT 263 C. This course is designed to include basic orientation, history of embalming to present times, moral and sanitary considerations of embalming, methods of handling human remains, including those of a contagious or infectious nature, demonstration of the various methods of preparation and disinfection treatment of bodies contaminated by radiation.

MORT 263 C  EMBALMING ANATOMY/PATHOLOGY II  
3 Units  
(Formerly MORT 273 C)  
Three hours lecture per week.  
CSU  
Prerequisite: MORT 163 C. Designed for the Mortuary Science student, and a continuation of MORT 163 C, the course surveys general anatomical, physiological and pathological concepts as they relate to the various systems of the human body. The body systems are studied in detail as they relate to preservation and disinfection for safeguard measures in handling and embalming of human remains to protect public health and the embalmer. Throughout the course, terminology is emphasized to facilitate interpretation of death certificates.

MORT 265 C  FUNERAL SERVICE MANAGEMENT II  
4 Units  
(Formerly MORT 295 C)  
Four hours lecture per week.  
CSU  
Prerequisite: MORT 160 C and MORT 165 C. This course is a continuation of MORT 165 C designed to introduce the mortuary science student to the basic principles of management, merchandising, and effective managerial skills as they apply to the practice of the funeral profession; to the financial aspects of funeral business operation, concepts of financial management and the use of financial information in decision-making relative to cost analysis and control, pricing, inventory and in assessing the firm’s performance; and credit policies and practices.

MORT 271 C  RESTORATIVE ART II  
2 Units  
One hour lecture and  
Three hours laboratory per week.  
CSU  
Prerequisite: MORT 261 C and MORT 263 C. This is a continuation of MORT 261 C, with emphasis upon major restorations and explains how all previous restorative art work can be used to complete each type of case. Color theory and cosmetology are discussed. In the lab the student will perform feature modeling in wax on both plaster of Paris and latex heads. In addition there is practical work in cosmetics, hair dressing, color pigments and preparation of death masks.

MORT 272 C  EMBALMING II  
4 Units  
Three hours lecture and  
Three hours laboratory per week.  
CSU  
Prerequisite: MORT 262 C and MORT 263 C. This is a continuation of MORT 262 C, with emphasis upon the development of embalming techniques, dead human remains having various diseases, treatment of localized areas by supplemental methods of preservation and the application of embalming theories ranging from pre-embalming analysis to funeral home visitation room appearance, in a laboratory environment.

MORT 274 C  FUNERAL SERVICE THANATOLOGY II  
3 Units  
Three hours lecture per week.  
CSU  
Prerequisite: MORT 160 C, MORT 164 C, and MORT 170 C. This course is a continuation of MORT 164 C, with emphasis on the grief process, normal and abnormal, and the resolution of grief. Follow-up programs initiated by the funeral director are examined in detail as well as community support groups with whom the funeral director participates. Major emphasis is placed on the student identifying problem areas in the field, making a plan for intervention, and making appropriate referrals to community professionals.

MORT 275 C  MORTUARY LAW I  
3 Units  
Three hours lecture per week.  
CSU  
Prerequisite: MORT 160 C and completion of or concurrent enrollment in MORT 265 C. This course designed for the Mortuary Science student, surveys the American legal system, its development, and the major bodies of law as they relate to the legal environment in which the funeral business operates. The legal aspects of funeral service contracts, funeral service sales, and the use of commercial paper are also considered. This course will also look at the professional ethics used by funeral service providers as it relates to the legal aspects of the funeral home establishment.
MORT 285 C  MORTUARY LAW II
3 Units
(Formerly MORT 291 C)
Three hours lecture per week.
CSU
Prerequisite: MORT 265 C and MORT 275 C. This course is a
continuation of MORT 275 C designed to introduce the mortuary
science student to sources of law, legal status of the dead human
body, duty of burial, right to control funeral arrangements, final
disposition, and liability for funeral expenses; torts involving the
dead human body and the funeral director; wills, estate, and pro-
bate proceedings; cemeteries and related issues; state and fed-
eral laws and regulations pertaining to funeral service; as well as
the legal aspects of being a licensed funeral director/mortician.

MORT 292 C  FUNERAL SERVICE SCIENCE
2 Units
Two hours lecture per week.
CSU
Prerequisite: Completion of or concurrent enrollment in MORT 272
C. This course is designed to familiarize the Mortuary Science
student with the nature of chemicals utilized in the mortuary set-
ing, and to provide a qualitative understanding of the chemical
aspects of tissue decomposition and preservation. Embalming of
protein and the effects relative to the blood, body pigments and
tissue staining are a primary emphasis of the course.

MORT 293 C  MORTUARY COMPUTER
APPLICATIONS
2 Units
One hour lecture and
Three hours laboratory per week.
CSU
Prerequisite: Completion of or concurrent enrollment in all required
courses for the Associate in Science Degree Mortuary Science.
The course is designed to provide the mortuary science student
with an overview of considerations relevant to the operation of the
funeral home as a small business through the use of hands-on
experience with appropriate mortuary science computer software,
as well as the Federal Trade Commission Funeral Rule. $96.00
Materials Fee – PAYABLE AT REGISTRATION.

MORT 294 C  FUNERAL SERVICE COUNSELING
4 Units
Four hours lecture per week.
CSU
Prerequisite: MORT 274 C. This is a course aimed at the study of
concepts, techniques and procedures used by the funeral director
in his/her role as a counselor.

Motorcycle Technology –
See Automotive Technology
(AT)
MULTIMEDIA PHOTOGRAPHY
CERTIFICATE  Program Code: 1C13043
This certificate is designed to prepare the student to work with a variety of photographically based digital applications within the field of Multimedia. This flexible module allows the student to develop their own emphasis with in the possible course offerings.

To earn a certificate, students must complete the required major courses as listed with a minimum grade of “C” for each course. At least 50 percent of all course work must be completed at Cypress College.

Required courses are listed in suggested sequence:
<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM 100 C</td>
<td>Introduction to Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>MM 110 C</td>
<td>Visual Communications</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 101 C</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 103 C</td>
<td>Photographic Possibilities</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 207 C</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 208 C</td>
<td>Advanced Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 209 C</td>
<td>Careers in Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 215 C</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 216 C</td>
<td>Advanced Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 217 C</td>
<td>3D Photo Imaging</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Any one of the following may be substituted for the above except PHOT 103 C, PHOT 215 C, PHOT 207 C because these are prerequisite courses

PHOT 050 C | Photography Special Projects         | 3     |
PHOT 104 C | Wedding Photography                   | 3     |
PHOT 109 C | Portrait Photography                  | 3     |
PHOT 200 C | Conceptual Photography                | 3     |
PHOT 219 C | Photography for Publication           | 3     |

MULTIMEDIA ADVERTISING CERTIFICATE  (pending state approval)  Program Code: 1K00088
The certificate program will enable students to apply multimedia production skills and knowledge in such areas as Internet, computer imaging, photography, art and music to careers in the field of advertising, developing promotional materials to communicate with customers.

To earn a certificate, students must complete the required courses as 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:
<table>
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<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM 100 C</td>
<td>Introduction to Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>MM 110 C</td>
<td>Visual Communication</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 101 C</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>MKT 103 C</td>
<td>Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>CIS 115 C</td>
<td>DeskTop Publishing - Publisher</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>CIS 179 C</td>
<td>Intro. To Web Page Design</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>16-18</td>
</tr>
</tbody>
</table>

Multimedia (MM)

MM 100 C  INTRODUCTION TO MULTIMEDIA
3 Units
Three hours lecture per week.
CSU
This class is designed to introduce the student to the various disciplines involved in the creation of multimedia products. These disciplines include information systems, computer graphics and visual design, digital photography, electronic music, digital journalism and video.

MM 101 C  INTRO. TO ONLINE LEARNING
1 Unit
One hour lecture per week.
Pass/No Pass/Letter Grade Option
CSU
This course prepares the student for the online education experience through direct application of online courseware tools such as chat, discussion, file exchange, homepage, course calendar, online gradebook, and external links. It also explores word processing basics, time management, troubleshooting, electronic mail, e-mail attachments, Internet navigation and research, file transfer protocol and other Internet services.

MM 110 C  VISUAL COMMUNICATION
3 Units
Three hours lecture per week.
UC/CSU
An introduction to the concepts and techniques of visual perception, color and design using graphic, photographic and video images, with the computer as a tool, for multimedia production. Emphasis is on thinking processes and problem solving basic to creative visual work.
Music
Division of Fine Arts

Division Dean – Ting-Pi (Joyce) Carrigan

Faculty
Sheridan Ball
George Beyer
Helena DeCoro
Joe Gallo
Kathryn Reid

Counselors
Renay Lagna-Ferinac
Renee Ssensalo

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

Music Department
- Given a variety of music materials and subject matter, students will be able to critically analyze the content and creation through composition, process, and music historical context.
- Given a variety of music materials and subject matter, students will be able to discuss the content and creation of music, through composition, process, and music historical context.
- Given a variety of music materials and subject matter, students will be able to personalize the social and psychological aspects of the content and creation through composition, process and music historical context.

COMMERCIAL MUSIC - MANAGEMENT CERTIFICATE Program Code: 1K12951
A synthesis of Music and Business courses, this certificate enables students to develop the management, marketing, and entrepreneurial skills necessary for success in the Music Industry.

To earn a certificate, students must complete the required courses as 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:
Course # Title Units
MUS 111 C The Music Business 3
MUS 212 C Music Promotion & Distribution 3
MKT 222 C Principles of Marketing 3
MGT 261 C Small Business Management 3
MGT 266 C Human Relations in Business 3
or
MUS 117 C American Popular Music (3)

Total Units Required 15

Recommended Electives
CIS 111 C Computer Information Systems (3)
MKT 224 C International Marketing (3)
MUS 055 C Music Work Experience (1)

ASSOCIATE IN ARTS DEGREE
MUSIC Program Code: 1A03777
The Associate in Arts Degree in Music is designed to prepare the student for a career as a professional musician. This curriculum includes music history and theory, as well as applied instruction and performance experience on his or her particular instrument.

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.

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:
Course # Title Units
*MUS 103AC Theory and Musicianship I 4
*MUS 103BC Theory and Musicianship II 4
*MUS 203AC Theory and Musicianship III 4
*MUS 203BC Theory and Musicianship IV 4
MUS 120 C Survey of Music History 3
MUS 122 C Concert Hour 1,1
MUS 135 C Beginning Piano 1,1
MUS 225 C Applied Music 1, 1, 1, 1

Select a minimum of 1 unit each semester from the following performing ensembles for a total of 4 units:
MUS 175 C Swing Band 1,1,1,1
MUS 260 C Classical Guitar Ensemble 1,1,1,1
MUS 271 C Symphony Orchestra 1,1,1,1
MUS 273 C Concert Band 1,1,1,1
MUS 274 C Cypress Symphonic Winds 1,1,1,1
MUS 276 C Jazz Band 1,1,1,1
MUS 277 C Jazz Lab Band 1,1,1,1
MUS 280 C Jazz/Musical Theater Choir 1,1,1,1
MUS 281 C Concert Choir 1,1,1,1
MUS 282 C Cypress Masterworks Chorale 1,1,1,1
MUS 283 C Cypress Singers 1,1,1,1
MUS 284 C Cypress Meistersingers 1,1,1,1
MUS 285 C Chamber Singers 1,1,1,1
MUS 287 C Cypress Jazz Singers 1,1,1,1
MUS 289 C Gospel Choir 1,1,1,1

Total Units Required 33

* A score of 3 or higher on the Advanced Placement (AP) Music Theory exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

RECORDES ARTS CERTIFICATE Program Code: 1K12958
This program was developed for prospective record producers, recording engineers, and songwriters, giving them an insider’s look at the way music is recorded today. Students will gain hands-on experience in “state of the art” facilities.

To earn a certificate, students must complete the required courses as listed with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.
Music (MUS)

MUS 055 C  MUSIC WORK EXPERIENCE  
1 - 4 Units (Variable Unit Class) (May be taken for credit 4 times)  
One hour lecture per week.  
Corequisite: Must be enrolled in seven units, including work experience. This course provides 1 unit of credit for a minimum employment of 5 hours per week for 18 weeks. Students may take a maximum of 4 units each semester. (20 hours per week for 18 weeks).

MUS 100 C  MUSIC LABORATORY  
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)  
Three to six hours laboratory TBA per week.  
Pass/No Pass  
CU  
Corequisite: Concurrent enrollment in a music course with a lab.  
This course is designed to supplement music courses with a lab component. For each 48 hours beyond the requirements of the corequisite class that the student spends in directed laboratory activities one unit of credit will be granted, up to a maximum of two units per semester. All hours must be verified by sign-in sheets and/or computerized attendance.

MUS 101 C  MUSIC FUNDAMENTALS  
3 Units  
Three hours lecture per week.  
UC Credit Limitation/CSU, AA GE, CSU GE  
This cross cultural course covers the elements of sound, their application and effect in musical structures. The historical evolution of music, notation, and its understanding and application are presented in an international societal context. It is open to all students but designed for the non-music major.

MUS 102 C  MUSIC READING  
3 Units  
Three hours lecture per week.  
UC/CSU  
This course is designed to teach students how to read music from the printed page. Participants will learn basic skills, such as identifying note names and rhythm values, and will progress to the primary levels of sightsinging and developing the inner ear, a skill vital to every musician.

Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 055 C</td>
<td>Music Work Experience</td>
<td>1</td>
</tr>
<tr>
<td>MUS 111 C</td>
<td>The Music Business</td>
<td>3</td>
</tr>
<tr>
<td>MUS 124 C</td>
<td>Recording Studio I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 178 C</td>
<td>Digital Music Technology</td>
<td>3</td>
</tr>
<tr>
<td>MUS 224 C</td>
<td>Recording Studio II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 224LC</td>
<td>Recording Studio Lab</td>
<td>1</td>
</tr>
<tr>
<td>MUS 176 C</td>
<td>Popular Songwriting</td>
<td>3</td>
</tr>
<tr>
<td>or MUS 177 C</td>
<td>Songwriting Workshop (3)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units Required** 17

**MUSIC TRANSFER PROGRAM**

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

**MUS 103AC  THEORY AND MUSICIANSHIP I**  
4 Units  
Five hours lecture and  
One hour laboratory per week.  
UC/CSU, AA GE, CSU GE, IGETC  
Prerequisite: Ability to read music. Advisory: Concurrent enrollment in a piano class. This is the FIRST COURSE in music theory for music majors. Topics include basic terminology, rhythmic and pitch notation, diatonic scales and triads, intervals, chord progressions and basic cadential formulas, dominant seventh chords, figured bass, non-harmonic tones, sight-singing, and melodic, harmonic, and rhythmic dictation.

**MUS 103BC  THEORY AND MUSICIANSHIP II**  
4 Units  
Five hours lecture and  
One hour laboratory per week.  
UC/CSU  
Prerequisite: MUS 103AC. This course is a continuation of MUS 103AC. It includes major, minor, and dominant seventh chords, diminished seventh chords, musical texture, voice leading and part writing in 2 and 4 voices, harmonic progression, sight-singing, melodic and harmonic dictation, and the development of rhythmic reading skills.

**MUS 111 C  THE MUSIC BUSINESS**  
3 Units  
Three hours lecture per week.  
CSU  
From copyrights to contracts, this course covers the essential elements of the music industry for performers, songwriters, producers, and managers. Topics include intellectual property law (copyrights), management contracts, publishing companies, performance rights societies, licensing procedures, record manufacturing and distribution, and an overall look at the dynamics of the music and entertainment industries. Guest speakers will appear according to availability.

**MUS 113 C  JAZZ HISTORY**  
3 Units  
Three hours lecture per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE, IGETC, CUL DIV  
This is a survey course which traces the history and development of jazz music from its inception to the present day. The music, both live and from recordings, is studied from a cultural, musical, historical, and sociological standpoint. Concert attendance is required. Open to all students.

**MUS 116 C  MUSIC APPRECIATION**  
3 Units  
Three hours lecture per week.  
Pass/No Pass/Letter Grade Option  
UC/CSU, AA GE, CSU GE, IGETC  
A survey of music literature from the Middle Ages to the present. Students will gain an understanding of music as an art form through listening and discussion of choral, orchestral, solo, opera, chamber and jazz works. Concert attendance is required. Open to all students, but designed for the non-music major.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 117 C</td>
<td>AMERICAN POPULAR MUSIC</td>
<td>3</td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option. UC/CSU, AA GE, CSU GE, IGETC. A historical and musical study of American popular music from its origin to the present. The primary focus will be on musical styles with secondary emphasis on sociological, political, and economic conditions which influenced the music of America. Concert attendance required.</td>
</tr>
<tr>
<td>MUS 118 C</td>
<td>INTRODUCTION TO OPERA</td>
<td>3</td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option. UC Credit Limitation/CSU, AA GE, CSU GE, IGETC. This course is an introduction to the standard operatic repertoire in terms of development of musical style, dramatic structure, and performance tradition. Emphasis is on elements of the art of operatic singing, voice classification, vocal range and technique, and dramatic values. Opportunities for attendance at operatic performances will be provided. Cost of music concert will not exceed $30.00. Duplicate credit not granted for MUS 118HC.</td>
</tr>
<tr>
<td>MUS 119 C</td>
<td>HISTORY OF ROCK MUSIC</td>
<td>3</td>
<td>Three hours lecture per week. Pass/No Pass/Letter Grade Option. UC/CSU, AA GE, CSU GE, IGETC. From its earliest beginnings to the present day, this course surveys the inception, evolution, and development of Rock music in America and abroad. In addition to in-depth studies of Rock music and the artists who created it, students will examine the sociological, political, and economic conditions which influence its development.</td>
</tr>
<tr>
<td>MUS 120 C</td>
<td>SURVEY OF MUSIC HISTORY</td>
<td>3</td>
<td>Three hours lecture per week. UC/CSU, AA GE, CSU GE, IGETC. This course is designed for music majors or non-majors with some musical background. Students will study Western stylistical trends, major forms and theory from antiquity to the present. Recordings, video tapes, and live musical performances are used to emphasize material covered in class discussions.</td>
</tr>
<tr>
<td>MUS 122 C</td>
<td>CONCERT HOUR</td>
<td>1</td>
<td>One hour lecture per week. Pass/No Pass/Letter Grade Option. UC, AA GE, CSU GE. The concert hour is set aside for on-campus concerts and recitals. A variety of soloists and ensembles will perform music of many styles from the sixteenth century to the present. Students will have an opportunity to observe, listen and discuss with the performers the characteristics of various musical styles and performance techniques. Open to all students.</td>
</tr>
<tr>
<td>MUS 124 C</td>
<td>RECORDING STUDIO I</td>
<td>3</td>
<td>Two hours lecture and Four hours laboratory per week. CSU. This class covers the fundamental concepts in audio recording technology. Topics include studio business practices, microphones, mixers, signal processors, the sound field, monitors, recording and editing devices, and synchronization.</td>
</tr>
<tr>
<td>MUS 126 C</td>
<td>BEGINNING VOICE</td>
<td>1</td>
<td>One hour lecture and One hour laboratory per week. Pass/No Pass/Letter Grade Option. UC/CSU, CSU GE. Students will study basic vocal techniques including tone production, breath control, and diction. Songs will be drawn from popular and traditional song literature.</td>
</tr>
<tr>
<td>MUS 130 C</td>
<td>BEGINNING GUITAR</td>
<td>1</td>
<td>One hour lecture and One hour laboratory per week. Pass/No Pass/Letter Grade Option. UC/CSU, CSU GE. This course introduces the basics of guitar playing to those with little or no previous experience. Basic technique, playing chords and melodies, and music reading are all covered in detail. Open to all students.</td>
</tr>
<tr>
<td>MUS 131 C</td>
<td>ELECTRIC BASS</td>
<td>3</td>
<td>Four hours laboratory per week. Two hours lecture and Three hours lecture per week. UC/CSU. This course uses group instruction to teach general techniques for the electric bass guitar. Blues, R&amp;B, rock, pop and jazz styles are emphasized.</td>
</tr>
<tr>
<td>MUS 135 C</td>
<td>BEGINNING PIANO</td>
<td>1</td>
<td>One hour lecture and One hour laboratory per week. Pass/No Pass/Letter Grade Option. UC/CSU, CSU GE. This course uses group instruction to teach general techniques for the electric bass guitar. Blues, R&amp;B, rock, pop and jazz styles are emphasized.</td>
</tr>
</tbody>
</table>
MUS 143 C  BEGINNING STRINGS
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
UC/CSU, CSU GE
This course teaches the fundamentals of string playing for anyone interested in learning to play the violin, viola, violoncello, or string bass. Students must supply their own instruments. Open to all students, no previous experience necessary.

MUS 146 C  WOODWIND CLASS
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
UC/CSU, CSU GE
This is a course for students who wish to play flute, oboe, clarinet, bassoon, or saxophone. Students must supply their own instruments. Open to all students, no previous experience necessary.

MUS 152 C  PERCUSSION CLASS
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU
This is a course for students who wish to play drums, timpani, mallet instruments, and other percussion instruments. The class will emphasize basic music reading and rhythmic accuracy. Open to all students, no previous experience necessary.

MUS 156 C  JAZZ IMPROV - INSTRUMENTAL
1 Unit (May be taken for credit 4 times)
One hour lecture and
Two hours laboratory per week.
UC/CSU
This class provides intermediate level instrumental students with the tools and techniques for jazz improvisation. Analysis of harmonic and melodic materials, extensive listening, and performance exercises will assist the student in his/her development as an improviser.

MUS 157 C  JAZZ IMPROVISATION - VOCAL
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
UC/CSU
This course offers vocal students training in jazz song-styling techniques focusing on swing, ballad, Latin, blues, and contemporary styles. Topics include rhythmic and melodic improvisation, microphone technique, and scat singing.

MUS 175 C  SWING BAND
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours in sectional rehearsals, recording, program production and/or concerts per week.
UC/CSU
Prerequisite: Audition. Students in this class will be involved in the rehearsal and concert performance of swing music in the style of the “Big Band Era” from the 1930’s to 1950’s.

MUS 176 C  POPULAR SONGWRITING
3 Units
Three hours lecture per week.
CSU
Prerequisite: MUS 101 C or MUS 103AC. Advisory: Concurrent enrollment in MUS 238 C. This is an intermediate to advanced workshop in popular songwriting. Students will analyze melody, harmony, song form, rhythm, and lyrics as they apply to popular songs. Emphasis will be placed on original compositions and composition by well-known songwriters and recording artists.

MUS 177 C  SONGWRITING WORKSHOP
3 Units (May be taken for credit 4 times)
Three hours lecture per week.
CSU
Prerequisite: MUS 176 C. Advisory: Concurrent enrollment in MUS 238 C. This is an intermediate to advanced workshop in popular songwriting. Students will analyze melody, harmony, song form, rhythm, and lyrics as they apply to popular songs. Emphasis will be placed on original compositions, while studying compositions by well-known songwriters and recording artists.

MUS 178 C  DIGITAL MUSIC TECHNOLOGY
3 Units
Three hours lecture and
Two hours laboratory per week.
CSU
A comprehensive study of how digital technology is used in the music industry today. Designed for students with interest in songwriting, recording, audio production, and/or multimedia. Students will get hands-on experience with MIDI, keyboard synthesizers, sound modules, sequencers, sound editors, notation software, audio file formats (.wav, .mp3, .mid, etc.), and mastering to compact disc.

MUS 203AC  THEORY AND MUSICIANSHIP III
4 Units
Five hours lecture and
One hour laboratory per week.
UC/CSU
Prerequisite: MUS 103BC. This course is a continuation of MUS 203AC. Topics include nondominant seventh chords, modulation, secondary dominant and leading-tone chords, binary and ternary form, analysis, sight-singing and ear-training.

MUS 203BC  THEORY AND MUSICIANSHIP IV
4 Units
Five hours lecture and
One hour laboratory per week.
UC/CSU
Prerequisite: MUS 203AC. This course is a continuation of MUS 203BC. Topics include borrowed chords, the Neapolitan sixth chord, the augmented sixth chords, ninth, eleventh, and thirteenth chords, sonata-allegro form, chromatic mediant relationships, musical composition, sight-singing and dictation.

MUS 212 C  MUSIC PROMOTION & DISTRIBUTION
3 Units
Three hours lecture per week.
CSU
Music entrepreneurs will learn business procedures to form their own company, emphasizing strategies for the sale and promotion of music. The course covers topics such as the music marketing environment, hands-on marketing techniques, online sales and promotion, and the effects of technology in music publishing.
MUS 224 C  RECORDING STUDIO II
3 Units (May be taken for credit 2 times)
Two hours lecture and
Four hours laboratory per week.
CSU
Prerequisite: MUS 124 C or MMMU 124 C. Corequisite: MUS 224LC. This course provides an introduction to digital audio concepts, recorders, synchronization, and the digital audio workstation. Students will be assigned projects in the music department’s recording facilities.

MUS 224LC  RECORDING STUDIO LAB
1 Unit (May be taken for credit 2 times)
Forty-eight hours laboratory per semester in the Recording Studio facilities.
Pass/No Pass
CSU
Corequisite: MUS 224 C. This course affords supplemental lab time for students enrolled in MUS 224 C. Students will complete individual and/or group projects in recording demonstrating their proficiency with studio techniques, recording, signal processing, mixdown, and audio production.

MUS 225 C  APPLIED MUSIC
1 Unit (May be taken for credit 4 times)
One hour lecture, and
One half-hour lesson with a private instructor per week.
UC/CSU
Prerequisite: Audition and concurrent enrollment in a performing ensemble. For the student seeking individual instruction on piano, voice, guitar, or any standard band or orchestra instrument. A performance at Faculty Juries is required each semester. Vocal and instrumental students should concurrently enroll in a choir or band class, pianists and guitarists should consult with faculty for an appropriate concurrent course.

MUS 227 C  INTERMEDIATE VOICE
1 Unit (May be taken for credit 2 times)
One hour lecture and
One hour laboratory per week.
UC/CSU
Prerequisite: MUS 126 C or by audition. This course continues the study of vocal performance techniques at an intermediate level. As with the beginning level voice class, the intermediate course deals primarily with tone production, breath control, diction, and choices of popular and traditional song literature.

MUS 229 C  VOCAL REPERTOIRE
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
CSU
Prerequisite: MUS 227 C or by audition. This class provides a workshop environment for the study of vocal repertoire at the intermediate-to-advanced level. Repertoire will be drawn from traditional styles such as art songs, lieder, arias, and oratorios, as well as jazz, musical theater, and contemporary music. Students will focus on the development of their lyric diction and performance skills while being exposed to a wide variety of vocal literature.

MUS 231 C  INTERMEDIATE GUITAR
1 Unit (May be taken for credit 2 times)
One hour lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU
Prerequisite: MUS 130 C, or by audition. This course continues the study of guitar performance at an intermediate level. Study focuses on the areas of technique, note reading, scales, and chords. A variety of musical styles, from classical to rock, are included in the repertoire.

MUS 232 C  CLASSICAL GUITAR
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
UC/CSU
Prerequisite: Audition. This course involves group instruction in classical guitar technique and interpretation of solo and ensemble literature for the instrument.

MUS 235 C  COMMERCIAL GUITAR AND BASS
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU
Prerequisite: Audition. This course emphasizes blues, jazz, and rock techniques for intermediate-to-advanced guitarists and bassists. Topics include scales in all positions, chords, arpeggios, accompaniment styles, reading chord charts and sheet music, and practical theory. Students will obtain vocational “real world” experience to prepare them for careers as a professional guitarist and/or bassist.

MUS 236 C  INTERMEDIATE PIANO
1 Unit (May be taken for credit 2 times)
One hour lecture and
One hour laboratory per week.
UC/CSU
Prerequisite: MUS 135 C or by audition. This is a study of keyboard literature and techniques in a class situation. Emphasis is on individual progress in execution and interpretation. Designed for both music majors and non-majors whose piano skills are beyond Beginning Piano but not yet ready for Applied Music.

MUS 238 C  POPULAR PIANO
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
UC/CSU
Prerequisite: MUS 135 C or by audition. This course deals with the study of basic chords to allow keyboard freedom in improvising and song arranging with the use of melody and accompaniment to develop a creative style of playing, essential in popular music. It is designed for non-music majors as well as music majors.

MUS 260 C  CLASSICAL GUITAR ENSEMBLE
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
UC/CSU
Prerequisite: Audition. The Cypress Classical Guitar Ensemble is dedicated to the rehearsal and performance of standard and contemporary duets, trios, quartets, and large ensemble pieces for the classical guitar. The ensemble participates in a department recital each semester.
MUS 261 C  STRING ENSEMBLE
1 Unit (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
UC/CSU
Prerequisite: Audition. The Cypress String Ensemble is dedicated to the rehearsal and performance of standard and contemporary duets, trios, quartets, and large ensemble pieces for the violin, viola, cello and contrabass. The ensemble participates in a department recital each semester.

MUS 273 C  CONCERT BAND
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours in sectional rehearsals, recording, program production and/or concerts per week.
UC/CSU
Prerequisite: Audition. The student will be involved in the rehearsal and performance of standard wind and band literature. Performances required in the course of the semester may include concerts and tours.

MUS 274 C  CYPRESS SYMPHONIC WINDS
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours in sectional rehearsals, recording, program production and/or concerts per week.
UC/CSU, AA GE
Prerequisite: Audition. The Cypress Symphonic Wind Ensemble is dedicated to the rehearsal and performance of standard and contemporary literature for woodwinds, brass, and percussion. Performances required in the course of the semester may include concerts and tours.

MUS 276 C  JAZZ BAND
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours in sectional rehearsals, recording, program production and/or concerts per week.
UC/CSU
Prerequisite: Audition. This course studies the rehearsal and performance of jazz band literature. Sight reading is emphasized as a musical concept. The band performs in concert each semester, and student compositions and arrangements are encouraged.

MUS 279 C  MADRIGAL SINGERS
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours sectional rehearsals, recording, program production and/or concerts per week.
CSU
Prerequisite: Audition. The Madrigal Singers is a small ensemble of mixed voices that focuses on the rehearsal and performance of Renaissance madrigal literature. The ensemble performs two major concerts per semester, participates in regional music festivals and performs at a variety of locations throughout the Los Angeles basin. Open to students with previous choral performance experience by audition.

MUS 280 C  JAZZ/MUSICAL THEATER CHOIR
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours in sectional rehearsals, recording, program production and/or concerts per week.
UC/CSU, AA GE
Prerequisite: Audition. This course is a vocal ensemble for beginning to advanced singers that focuses on repertoire from jazz, musical theater and popular styles. The ensemble will perform in concerts and may also participate in music festivals appropriate to this type of vocal group. Open to both music majors and non-majors.

MUS 281 C  CONCERT CHOIR
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours in sectional rehearsals, recording, program production and/or concerts per week.
UC/CSU
Prerequisite: Audition. The Concert Choir performs an extensive repertoire ranging from Renaissance, Classical, and Baroque selections to contemporary Spirituals, Jazz, and Musical Theater. The choir presents four major concerts each season and participates in regional choral festivals. Open to all singers from the college and neighboring communities. Prospective singers should call for an audition appointment.

MUS 282 C  CYPRESS MASTERWORKS CHORALE
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours in sectional rehearsals, recording, program production and/or concerts per week.
UC/CSU, AA GE, CSU GE
Prerequisite: Audition. The Masterworks Chorale (80-110 singers) presents four major concerts each year with emphasis on masterworks for choir and orchestra. The Chorale participates in regional music festivals, performs at numerous locations throughout the Los Angeles basin, and tours internationally. Open to students and members of the community with prior singing experience.

MUS 283 C  CYPRESS SINGERS
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours in sectional rehearsals, recording, program production and/or concerts per week.
UC/CSU
Prerequisite: Audition. The Cypress Singers is a group of 18 sopranos and altos which rehearse and perform a variety of repertoire ranging from Renaissance madrigals to contemporary music. The Singers perform in concerts and festivals each year as scheduling permits. Open to both music majors and non-majors by audition.

MUS 285 C  CHAMBER SINGERS
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours in sectional rehearsals, recording, program production and/or concerts per week.
UC/CSU
Prerequisite: Audition. The Chamber Singers is a select group of 24 mixed voices performing a variety of classical repertoire ranging from Renaissance madrigals to contemporary literature. The ensemble performs four major concerts per year, participates in regional music festivals, and performs at numerous locations throughout the Los Angeles basin. Open to both students and members of the community with extensive singing experience.
Cypress College 2010-2011

Nursing Program

Registered

Division of Health Science

EFFECTIVE FOR STUDENTS ENTERING FALL, 1994, AND LATER.

Division Dean – John Sciacca
Director of Nursing – Darlene Fishman

Faculty
Shirley Ashburn
Penny Chin
Michael Faraci
Darlene Fishman
Sally Frumkin
Carol Harvey
Anna Herzog
Kathleen Kruse
Denise Markus
Sally McNay
Elizabeth Piburn
Elizabeth Putman
Judy Swytak
Wendy Valencia
Jane Walker
Janet Winckler

Counselors
Kelly Carter
Denise Vo

PROGRAM LEARNING OUTCOMES (PLOs)

Nursing

A student who completes the Nursing program will be able to:

• Manage effective communication with the patient/client, family, health care team, and community.

• Formulate and prioritize nursing diagnoses through assessment/observation of the patient/client's physical condition and behavior, and through interpretation/analysis of information obtained from the patient/client and others, including the health care team.

• Create a plan of care in collaboration with the patient/client which ensures that direct and indirect nursing care services are provided for the patient/client's safety, comfort, hygiene, and protection, and for disease prevention, health promotion, and restorative measures.

• Perform skills essential to implement safe and effective nursing care; explains health treatment, and teaches patient/client and family how to care for their health needs.

• Delegate tasks to subordinates based on the legal scope of their practice and on the preparation and capability needed or the tasks delegated; effectively supervise nursing care given by subordinates.

• Evaluate the expected outcomes of the plan of care through observation of the client's physical condition, behavior, signs and symptoms of illness, reactions to treatment, and through communication with the patient/client and the health care team members; modifies/progresses plan as needed.

MUS 287 C  VOCAL JAZZ ENSEMBLE
1 Unit (May be taken for credit 4 times)
Three hours rehearsal and
One and one-quarter hours laboratory per week.
UC/CSU
Prerequisite: Audition. This course focuses on the rehearsal and performance of traditional and contemporary vocal jazz repertoire accompanied by a small instrumental ensemble. Some emphasis will be placed upon vocal improvisation in the jazz style. The ensemble will perform in concerts and may also participate in jazz and choral music festivals. Student compositions and arrangements are encouraged.

MUS 291 C  MUSICAL THEATER TECHNIQUES
3 Units (May be taken for credit 4 times)
(Same as THEA 126 C)
Two hours lecture and
Four hours laboratory per week.
UC/CSU, AA GE, CSU GE
Students will investigate performance methods of musical theater as they relate to the onstage performer. All styles of musical theater may be covered and performance in a workshop setting of musical theater literature is required.

MUS 295 C  MUSIC INTERNSHIP
1-4 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry/Open Exit)
One hour lecture and
Three hours 20 minutes to Thirteen hours and 20 minutes laboratory per week.
Pass/No Pass/Letter grade Option
CSU
This course is designed to give the student credit for work experience at a related occupational worksite, while being concurrently enrolled in a vocational major. For each unit of credit, a minimum of 75 paid or 60 unpaid worksite internship hours is required. The internship allows students to apply knowledge gained in college courses to an actual work setting, sample career choices and improve job-readiness skills. Supplemental reading and course assignments required.

MUS 298 C  MUSIC SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to fifty-two hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. Various classes may be offered which are designed to meet the interests and needs of students. Fees may be required – PAYABLE AT REGISTRATION.

MUS 299 C  MUSIC INDEPENDENT STUDY
1 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
One to two hours lecture per week.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. This course is designed for students who wish to increase their knowledge and experience in performance or applied areas. Unit credit may range from 1 to 2 units in any given semester. Consult the class schedule to verify credit for a particular term.
• Advocate for the patient/client by initiating action to improve health care and to make informed decisions.
• Evaluate personal strengths and growth needs and incorporate these into a plan for professional development.
• Practice according to ethical and legal professional nursing standards.

Accredited by: (NLNAC) National League for Nursing Accrediting Commission 3343 Peachtree NE, Suite 500 Atlanta, GA 30326 (404) 975-5000 Fax (404) 975-5020

PHILOSOPHY OF NURSING EDUCATION
The philosophy of the Cypress College Associate in Science Degree Nursing Program recognizes the individual as a whole person who moves toward goals of self-realization and fulfillment. The individual is self-directed and is responsible for his/her own actions as well as the consequences of the actions. The faculty of the Department of Nursing supports this view of the individual in its approach to the teaching of nursing.

TEACHING/LEARNING
The nursing faculty believes that learning is a dynamic process which results in behavioral changes. Learning occurs throughout the life cycle and can aid in maximization of any individual’s potentials. The individual student’s potentials are developed through use of the nursing process, a professional proactive approach to problem-solving. The curriculum provides opportunities for facilitating learning based on individual styles of learning. Self-motivation and active participation in the classroom and clinical laboratory are necessary components of the learning process for adult learners.

The curriculum is organized from simple to complex concepts which are as identified in each course outline. Multiple methods of instruction are utilized to address the content being studied or to enhance learning, and to provide for individual differences in both teaching and learning styles. The structure and content of the courses is designed to support the department’s philosophy of nursing education. The student is recognized as an individual who moves toward goals of self-realization and fulfillment.

ROLE OF THE TEACHER AND STUDENT
The role of the teacher is to identify the learning needs of the student and to facilitate the student’s optimal level of learning achievement. A systematic approach is utilized to assist the student in assessment of learning needs, development of learning goals, selection and implementation of learning methods and strategies, and evaluation of outcomes. Differences in individual needs, learning styles, ethnicity and cultural background are essential considerations in effective teacher-student relationships.

CURRICULUM MODEL
The nursing curriculum model is based on a conceptual framework which focuses on the individual within his/her family and community. The individual exhibits needs at varying levels within the biopsychosocial/spiritual domains. The purpose of the model is to provide a framework to which the students can relate course content and nurse-patient interaction. The conceptual model encourages the use of varied theories to explain a person’s behavior in response to his/her environment. Abraham Maslow’s Hierarchy of Needs is emphasized to examine human needs and behavior as the person moves toward the ultimate goal of self-actualization. Learning experiences are planned to incorporate the health needs of individuals in all age and developmental groups at various placements on the health-illness continuum.

NURSING AND THE NURSING PROCESS
The function of nursing is to identify the needs of the client/family and to promote or support the client’s/family’s optimal level of adaptation on the health-illness continuum. The nurse’s role is to assess and diagnose the behavioral responses and intervene on behalf of the client to achieve maximal wellness. The nursing process, based on the application of principles derived from the biological and behavioral sciences, is used as a systematic approach in the planning, implementation, and evaluation of individualized nursing care for a client/family.

NURSING AND PERSONAL RESPONSIBILITY FOR HEALTH PROMOTION PRACTICES
The Cypress College nursing faculty recognizes the value of high-level wellness and supports the concept of the nurse being a positive role model for health practices. The entering student needs to be aware of his/her health-promoting behaviors in the area of general health (i.e., rest and sleep, nutrition, therapeutic recreation). The student should also be aware of and avoid behaviors detrimental to health.

SPECIAL REQUIREMENTS, EQUIPMENT AND EXPENSES INCURRED BY NURSING STUDENTS

UPON ENROLLMENT IN THE NURSING PROGRAM
This information is intended to assist those who are planning enrollment in the registered nursing program in preparing for educational expenses. In addition to enrollment fees PAYABLE AT REGISTRATION, the nursing student incurs additional expenses. The nursing student should anticipate an expenditure of approximately $3,500 over the two years of enrollment in nursing program courses.

Clinical practice sites are located throughout Orange and Los Angeles counties. Clinical rotations may be scheduled for both day and evening shifts in order to provide the best learning opportunities. The student will need reliable personal transportation in order to travel to assigned hospitals at least two days a week in each nursing course.

The nature of the learning experiences in the registered nursing program requires that students engage in direct patient care in assigned clinical facilities. All enrolled students are required to meet the same health and safety standards required of nurses in the contracted clinical facilities. For this reason each student enrolled in the nursing program must complete the following requirements at his/her own expense prior to the first day of attendance:

1. Physical examination with health clearance indicating good physical and mental health status with no limitations to providing direct patient care.
2. Proof of current immunizations or immunity by titer.
3. Testing for communicable diseases including, but not limited to, the following: Tuberculosis, rubella, rubeola, varicella, hepatitis.
4. Malpractice insurance.
5. Current CPR certification at the Professional Health Provider level.
6. Background checks.

In addition, the student will need to purchase required uniforms, watch with sweep second hand, name badge, stethoscope, protective goggles and other equipment required for clinical practice.

Information regarding the specific requirements in place at the time of initial enrollment into nursing clinical courses is provided at a mandatory orientation meeting scheduled for applicants selected each semester.

EXPENSES INCURRED BY NURSING STUDENTS

AT REGISTRATION, the nursing student incurs additional educational expenses. In addition to enrollment fees PAYABLE UPON ENROLLMENT IN THE NURSING PROGRAM
ASSOCIATE IN SCIENCE DEGREE PROGRAM
REGISTERED NURSING  Program Code: 1S03785
The program educates nursing students for patient/client services in a variety of health care settings. Clinical experience in hospitals and other health care agencies is correlated with classroom instruction. At the satisfactory completion of all courses and the specified general education requirements at Cypress College, the individual will receive an Associate in Science degree and will be eligible to write the Registered Nursing State Licensing Examination. (If you have been convicted of any offense other than a minor traffic violation, it may prevent your attending clinical rotations where criminal background checks are required. You will be required to declare offenses on your state application to write the licensing exam, which may affect your eligibility to become licensed.)

The nursing program is approved by California State Board of Registered Nursing and nationally accredited by the NCNAC. For the requirements to complete the Associate in Science Degree, see the Graduation Requirements for the Associate Degree section of this catalog.

MINIMUM STANDARDS FOR APPLICANTS
1. Eligibility for admission to Cypress College.
2. High school graduation, or passing of the General Education Development Test (GED), or the High School Proficiency Test, or a graduate of an accredited college.
3. Good physical and mental health as determined by a medical examination upon admission to the program. In compliance with the State Board of Registered Nursing Guidelines, no student with impaired health status (which includes use of legal or illegal drugs, alcohol, or other chemicals) shall be admitted or allowed to remain enrolled in the Nursing Program. Students applying to the Nursing Program with a history of substance abuse, physical impairment, or mental/emotional impairment shall be required to provide proof of active participation in a recognized treatment program at the time of application. Evidence of continuing rehabilitation may be required if admitted or re-admitted to the Nursing Program. These standards are necessary for the Cypress College Registered Nursing Program to be in compliance with the Board of Registered Nursing Guidelines and maintain full accreditation.
4. Total college grade point average (GPA) of 2.0 ("C") or better.
5. Completion of ENGL 100 C with "C" or better as determined by a counselor from transcript.
6. Completion of Biology 231 C (General Anatomy), Biology 241 C (Human Physiology), (CHEM 101 C strongly recommended), and Biology 220 C (Medical Microbiology) with "C" or better. All must have been completed within five years of application.

APPLICATION PROCEDURES
September, First Ten (10) Working Days*
Application must be completed in person at the Health Science Application Office, Health Science Building (TE III).

Transcript Deadline is October 15
All official transcripts (except Cypress and Fullerton Colleges, which may be unofficial) must be submitted to the Health Science Application Office.
The Nursing Program admits students twice each year, fall and spring. Applicants will be notified of status in writing.

All applicants who wish to remain on the applicant list must file an updated application every year during the application period in September. Applicants again will be notified of updated status in writing.

Notify the Health Science Application Office in Writing:
1) if you change your name, address or telephone number
2) if you wish to withdraw your name as an applicant

Please Note: F-1 visa students will not be accepted for admission into any program when applications by qualified U.S. citizens exceed space available.

* Contact Health Science Application Office for the specific final days of application, hours and last day to submit transcripts because of holidays or weekends, 714-484-7270.

REGISTERED NURSING
CURRICULUM  Program Code: 1S03785
Nursing courses must be taken in specific sequence. For further information, see a Health Science Counselor. The student must attain a minimum grade of "C" in each required course to continue in the program.

All students will have to meet the pre-requisites of English 100, Anatomy, Physiology, and Microbiology. The nursing program also requires completion of General Psychology, Introduction to Sociology, and Human Communication.

Per SB 139, section 66055.8 of the Education Code, California Community Colleges that operate a registered nursing program shall waive the general education requirements for the associate of science degree, in Nursing, for any student who has been admitted to the program and who has already earned a baccalaureate or higher degree. Cypress College will only accept degrees granted from a regionally accredited institution of higher education.

Required Courses are listed in required sequence:
Course # Title Units
###PREREQUISITES
#Biol231 C General Human Anatomy 4
#Biol241 C General Human Physiology 4
#Biol220 C Medical Microbiology 4
*Engl100 C College Writing 3

15

SEMESTER I
Nurs191 C Pharmacology in Nursing I 1
**Psyc101 C General Psychology 3
Nurs192 C Fundamentals of Nursing 4½
Nurs193 C Intro to Med-Surg/Gero Nursing 3½

12

SEMESTER II
Nurs195 C Pharmacology in Nursing II 1
#Soc101c Introduction to Sociology 3
Nurs196 C Med-Surg Nursing I 5
Nurs197 C Material/Newborn Nursing 3½

13½

SUMMER SESSION
*Art/Humanities (Category C1) Requirement 3

SEMESTER III
#Comm100 C Human Communication 3
Nurs291 C Pharmacology in Nursing III 1
Nurs292 C Med-Surg Nursing II 5
Nurs293 C Mental Health Nursing 3½
Nurs294 C Geriatric Nursing 3

15½
### SEQUENTIAL CURRICULUM / NURSING prophecy

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>****##MATH 040 C</td>
<td>Intermediate Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>NURS 296 C</td>
<td>Child/Family Nursing</td>
<td>3½</td>
</tr>
<tr>
<td>NURS 297 C</td>
<td>Med-Surg Nursing III</td>
<td>5</td>
</tr>
<tr>
<td>*Art/Humanities (Category C2)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

A score of 3 or higher on the Advanced Placement (AP) Psychology exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

A score of 3 or higher on the Advanced Placement (AP) English Lang. and Comp. or English Lit. and Comp. exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

A score of 3 or higher on the Advanced Placement (AP) Math (Calculus AB) or Math (Calculus BC) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

# May be taken prior to program for selection purposes, but must be completed at least by semester indicated.

## Proficiency Examination available—see Health Science Counselor.

### Must be taken within five years of application.

All nursing courses are challengeable. See Nursing Program Director.

Graduation requirements: Cultural Diversity (beginning Fall 2000 catalog, the nursing program meets the requirement) and Reading Proficiency. See Counselor/Catalog.

### TRANSFER OF CREDIT

Transfer credit for nursing courses taken from another accredited institution may be granted provided the applicant meets the Cypress College Department of Nursing entrance requirements and space is available in the program. Contact the Health Science Application Office for written policy and procedure.

Credit will be granted on an individual basis after evaluation by the Department of Nursing. Transfer credit for equivalent general education courses required by the Department of Nursing will be granted if the course has been completed at an accredited college.

Any required course in the biological or social sciences listed below, completed over five years previous to the time the student applied to the program, must be repeated or the student may receive credit by challenge examination, or be evaluated on a individual basis.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 231 C</td>
<td>General Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 241 C</td>
<td>General Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>##BIOL 220 C</td>
<td>Medical Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>*ENGL 100 C</td>
<td>College Writing</td>
<td>3</td>
</tr>
<tr>
<td>**PSY 101 C</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 090 C</td>
<td>Nursing Transitions</td>
<td>3½</td>
</tr>
</tbody>
</table>

This course, available in the summer only, includes a clinical rotation. It is required for career mobility students seeking advancement into the Registered Nursing Program. Applicants will be assigned a placement number on the qualified mobility placement list upon successful completion of this course with a grade of "C" or better.

# Must be taken within ten years of application.

### CAREER MOBILITY: LICENSED VOCATIONAL NURSE TO REGISTERED NURSE

Program Code: 1S00003

### LICENSED PSYCHIATRIC TECHNICIAN TO REGISTERED NURSE

Program Code: 1S00004

The nursing program provides an opportunity for Licensed Vocational Nurses and Licensed Psychiatric Technicians to complete the Registered Nursing curriculum. The individual completing the registered nursing program and general education requirements is eligible to take the Registered Nursing State Licensing Examination. As a graduate of the Cypress College Registered Nursing Program, the student will receive an Associate in Science degree.

### MINIMUM STANDARDS FOR APPLICANTS

1. Eligibility for admission to Cypress College.

2. High school graduation or passing of the General Education Development (GED) test or the High School Proficiency Test or a graduate of an accredited college.

3. Good physical and mental health as determined by a medical examination upon admission to the program. In compliance with the State Board of Registered Nursing Guidelines, no student with impaired health status (which includes use of legal or illegal drugs, alcohol, or other chemicals) shall be admitted or allowed to remain enrolled in the Nursing Program. Students applying to the Nursing Program with a history of substance abuse, physical impairment, or mental/emotional impairment shall be required to provide proof of active participation in a recognized treatment program at the time of application. Evidence of continuing rehabilitation may be required if admitted or re-admitted to the Nursing Program. These standards are necessary for the Cypress College Registered Nursing Program to be in compliance with the Board of Registered Nursing Guidelines, and maintain full accreditation.

4. Verification of completion of a program or its equivalent preparing for a Licensed Vocational Nurse or Psychiatric Technician.

5. Successful completion of the Career Mobility Proficiency Exams. (See Health Science Counselor for specific information on testing criteria and procedures.)

6. Successful completion of the Career Mobility Clinical Skills Validation Performance Exam. (See Health Science Counselor for specific information on testing criteria and procedures.)

7. Total college grade point average (GPA) of 2.0 ("C") or better.

### PREREQUISITES

Completion of the following courses with a grade of "C" or better:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>##BIOL 231 C</td>
<td>General Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>##BIOL 241 C</td>
<td>General Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>##BIOL 220 C</td>
<td>Medical Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>*ENGL 100 C</td>
<td>College Writing</td>
<td>3</td>
</tr>
<tr>
<td>+**PSY 101 C</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 090 C</td>
<td>Nursing Transitions</td>
<td>3½</td>
</tr>
</tbody>
</table>

# This course, available in the summer only, includes a clinical rotation. It is required for career mobility students seeking advancement into the Registered Nursing Program. Applicants will be assigned a placement number on the qualified mobility placement list upon successful completion of this course with a grade of "C" or better.

# Must be taken within ten years of application.

* May be in progress at the time of application, but must be completed prior to acceptance in the Nursing Program.

* A score of 3 or higher on the Advanced Placement (AP) English Lang. and Comp. or English Lit. and Comp. exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Psychology exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

### APPLICATION DEADLINES

FALL OR SPRING CLASSES

Applications are accepted after successful completion of career mobility proficiency and skills validation testing. A counseling appointment is mandatory to review program and application procedure.
### APPLICATION REQUIREMENTS
1. Must have completed all prerequisites.
2. Possess a current California LVN or PT license.
3. Must have completed application procedures, and have placement on the applicant list.
4. Satisfactory completion of NURS 090 C, with a grade of “C” or better.
5. File application for Mobility Placement following satisfactory completion of NURS 090 C.

### CAREER MOBILITY: LVN/PT TO REGISTERED NURSING CURRICULUM
General Education requirements – the following courses must be completed prior to expected date of graduation with a grade of “C” or better.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 101 C</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>COMM 100 C</td>
<td>Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>MATH 040 C</td>
<td>Intermediate Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Art/Humanities Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Category C1 Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Category C2 Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Education Requirement</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

NOTE: All Cypress College graduates must meet the following two requirements: Cultural Diversity (beginning with the Fall 2000 catalog, the nursing program meets the requirement) and Reading Proficiency. See counselor/catalog.

### CAREER MOBILITY: LICENSED VOCATIONAL NURSE TO NON-DEGREE REGISTERED NURSE
A Licensed Vocational Nurse may apply for admission to the Registered Nursing Program to meet the requirements for licensure of the State Board of Registered Nursing in California. Thirty-Unit Option applicants shall have equal access to open space in the required nursing courses.

### MINIMUM STANDARDS FOR APPLICANTS
1. Applicants must meet Cypress College entrance requirements.
2. Verification of completion of a program or its equivalent, preparing for a Licensed Vocational Nurse.
3. Satisfactory completion of BIOL 210 C, with Lab, 5 Units (or equivalent) with a grade of “C” or better.
4. Satisfactory completion of (or concurrent enrollment in) BIOL 220 C, (or equivalent) with a grade of “C” or better.

### APPLICATION DEADLINES
Applications are accepted after successful completion of career mobility proficiency and skills validation. A counseling appointment is mandatory to review program and application procedures.

### SELECTION PROCEDURE
Applications normally exceed capacity. Applicants should obtain specific information and counseling information sheets from the Health Science Counseling Office. It is the applicant’s responsibility to verify that documents, transcripts and records are on file.

### 30-UNIT NON-DEGREE OPTION CAREER MOBILITY: LICENSED VOCATIONAL NURSE TO NON-DEGREE REGISTERED NURSE
A Licensed Vocational Nurse may apply for admission to the Nursing Program to meet the requirements for licensure of the State Board of Registered Nursing in California. Thirty-Unit Option applicants shall have equal access to open space in the required nursing courses.

### CURRICULUM
Courses MUST be taken in this specified sequence:
Natural Science Requirement – 9 Units

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 210 C</td>
<td>Anatomy and Physiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 220 C</td>
<td>Medical Microbiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Nursing Requirement – 20 Units

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 090 C</td>
<td>Nursing Transitions</td>
<td>3½</td>
</tr>
<tr>
<td>NURS 292 C</td>
<td>Med-Surg Nursing II</td>
<td>5</td>
</tr>
<tr>
<td>NURS 293 C</td>
<td>Mental Health Nursing</td>
<td>3½</td>
</tr>
<tr>
<td>NURS 294 C</td>
<td>Geriatric Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 297 C</td>
<td>Med-Surg Nursing III</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td><strong>29</strong></td>
<td></td>
</tr>
</tbody>
</table>

### ASSOCIATE IN SCIENCE DEGREE FOR REGISTERED NURSES FROM A DIPLOMA SCHOOL OF NURSING
This program is designed to enable a Registered Nurse from a diploma school of nursing to earn an Associate in Science Degree. Diploma Nursing School graduates with a current California license will receive 40 units of credit towards an Associate in Science Degree upon completion of general education and residency requirements at Cypress College. For the requirements to complete the Associate in Science Degree, see the Graduation Requirements for the Associate Degree section of this catalog. A petition is required for students requesting a waiver if 50 percent of their coursework in the major was not completed at Cypress College. See your Health Science Counselor.
Nursing Four Year

TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Nursing (NURS)

NURS 090 C NURSING TRANSITIONS
3½ Units
Two hours lecture and
Four and one-half hours laboratory per week.
Prerequisite: Licensed Vocational Nurse (LVN), or Licensed Psychiatric Technician (LPT) and successful completion of career mobility proficiency exams and skills validation test. This course is designated for the LVN/LPT who is preparing to enter the Registered Nursing career ladder program. The course will enhance theoretical and technical nursing skills in areas such as communication, asepsis, fluid and electrolytes, and pharmacology. Students will develop in-depth skill in utilization of the nursing process. Major emphasis is placed on assessment of patient's biopsychosocial needs. The course emphasizes specific knowledge and skills not included in LVN/PT curricula. $19.00 Materials Fee – PAYABLE AT REGISTRATION.

NURS 091 C STRATEGIES FOR SUCCESS IN NURSING
½ Unit
One-half hour lecture per week.
Pass/No Pass/Letter Grade Option
NON-DEGREE CREDIT
This course is designed as a preparatory seminar for nursing students. The course will begin to develop the skills needed to succeed in a health care curriculum where students must be able to assimilate knowledge and apply it in a clinical practice setting. The course will provide students with behavioral and problem solving tools to develop personal and professional strategies for success in the health care field.

NURS 095 C REGISTERED NURSING WORK EXPERIENCE
1 - 4 Units (Variable Unit Class) (May be taken for credit 4 times)
One hour lecture and
Five hours (minimum) employment per week in an approved acute health care agency.
Prerequisite: Successful completion of NURS 193 C and concurrent enrollment in the Registered Nursing Program. This course focuses upon exploring work related issues in an acute medical-surgical hospital setting. The course will provide work experience enabling students to apply previously learned theory and clinical skills in which the student has demonstrated competence. As required by Board of Registered Nursing regulations, no new skills will be taught.

NURS 099 C NURSING INDEPENDENT STUDY
¼ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Hours will vary according to units given.
Pass/No Pass/Letter Grade Option
Prerequisite: Approved Independent Study Learning Contract.
This course is designed for capable students enrolled in the Registered Nursing program or options of the program who wish to increase their knowledge and experience in applied areas. Students will participate in independent study on assigned areas under staff supervision.

NURS 101 C CRITICAL THINKING IN NURSING
¼ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
One-half to two hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: Acceptance in the Nursing Program or Registered Nurse. The focus of this course is one of assisting students in the development of critical thinking skills and the application of those skills to the nursing process. The role of analysis, synthesis and theory in the nursing process will be addressed. Case studies and nursing situations will be presented and the student will be guided through analysis of data in order to develop appropriate nursing diagnoses, patient goals/outcomes and nursing interventions. This course is elective for students who desire additional assistance in developing nursing process skills. Computer simulations and computer testing will be used within this course. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

NURS 103 C BASIC HEALTH ASSESSMENT
¼ Unit
One-half hour lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: NURS 192 C; Licensed Psychiatric Technician; Licensed Vocational Nurse; Registered Nurse. This elective course provides specialized nursing knowledge in assessing basic health status in the non-pregnant adult. Nursing process is the framework that includes techniques for both history and physical assessment. Nursing implications of selected common health problems are emphasized.

NURS 104 C INTRODUCTION TO ECG INTERPRETATION
¼ Unit
One-half hour lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: NURS 191 C, NURS 193 C; Licensed Vocational Nurse; Registered Nurse or permission of instructor. This elective course provides specialized nursing knowledge in assessing and caring for patients experiencing selected common cardiac dysrhythmias. These include sinus, atrial, AV heart blocks, junctional, and ventricular dysrhythmias. Initial patient monitoring, lead placement, techniques and equipment utilized to measure and identify cardiac arrhythmias are addressed in introductory terms. Basic therapies based on current ACLS standards and nursing implications for these dysrhythmias are discussed.
NURS 105 C  BASIC CARDIOPULMONARY NURSING
½ Unit
One-half hour lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: NURS 292 C; Registered Nurse; or permission of instructor. This elective course provides specialized nursing knowledge in common cardiopulmonary health problems and their nursing implications. Nursing process serves as the framework for this exploration. Duplicate credit not granted for NURS 105HC.

NURS 105HC  HONORS CARDIOPULMONARY NURSING
½ Unit
One-half hour lecture per week.
CSU
Prerequisite: NURS 292 C, Registered Nurse; or permission of instructor. This elective course is enhanced for honors students. Students shall develop increased knowledge of cardio-pulmonary health problems as they analyze expanded concepts of the nursing process and health care delivery. Duplicate credit not granted for NURS 105 C.

NURS 107 C  PAIN MANAGEMENT FOR NURSES
1 Unit
One hour lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: NURS 192 C or licensed health care professional. Corequisite: Concurrent enrollment in, or successful completion of NURS 191 C or licensed health care professional. This course introduces the student to pain assessment and management strategies for use in daily clinical practice, based on the California Board of Registered Nursing’s Pain Management Policy. Physiologic, psychologic, sociologic, and cultural aspects of pain are examined within the context of the nursing process. The student will learn to effectively prevent and control patient pain and improve patient outcomes by pharmacologic and non-pharmacologic means. Ethical issues and barriers to effective pain management are considered.

NURS 108 C  ORTHOPAEDIC PATIENT CARE
½ Unit
One-half hour of lecture per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: Successful completion of NURS 192 C or licensure as an RN, LVN, RPT, LPT. This course is an overview of the general concepts of orthopaedic nursing including assessment, orthopaedic injuries, patient complications, and orthopaedic patient care. Designed to give the participant an introduction to the specialty of orthopaedic nursing, this course includes study of the care of patients experiencing orthopaedic trauma, traction or cast treatment, total joint arthroplasty, spinal surgery, amputation, as well as orthopaedic complications. The content of the course is based on orthopaedic nursing practice standards and patient teaching implications as developed by the National Association of Orthopaedic Nurses.

NURS 109 C  RN PRACTICUM & CAREER DEV.
1 - 4 Units (Variable Unit Class) (May be taken for credit 4 times)
One half hour lecture and one and one-half hours laboratory to Ten and one-half hours laboratory per week.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: Successful completion of NURS 193 C. Corequisite: Concurrent enrollment in Registered Nursing Program. This course focuses upon exploring work related issues in an acute hospital setting. The course will provide opportunities enabling students to apply previously learned theory and clinical skills in which the student has demonstrated competence. The course may provide exposure to additional areas of care with the agreement of the facility and instructor and previous enrollment in nursing practice. Requires a minimum eight hours employment per week in an approved acute care agency. As required by the Board of Registered Nursing regulations, no new skills will be taught.

NURS 190 C  INTRODUCTION NURSING CONCEPTS
2 Units
Two hours lecture per week.
CSU
This course introduces the health science student to the theoretical basis of nursing and health care, including psychosocial concepts inherent to development of skills needed for patient care and the nurse-patient relationship. Professional nursing roles and interaction skills are applied to the health care setting. The effects of developmental patterns on individual health care needs are introduced. Major social and cultural issues in relation to health care are discussed. Teaching/learning strategies unique to health care, nursing, and clinical instruction are explored. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

NURS 191 C  PHARMACOLOGY IN NURSING I
1 Unit
One hour lecture per week.
CSU
Prerequisite: Acceptance in the Nursing Program, LVN or PT. Corequisite: NURS 192 C and NURS 193 C. This course introduces the principles of medication administration, laws governing drugs, and the role of the nurse in administering medications in the health care setting. Drug action, preparations, and basic pharmacologic terminology are included. Criteria for monitoring drug interactions, with emphasis on the older adult, is presented. The general effects of pharmacological agents on the autonomic and central nervous systems are introduced. The therapeutic effects, interactions, adverse effects, and the identification of nursing responsibilities in administering anti-inflammatory drugs are emphasized. Mathematical concepts related to metric, apothecary, and household systems of measurement, and temperature and systems conversions are taught. Ratio and proportion and evaluation of intake and output measurements are introduced.
NURS 192 C  FUNDAMENTALS OF NURSING  
4½ Units  
Two and one-half lecture hours and  
Six laboratory hours per week.  
CSU  
Prerequisite: Acceptance in the Nursing Program. This course is  
an introduction to the nursing process, applying Maslow's hierarchy  
to nursing technology and the scientific mind. The course is  
designed to provide the student with fundamental provider of care  
roles and critical thinking skills in order to develop and deliver a  
basic plan of care. The nursing management portion of the course  
is designed to socialize the beginning nursing student to the profes-  
sional role of nursing. Models of health care delivery systems  
and organizations will be explored. Nursing issues regarding  
patient rights, ethical and legal standards, and the use of profes-  
sional communication will be applied to nursing theory and prac-  
tice. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

NURS 193 C  INTRODUCTION TO MED-SURG/  
GERO NURSING  
3½ Units  
One and one-half lecture hours and  
Six laboratory hours per week.  
CSU  
Prerequisite: NURS 192 C. Corequisite: NURS 191 C. This course  
provides specialized knowledge to plan and deliver nursing care,  
based on the nursing process, to the older adult. Included in the  
healthy aging concept is a compilation of age-associated issues  
and preventive health considerations for the senior. This course  
is designed to socialize the beginning nursing student to the profes-  
sional role of nursing as it relates to the care of the older adult.  
Models of health care delivery systems and organizations for the  
senior will be explored. Nursing issues regarding patient rights,  
ethical and legal standards, and the use of professional therapeu-  
tic communication will be applied to nursing theory and practice.

NURS 195 C  PHARMACOLOGY IN NURSING II  
1 Unit  
One hour lecture per week.  
CSU  
Prerequisite: Acceptance in the Nursing Program, LVN, PT or  
completion of NURS 191 C and NURS 193 C. This pharmacology  
course correlates with the content in NURS 196 C and NURS 197  
C. Theoretical concepts for the assessment of patient responses  
to medication and the safe administration of medications in health  
care settings will be emphasized. By the end of this course, stu-  
dents will demonstrate competency on a written exam in advanced  
calculations using ratio and proportion methods to calculate dos-  
ages for parenteral medications and IV flow rates for mainlines  
and piggyback medications. The therapeutic effects, interactions,  
and adverse effects, and the identification of nursing implications  
of drug administration will be presented for selected drug categories  
(cardiac, allergy medications, antibiotics, gastrointestinal/antacids,  
coagulation/vascular medications, vitamins, estrogens, perinatal  
and renal medications, anticonvulsants, anesthetics and insulin  
and hypoglycemics).

NURS 196 C  MED-SURG NURSING I  
5 Units  
Two and one-quarter hours lecture and  
Eight and one-quarter hours laboratory per week.  
CSU  
Prerequisite: NURS 191 C, and NURS 193 C. Corequisite: NURS  
195 C This course prepares the student to apply the nursing pro-  
cess to develop nursing care strategies in the care of medical-  
surgical patients. There will be an emphasis on nursing interven-  
tions that require psychosocial assessment and therapeutic  
interaction. The course introduces the student to the basic  
categories of patient teaching and the role of research application.  
The professional nursing management portion of the course is  
designed to build on previous knowledge and skills. Emphasis will  
be on enhancing styles of effective communication, psychosocial  
assessment and intervention, and patient teaching skills. The stu-  
dent will learn to apply Maslow's theory in prioritizing patient needs  
in multiple patient situations. The student will have the opportunity  
to learn and practice accountability and responsibility for profes-  
sional actions as a member of the health care team.

NURS 197 C  MATERNAL/NEWBORN NURSING  
3½ Units  
One and three-quarter hours lecture and  
Five and one-quarter hours laboratory per week.  
CSU  
Prerequisite: NURS 196 C. Corequisite: NURS 195 C. This course  
prepares the student to apply previously learned concepts of the  
nursing process to the specialized population of the pregnant  
woman, newborn, and family. The professional management and  
leadership of this course will focus on the understanding of legal  
responsibilities, styles of leadership, and beginning research utili-  
Zation. Emphasis will be placed on collegial communications  
which will enhance the student's understanding of the need for  
accountability and responsibility as a professional member of the  
health care team. Based on previous learning, the student will be  
expected to identify and prioritize patient needs for a group of  
assigned patients.

NURS 209 C  ADV RN PRACTICUM &  
CAREER DEV  
1 - 4 Units (Variable Unit Class) (May be taken for  
credit 4 times)  
One-half hour lecture and  
One-half to ten and one-half hours laboratory per week.  
Pass/No Pass/Letter Grade Option  
CSU  
Prerequisite: Successful completion of NURS 292 C. Corequisite:  
Concurrent enrollment in the Registered Nursing Program or per-  
mission of the Director of Nursing. This course focuses upon  
exploring work related issues in an acute hospital setting. The  
course will provide opportunities enabling students to apply previ-  
ously learned theory and clinical skills in which the student has  
demonstrated competence. The course may provide exposure to  
acute areas of complex care with the agreement of the facility and  
instructor and previous enrollment in nursing practicum. Requires a  
minimum eight hours employment per week in an approved acute  
care agency. As required by the Board of Registered Nursing regu-  
lations, no new skills will be taught.
NURS 291 C  PHARMACOLOGY IN NURSING III
1 Unit
One hour lecture per week.
CSU
Prerequisite: Acceptance in the Nursing Program, LVN, PT or completion of NURS 195 C, NURS 197 C. Corequisite: NURS 292 C. This course correlates with the content in NURS 292 C, NURS 293 C, and NURS 294 C. Theoretical concepts for the safe assessment and administration of medications in the health care setting are emphasized. The role of the nurse in evaluating patient response to drugs will be emphasized. The therapeutic effects, interactions, adverse effects, and the identification of nursing implications of drug administration will be presented for selected drug categories (endocrine/hormonal, antineoplastic/antimetabolites, anticonvulsants, antipsychotic, antidepressants, antiparkinsonian, and anticholinergics). Assessment and evaluation of the nutritional and fluid and electrolyte needs of the adult and geriatric patient will be presented. Replacement therapies, and IV calculations will be emphasized.

NURS 292 C  MEDICAL-SURGICAL NURSING II
5 Units
Two and one-quarter hours lecture and
Eight and one-quarter hours laboratory per week.
CSU
Prerequisite: NURS 185 C and NURS 197 C, and acceptance in the Nursing Program. Corequisite: NURS 291 C. This course prepares the student to apply the nursing process to individuals with more complex nursing care, developmental, and sociological needs. Prioritizing nursing care for multiple patients will be emphasized. Health education needs of patients and barriers to learning will be explored. Students will learn to recognize the need for current application of research utilization to improve nursing care. The professional role of the nurse in assisting clients to locate and utilize appropriate community resources will be emphasized. Managerial skills will be fostered in the area of team management, quality assessment, and change agent strategies. Personal professional development issues will cover continuing education, value systems, self-analysis, and health care team collaborations.

NURS 293 C  MENTAL HEALTH NURSING
3½ Units
One and three-quarter hours lecture and
Five and one-quarter hours laboratory per week.
CSU
Prerequisite: NURS 291 C and NURS 292 C. This course presents historical, cultural, and contemporary research concepts as related to the mental health-illness continuum. Through use of the nursing process and communication, individual emotional needs are assessed and nursing interventions are theoretically designed to promote more effective resolution of these needs. Emphasis is placed on interpersonal process through self-awareness, use of self as a therapeutic agent, and use of community resources. The professional role of the nurse is expanded in the areas of ethical, legal, and patient advocacy issues of the mentally ill.

NURS 294 C  GERIATRIC NURSING
3 Units
One and one-half hour lecture and
Four and one-half hours laboratory per week.
CSU
Prerequisite: NURS 292 C. Corequisite: NURS 291 C and NURS 293 C. This course builds on previous medical-surgical knowledge and skills in applying the nursing process in the older adult with complex multiple system problems. Emphasis will be on lifestyle and physical changes, the process of initiating health referrals, and the outcome criteria for evaluating the client's response to teaching and learning. The student will also explore interventions to increase the client's capacity in relation to activities of daily living. This course emphasizes the professional role of the nurse in assisting clients to locate and utilize appropriate community resources. Managerial skills will be fostered in the area of team management, quality assessment, and change agent strategies. Personal professional developmental issues will cover continuing education, value systems, self-analysis, and health care team collaboration.

NURS 295 C  PHARMACOLOGY IN NURSING IV
½ Unit
One-half hour lecture per week.
CSU
Prerequisite: Acceptance in the Nursing Program, LVN, PT or completion of NURS 291 C, NURS 292 C, NURS 293 C and NURS 294 C. Corequisite: NURS 296 C. This course correlates with the content in NURS 294 C and NURS 297 C. Theoretical concepts for the safe assessment and administration of medications in the health care setting are emphasized. The role of the nurse in evaluating patient response to drugs will be emphasized. The therapeutic effects, interactions, adverse effects, and the identification of nursing implications of drug administration in pediatric and acute medical-surgical conditions will be presented. Dosage calculations for pediatric clients, physiological differences in the adult versus pediatric clients, and fluid resuscitations for burn clients will be presented.

NURS 296 C  CHILD/FAMILY NURSING
3½ Units
One and three-quarter hours lecture and
Five and one-quarter hours laboratory per week.
CSU
Prerequisite: NURS 291 C, NURS 292 C, NURS 293 C and NURS 294 C. Corequisite: NURS 295 C. This course assists the student in applying previously learned nursing concepts and skills to the pediatric patient. The student will apply growth and development concepts to the care of multiple patients, utilizing appropriate teaching strategies for children and families in preparation for home care. Accountability, outcome evaluation, professional development, health care team dynamics, ethical issues, and professional trends will be examined. Participation in facility in-service projects and use of current literature is expected.
Office Administration

Division of Business and Computer Information Systems

Division Dean – Dave Wassenaar

Faculty
Behzad Izadi
Ali Reza Moady
Patricia Pelachik
Donna Woo
Penn Wu

Counselors
Robert Grantham

ASSOCIATE IN SCIENCE DEGREE
ADMINISTRATIVE ASSISTANT

Program Code: 1S07816

This curriculum is designed to prepare students for employment in a business office as an administrative assistant or administrative secretary. Upon completion, the student will have completed a variety of training in the creation of business documents, using the Internet, the daily procedures of an office, and the current computer software being used in today’s office.

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.

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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 102 C</td>
<td>Document Formatting – MS Word</td>
<td>3</td>
</tr>
<tr>
<td>CIS 103 C</td>
<td>Microsoft Excel and PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>or CIS 113 C</td>
<td>MS Access and Expression Web</td>
<td>(3)</td>
</tr>
<tr>
<td>CIS 150 C</td>
<td>Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 250 C</td>
<td>Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>CIS 115 C</td>
<td>Desktop Publishing - Publisher</td>
<td>2</td>
</tr>
<tr>
<td>CIS 251 C</td>
<td>Advanced Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>MGT 055 C</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>OFF 048 C</td>
<td>Records Administration</td>
<td>1</td>
</tr>
<tr>
<td>CIS 114 C</td>
<td>MS Outlook/Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CIS 108 C</td>
<td>Introduction to Internet</td>
<td>2</td>
</tr>
<tr>
<td>CIS 160 C</td>
<td>Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS 116 C</td>
<td>Microsoft Outlook and PDA</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

ASSOCIATE IN SCIENCE DEGREE
ADMINISTRATIVE SUPPORT

Program Code: 1S03765

This curriculum is designed to prepare students with skills in computer software and office administration for employment as an administration support employee to a manager or supervisor in a general office setting.

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.
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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 102 C</td>
<td>Document Formatting – MS Word</td>
<td>3</td>
</tr>
<tr>
<td>CIS 103 C</td>
<td>Microsoft Excel and PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CIS 113 C</td>
<td>MS Access and Expression Web</td>
</tr>
<tr>
<td>CIS 150 C</td>
<td>Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 250 C</td>
<td>Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>MGT 111 C</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MGT 211 C</td>
<td>Writing for Business</td>
<td>(3)</td>
</tr>
<tr>
<td>ACCT 099 C</td>
<td>Bookkeeping Principles &amp; Prac.</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
<td>(4)</td>
</tr>
<tr>
<td>CIS 114 C</td>
<td>MS Outlook/Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CIS 108 C</td>
<td>Introduction to Internet</td>
<td>2</td>
</tr>
<tr>
<td>CIS 160 C</td>
<td>Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS 155 C</td>
<td>Microsoft Expressions Web Apps</td>
<td>3</td>
</tr>
<tr>
<td>CIS 075 C</td>
<td>Business Skills Development (MS Excel)</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>CIS 132 C</td>
<td>Spreadsheet – Excel for Windows</td>
</tr>
<tr>
<td>CIS 075 C</td>
<td>Business Skills Development (MS Access)</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>CIS 142 C</td>
<td>Database – Access for Windows</td>
</tr>
<tr>
<td>MGT 088 C</td>
<td>Managing Personnel</td>
<td>½</td>
</tr>
</tbody>
</table>

**Total Units Required**: 30½ - 35½

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**ADMINISTRATIVE SUPPORT CERTIFICATE**

Program Code: 1C21101

This curriculum is designed to prepare students with skills in computer software and office administration for employment as an administration support employee to a manager or supervisor in a general office setting.

To earn a certificate, students must complete the required courses as 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 102 C</td>
<td>Document Formatting – MS Word</td>
<td>3</td>
</tr>
<tr>
<td>CIS 103 C</td>
<td>Microsoft Excel and PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CIS 113 C</td>
<td>MS Access and Expression Web</td>
</tr>
<tr>
<td>CIS 150 C</td>
<td>Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 250 C</td>
<td>Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>MGT 111 C</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MGT 211 C</td>
<td>Writing for Business</td>
</tr>
<tr>
<td>ACCT 099 C</td>
<td>Bookkeeping Principles &amp; Prac.</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ACCT 101 C</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>CIS 114 C</td>
<td>MS Outlook/Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CIS 108 C</td>
<td>Introduction to Internet</td>
<td>2</td>
</tr>
<tr>
<td>CIS 160 C</td>
<td>Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS 155 C</td>
<td>Microsoft Expressions Web Apps</td>
<td>3</td>
</tr>
<tr>
<td>CIS 075 C</td>
<td>Business Skills Development (MS Excel)</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>CIS 132 C</td>
<td>Spreadsheet – Excel for Windows</td>
</tr>
<tr>
<td>CIS 075 C</td>
<td>Business Skills Development (MS Access)</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>CIS 142 C</td>
<td>Database – Access for Windows</td>
</tr>
<tr>
<td>MGT 088 C</td>
<td>Managing Personnel</td>
<td>½</td>
</tr>
</tbody>
</table>

**Total Units Required**: 30½ - 35½

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**ASSOCIATE IN SCIENCE DEGREE LEGAL SECRETARY/ADMINISTRATIVE ASSISTANT**

Program Code: 1S07817

This program is designed to prepare a student for employment as a clerk or secretary/administrative assistant in a court system, in a law office, or in a legal office in business or industry.

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.

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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 055 C</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 067 C</td>
<td>Basic Vocabulary Development</td>
<td>2</td>
</tr>
<tr>
<td>CTRP 071 C</td>
<td>Legal Terminology and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>MGT 041 C</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MGT 240 C</td>
<td>Legal Environment of Business</td>
</tr>
<tr>
<td>CIS 250 C</td>
<td>Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>CIS 150 C</td>
<td>Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 072 C</td>
<td>Legal Procedures</td>
<td>4</td>
</tr>
<tr>
<td>OFF 048 C</td>
<td>Records Administration</td>
<td>1</td>
</tr>
<tr>
<td>MGT 143 C</td>
<td>Introduction to Legal Research</td>
<td>1</td>
</tr>
<tr>
<td>CIS 103 C</td>
<td>Microsoft Excel and PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CIS 113 C</td>
<td>MS Access and Expression Web</td>
</tr>
<tr>
<td>CIS 114 C</td>
<td>MS Outlook/Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CIS 160 C</td>
<td>Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>CTRP 073AC</td>
<td>Spelling for Modern Business</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 073BC</td>
<td>Punctuation for Court Reporting</td>
<td>1</td>
</tr>
<tr>
<td>CTRP 076 C</td>
<td>Court &amp; Deposition Procedures</td>
<td>1½</td>
</tr>
<tr>
<td>CTRP 080 C</td>
<td>Internship: Law Office</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Units Required**: 36½

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**OFFICE ASSISTANT SKILLS CERTIFICATE**

Program Code: 1K00011

To prepare students for a variety of occupational office positions with a basic understanding of computer software.

To earn a certificate, students must complete the required courses as 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 101 C</td>
<td>Intro. to Keyboarding/MS Word</td>
<td>3</td>
</tr>
<tr>
<td>CIS 102 C</td>
<td>Document Formatting – MS Word</td>
<td>3</td>
</tr>
<tr>
<td>CIS 108 C</td>
<td>Introduction to Internet</td>
<td>2</td>
</tr>
<tr>
<td>CIS 150 C</td>
<td>Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 114 C</td>
<td>MS Outlook/Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MGT 055 C</td>
<td>Business English</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units Required**: 17
Office Administration (OFF)
SEE - COMPUTER INFORMATION SYSTEMS FOR TYPING/KEYBOARDING CLASSES

OFF 048 C RECORDS ADMINISTRATION
1 Unit
One hour lecture and
Two hours laboratory TBA per week.
Pass/No Pass/Letter Grade Option
This course is an introduction to the principles and procedures of the alphabetic filing system in Records Administration. The instructions will include the ARMA (Association of Records Managers and Administrators, Inc.) system filing rules as well as the storage, destruction, transfer, and tracking of records. $3.00 Materials Fee – PAYABLE AT REGISTRATION.

Optometry

OPTOMETRY TRANSFER PROGRAM
Professional programs such as dentistry, medicine, pharmacy, optometry, physician assistant, physical therapy and veterinary medicine are most often graduate programs that require a bachelor degree or significant preparation prior to entering the program. The appropriate preparation varies according to the school and specific program. Students are advised to meet with a counselor to discuss options for their bachelor degree and the lower division requirements for the program and school of their choice.

Pharmacy

PHARMACY TRANSFER PROGRAM
Professional programs such as dentistry, medicine, pharmacy, optometry, physician assistant, physical therapy and veterinary medicine are most often graduate programs that require a bachelor degree or significant preparation prior to entering the program. The appropriate preparation varies according to the school and specific program. Students are advised to meet with a counselor to discuss options for their bachelor degree and the lower division requirements for the program and school of their choice.

Philosophy and Religious Studies

Division of Social Science

Division Dean – Nina DeMarkey

Faculty
Robert Cavin
Willis Heusser

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

ASSOCIATE IN ARTS DEGREE
PHILOSOPHY Program Code: 1A6881
The Associate in Arts Degree in Philosophy is designed to develop the reasoning skills needed to understand and evaluate theories about society, persons, reality, knowledge, truth, values, etc. The purpose of which is to uncover the assumptions underlying our understanding of the world and to subject those assumptions to careful scrutiny using the tools of logic. Upon successful completion, students will understand the major concepts and issues that have shaped philosophical traditions and be able to make decisions based on rigorous, logical standards. Skills in thinking and problem solving, research, writing, criticism, and analysis are emphasized. This will include the ability to critically analyze the logical structure of arguments in contemporary social and moral issues and to assess the influential positions on theories of truth and the nature of reality. The precision of thought and expression that philosophy requires makes excellent preparation for a variety of careers. Those who do well in philosophy can expect to think more clearly and logically and to approach problems and issues more systematically. Graduate study is important in Philosophy. Those holding a Master’s or Doctoral Degree may find employment in education, law, journalism, health, business, theology, public service and other disciplines where analytical skills are required. A limited number of students who earn graduate degrees in philosophy go on to become college philosophy professors. Those without a graduate degree will find limited career opportunities in direct areas of Philosophy. 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.

The Associate in Arts Degree in Philosophy will provide students with an introduction to the field including its analytic foundations and applied areas. The degree curriculum and major provide a sound foundation for transfer students intending further upper-division study as preparation for the baccalaureate degree.
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 percent 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.

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<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 100 C</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 100HC</td>
<td>Honors Intro to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 160 C</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 201 C</td>
<td>History of Philosophy: Ancient &amp; Medieval</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 202 C</td>
<td>History of Philosophy: Modern &amp; Contemporary</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 170 C</td>
<td>Logic and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 172 C</td>
<td>Critical Thinking and Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 175 C</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 101 C</td>
<td>Intro to Religious Studies</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 110 C</td>
<td>Religions of the East</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 120 C</td>
<td>Religions of the West</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 130 C</td>
<td>Philosophy of Immortality</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 165 C</td>
<td>Business &amp; Professional Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 176 C</td>
<td>Philosophy of Science and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 225 C</td>
<td>Jesus and His Interpreters</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 230 C</td>
<td>Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 269 C</td>
<td>Philosophy, Human Sexuality, and Religion</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 102 C</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ART 100 C</td>
<td>Introduction to Art</td>
<td>3</td>
</tr>
<tr>
<td>ENGL/INDS 110/100 C</td>
<td>Humanities: Ancient &amp; Medieval</td>
<td>3</td>
</tr>
<tr>
<td>ENGL/INDS 111/101 C</td>
<td>Humanities: Renaissance-Present</td>
<td>3</td>
</tr>
<tr>
<td>MATH 030 C</td>
<td>Plane Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MUS 116 C</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 130 C</td>
<td>Principles of Physics</td>
<td>3</td>
</tr>
<tr>
<td>POSC 120 C</td>
<td>Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>POSC 215 C</td>
<td>Comparative Politics</td>
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<tr>
<td>**PSY 101 C</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>**PSY 101HC</td>
<td>Honors General Psychology</td>
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</tr>
<tr>
<td>PSY/SOC 120 C</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 161 C</td>
<td>Probability and Sts-Social Sci</td>
<td>4</td>
</tr>
<tr>
<td>PSY 221 C</td>
<td>The Brain and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 C</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101HC</td>
<td>Honors Intro to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>THEA 100 C</td>
<td>Introduction to the Theater</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required: 18

* A score of 3 or higher on the Advanced Placement (AP) Government and Politics (Comparative) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Psychology exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

PHILOSOPHY AND RELIGIOUS STUDIES
TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Philosophy and Religious Studies (PHIL)

PHIL 100 C  INTRODUCTION TO PHILOSOPHY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course introduces the student to a variety of philosophical issues in metaphysics, theory of knowledge, and ethics, as well as the methodology used by philosophers to address those issues. The origins of Western philosophy as well as its impact on Western civilization will be emphasized. The course systematically explores and evaluates the concepts of reality, value, knowledge, reason, truth, language, definition, beauty, justice, human nature, personal identity, religion, meaning, and freedom. Analysis and synthesis will be stressed for these and other topics of interest to students and/or instructors. Duplicate credit not granted for PHIL 100HC.

PHIL 100HC  HONORS INTRODUCTION TO PHILOSOPHY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course is enhanced for honors students. It introduces the student to a variety of philosophical issues in metaphysics, theory of knowledge, and ethics, as well as the methodology used by philosophers to address those issues. The origins of Western philosophy as well as its impact on Western civilization will be emphasized. The course systematically explores and evaluates the concepts of reality, value, knowledge, reason, truth, language, definition, beauty, justice, human nature, personal identity, religion, meaning, and freedom. Analysis and synthesis will be stressed for these and other topics of interest to students and/or instructors. Duplicate credit not granted for PHIL 100HC.

PHIL 101 C  INTRODUCTION TO RELIGIOUS STUDIES
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course is an introductory study of religion with emphasis on the origins and functions of religion, religious experience, and religious and theological modes of expression. Course content will be drawn from Eastern and Western traditions, ancient, medieval and modern times.
PHIL 110 C  RELIGIONS OF THE EAST
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course systematically introduces and analyzes the intellectual and religious histories of India, China, and Japan. Primary focus will be on the ways in which Eastern traditions such as Hinduism, Buddhism, Confucianism, Taoism, and Zen conceive of the cosmos, meaningful human existence and life’s ultimate goals. Jainism, Sikhism, and Shinto may also be covered. While the main emphasis will be on basic teachings, this course will also investigate religious practices, cultural settings, social impact, and the historical contexts in which these religions arose. Rituals and religious literature may be used to compare and contrast Asian and Occidental belief systems. A field trip may be required by the instructor.

PHIL 120 C  RELIGIONS OF THE WEST
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course is an introduction to Zoroastrianism, Judaism, Christianity, and Islam, as well as the religions of ancient Mesopotamia, Canaan, and Egypt. The history, beliefs, rituals, literature, and art of each religion will be examined with a goal to discovering its conception of God, man, the cosmos, meaningful human existence, and life’s ultimate goals. Skills in objective, scholarly analysis of the scripture of each religion will be developed. Religious trends in the Nineteenth and Twentieth Centuries and contemporary secular and religious humanism will also be discussed. A field trip may be required by the instructor.

PHIL 130 C  PHILOSOPHY OF IMMORTALITY
3 Units
Three hours lecture per week.
CSU
This course critically examines the issue of life after death. It explores this issue from both conceptual and empirical perspectives. It discusses three views regarding life after death and the arguments advanced for them: disembodied survival, reincarnation, and bodily resurrection. It also examines the annihilationist arguments raised by skeptics against these views about survival.

PHIL 135 C  SOCIAL & POLITICAL PHILOSOPHY
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an introduction to social and political thought, especially the central concepts (e.g. democracy, justice, rights, liberty, political authority, political morality, etc.) and issues that arise in classic and contemporary readings. The course involves an examination of the relationship between morality, politics and social justice, from a multi-cultural perspective. Topics include: the sources of legitimate political authority, the meaning of democracy, obligations of citizenship, the nature of the state, the justifications for universal human rights, the foundations of a just society, and how political culture is related to social and political institutions.

PHIL 160 C  INTRODUCTION TO ETHICS
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an introduction to metaethics, normative ethics, and applied ethics. Fundamental ethical concepts, theories, and arguments in classical, medieval, modern, and contemporary ethical thought are presented, analyzed, and critically evaluated.

PHIL 165 C  BUSINESS & PROFESSIONAL ETHICS
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, CSU GE
This course examines the major ethical issues that arise in contemporary business practices, e.g., preferential treatment for underrepresented groups, responsibility to the environment, codes of conduct for professional persons, sexual harassment, and the morality of strikes by public service personnel. The course considers leading normative ethical theories and the ways they have been applied by ethicists to provide solutions to the ethical problems that arise in business. It also emphasizes the development of logical skills necessary for critically evaluating arguments that have been given for and against the solutions proposed to ethical problems that arise in business.

PHIL 170 C  LOGIC AND CRITICAL THINKING
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE
Advisory: Eligibility for ENGL 100 C. This course focuses on elements of clear, straight, orderly and valid thought, including deductive and inductive reasoning and the accurate use of language. This course explores practical applications of logic.

PHIL 172 C  CRITICAL THINKING/WRITING
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Prerequisite: ENGL 100 C with a grade of “C” or better. This course is an introduction to the techniques of argument analysis, evaluation, and construction as applied to essay writing. The course includes such topics as standard form and argument patterns; deduction, validity, and soundness; truth-functional arguments, truth-tables, and natural deduction; quantificational arguments; categorical syllogisms and Venn Diagrams; truth; induction, strength, and cogency; sampling arguments, causal arguments, statistical syllogisms, analogical arguments, and explanatory arguments; the probability calculus; formal and informal fallacies; and definition, language, and meaning; thesis statements, the writing of coherent, well-developed essays, and grammar, punctuation, and orthography.

PHIL 175 C  SYMBOLIC LOGIC
3 Units
Three hours lecture per week.
UC/CSU, CSU GE
This is a course in elementary, truth-functional, propositional logic and first-order quantificational predicate logic, up through identity and definite descriptions. The course covers the techniques for the translation of English statements and arguments into formal logical languages and the methods for determining whether these arguments are valid.
PHIL 176 C  PHILOSOPHY OF SCIENCE AND CRITICAL THINKING
3 Units
Three hours lecture per week.
UC/CSU
This course is designed for students who want to understand the structure of science, its methodology, and how it differs from pseudo-science. Emphasis is on the use of critical thinking methods as used in science which includes the ability to distinguish fact from judgment, belief from knowledge, skills used in elementary inductive and deductive processes along with an understanding of the formal and informal fallacies of language and thought. Eligibility for ENGL 100 C recommended; a course in science recommended, but not required.

PHIL 201 C  HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This historical introduction to philosophy traces the development of Western philosophy from the early Greeks through the Medieval Period, emphasizing those ideas which have most influenced the development of Western culture. This course will explore the birth of rational thought with the Pre-Socratics, such as Anaximander, Heraclitus, the Pythagoreans, Parmenides, Empedocles, and the Greek atomists, then move to Athens with Socrates, Plato, and Aristotle, and continue with philosophers from the late Classical and Medieval periods such as the Stoics, the Skeptics, Augustine, Aquinas, and Ockham. This course surveys the development and transformation of Greek and Hellenistic metaphysics, epistemology, and ethics within the context of later philosophical theology. Emphasis will be placed on viewing these periods from the historical and cultural setting of the texts, which is relevant to many of the significant religious and philosophical issues facing us now, including the perennial search for values.

PHIL 202 C  HISTORY OF PHILOSOPHY: MODERN AND CONTEMPORARY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This is a survey of Western philosophical thought from the Renaissance to the present. The course emphasizes metaphysics, theory of knowledge, and ethics, but may also include the development of views on political philosophy, God’s existence, skepticism, empiricism, limits of human knowledge, causality, logic, semantics, and philosophical foundations of modern science. The course also examines the influence of past philosophical movements on modern life, including the growth of science and social and cultural changes.

PHIL 225 C  JESUS AND HIS INTERPRETERS
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, CSU GE, IGETC
This course is a systematic introduction to the historical study of Jesus of Nazareth. It focuses upon: the various ways in which Jesus is depicted in the traditions of the Bible, in particular, the Synoptic Gospels, the Gospel of John, and the epistles of Paul; Jesus as critically reconstructed by New Testament scholarship with a view to answering the question of what (if anything) can be known historically regarding his teaching and life, e.g., whether Jesus considered himself to be the Messiah; and Jesus as variously portrayed in the arts, especially, painting, film, and music.

PHIL 230 C  PHILOSOPHY OF RELIGION
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course is an introduction to philosophical thinking about religion, with an emphasis upon traditional Western monotheism. It critically discusses the central arguments for and against such topics as: the existence of God, the veridicality of religious and mystical experience, the cognitive status of religious language, the historicity of miracles, the possibility of life after death, and the equal validity of all religions.

PHIL 269 C  PHILOSOPHY, HUMAN SEXUALITY AND RELIGION
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU
This interdisciplinary course is a systematic examination of the philosophical and religious aspects of human sexuality. The course includes an historical overview of the major philosophical and religious theories about sexuality in the context of a discussion of basic ethical theories. It specifically examines the topics of sex, gender equality, pornography, premarital sex, fidelity, abortion, homosexuality, romantic love, and marriage and family.

PHIL 298 C  PHILOSOPHY SEMINAR
¼ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and Zero to twenty-four hours laboratory per week. Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion type course developed on a particular limited problem or topic of interest to students. It is designed for students who wish to increase their knowledge of a particular interest topic concerning which no other regular class is offered. A paper or group activity may be requested. Credit may range from ¼ to 12 units. Consult the class schedule for the offerings a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

PHIL 299 C  PHILOSOPHY INDEPENDENT STUDY
1 Unit (May be taken for credit 3 times)
Varying hours of scheduled conferences per week according to instructor.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. Independent study is for able students who wish to extend their knowledge of a particular area through individual research and study. It is thought that topics might develop out of a curiosity stimulated in a regular class. The student would then contact the supervising instructor to develop a contract for his/her particular interest so that they could learn more regarding their special topic.
ADVERTISING AND ILLUSTRATIVE PHOTOGRAPHY
CERTIFICATE  Program Code: 1K15692
The Advertising and Illustrative Photography Certificate is designed to prepare students for starting their own business or for employment within the advertising industry.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 201 C</td>
<td>Intro to Professional Photo</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 203 C</td>
<td>Lighting and Studio Practices</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 206 C</td>
<td>Studio Practices</td>
<td>3</td>
</tr>
<tr>
<td>Select a minimum of 6 units from the electives listed below</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Electives:

<table>
<thead>
<tr>
<th>aires:</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 207 C</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 209 C</td>
<td>Careers in Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 215 C</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

COLOR PHOTOGRAPHY
CERTIFICATE  Program Code: 1C13042
The Color Photography Certificate is designed to prepare the student for entry-level employment within the Photo Lab/Service Bureau industry. Students are trained in the use of state-of-the-art printing and processing equipment.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 101 C</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 103 C</td>
<td>Photographic Possibilities</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 207 C</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 208 C</td>
<td>Advanced Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 215 C</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 216 C</td>
<td>Advanced Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

CREATIVE PHOTO ARTS
CERTIFICATE  Program Code: 1K15691
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, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 207 C</td>
<td>Conceptual Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 202 C</td>
<td>Contemporary Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 204 C</td>
<td>History Aesthetics of Photo</td>
<td>3</td>
</tr>
<tr>
<td>Select a minimum of 6 units from the electives listed below</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Electives:

<table>
<thead>
<tr>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 207 C</td>
<td>Color Photography</td>
</tr>
<tr>
<td>PHOT 215 C</td>
<td>Digital Photography</td>
</tr>
<tr>
<td>PHOT 220 C</td>
<td>Alternative Photographic Processes</td>
</tr>
</tbody>
</table>
DIGITAL PHOTOGRAPHY

CERTIFICATE  Program Code: 1K12978
The Digital Photography Certificate is designed to prepare the student for entry-level employment within the Photo Lab/Service Bureau Industry. Students are trained in the use of state-of-the-art printing and processing equipment.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 207 C</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 215 C</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 216 C</td>
<td>Advanced Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 217 C</td>
<td>3D Photo Imaging</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Digital Photo Technician  Program Code: Pending
This certificate is a comprehensive series of courses designed to prepare students for employment in the profession of Digital Photo Technician. Courses will include in depth study of color, high end digital camera operation, computer technology, digital capture workflow, studio lighting, and studio set etiquette.

Required courses are listed in numeric sequence:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 215 C</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 216 C</td>
<td>Advanced Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 203 C</td>
<td>Lighting and Studio Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 207 C</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 227 C</td>
<td>Digital Capture Workflow</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 230 C</td>
<td>Adv. Digital Capture Workflow</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

MULTIMEDIA DIGITAL

CERTIFICATE  Program Code: 1K00091
The Digital Photography Certificate is designed to prepare students to work with a variety of photographically based digital applications within the fields of photography and multimedia.

To earn a certificate, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 215 C</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 216 C</td>
<td>Advanced Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 203 C</td>
<td>Lighting and Studio Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 207 C</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 227 C</td>
<td>Digital Capture Workflow</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 230 C</td>
<td>Adv. Digital Capture Workflow</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

MULTIMEDIA PHOTOGRAPHY

CERTIFICATE  Program Code: 1C13043
This certificate is designed to prepare the student to work with a variety of photographically based digital applications within the field of Multimedia. This flexible module allows the student to develop their own emphasis within the possible course offerings.

To earn a certificate, students must complete the required major courses as 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:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 207 C</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 215 C</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 216 C</td>
<td>Advanced Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 217 C</td>
<td>3D Photo Imaging</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

PHOTOGRAPHY

CERTIFICATE  Program Code: 1C21111
The certificate program in photography allows the student to prepare for entry into an occupational photographic field.

To earn a certificate, students must complete the required courses listed below, plus 3 additional units from the list of suggested electives listed below 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:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 101 C</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 103 C</td>
<td>Photographic Possibilities</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 109 C</td>
<td>Portrait Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 201 C</td>
<td>Intro to Professional Photo</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 207 C</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 209 C</td>
<td>Careers in Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 215 C</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 050 C</td>
<td>Photography-Special Projects</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 104 C</td>
<td>Wedding Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 109 C</td>
<td>Portrait Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 200 C</td>
<td>Conceptual Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 219 C</td>
<td>Photography for Publication</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Electives:

<table>
<thead>
<tr>
<th>Course#</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 208 C</td>
<td>Advanced Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 216 C</td>
<td>Advanced Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 217 C</td>
<td>3D Photo Imaging</td>
<td>3</td>
</tr>
<tr>
<td>ART 120 C</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>AR 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 095 C</td>
<td>Effective Writing</td>
<td>3</td>
</tr>
<tr>
<td>MGT 161 C</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 261 C</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>MKT 208 C</td>
<td>Principles of Selling</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Art (Studio Drawing) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

SPECIALTY IN PHOTOGRAPHY BASIC SKILLS  Program Code: 1K00056
The Photography Basic Skills Certificate is designed to provide the student with a set of fundamental skills that will allow them to further proceed within the photography program and also find potential entry-level employment at camera stores, photo labs and service bureaus. Students are trained in a broad range of skills encompassing basic camera operations and structure, basic printing techniques, and basic studio procedures and practices.
To earn a certificate, students must complete the required courses with a grade of “C” or better. All course work must be completed at Cypress College.

**PHOT 101 C INTRODUCTION TO PHOTOGRAPHY**

3 Units  
Two hours lecture and  
Four hours laboratory TBA per week.  
**Credit by Examination**  
UC/CSU, AA GE, CSU GE  
This course provides students with an introduction to visual concepts, basic image capture and camera functions with film and digital cameras. Software basics for photographic imaging and digital printing, along with traditional black and white darkroom printing will be taught. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

**PHOT 103 C INTERMEDIATE PHOTOGRAPHY**

3 Units  
Two hours lecture and  
Four hours laboratory TBA per week.  
**CSU**  
Advisory: PHOT 101 C. This course is designed to reinforce and enhance the concepts and skills acquired in the Introduction to Photography class. The emphasis will be on the refinement of basic technical skills including black and white processing and printing, film and digital camera operation, basic scanning and image software techniques, and the development of a personal direction in photography for each student. In order to increase the student’s exposure to the medium, the course also includes an introduction to large format cameras and studio lighting. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

**PHOT 104 C WEDDING AND EVENT PHOTOGRAPHY**

3 Units (May be taken for credit 3 times)  
Two hours lecture and  
Three hours laboratory TBA per week.  
**CSU**  
Advisory: PHOT 103 C. This course is designed to acquaint the student with the fundamental concepts, equipment demands, and photographic techniques used by contemporary event, special occasion and wedding photographers. The course is composed of lectures and outside assignments which will prepare the student for basic application in this field of photography. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

**PHOT 105 C PHOTO-GRAPHICS**

2 Units (May be taken for credit 3 times)  
One hour lecture and  
Three hours laboratory per week.  
**CSU**  
Corequisite: PHOT 102 C. Advisory: PHOT 101 C or MMPH 101 C. A basic class in darkroom techniques utilizing graphic arts film and developers. Darkroom manipulations during the photo process are used to give the student a working knowledge of the possibilities offered by unique photo control methods. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

**PHOT 107 C BASIC PHOTOGRAPHY**

1½ Units  
One and one-half hour lecture per week.  
**CSU**  
This is a basic non-darkroom course designed to teach the student how to make better pictures, develop visual literacy and effectively operate a camera. The course will consist of lecture, visual presentations, studio and field demonstrations, plus field trip(s).
PHOT 109 C  **PORTRAIT PHOTOGRAPHY**  
3 Units (May be taken for credit 3 times)  
Two hours lecture and  
Three hours laboratory TBA per week.  
CSU  
Advisory: PHOT 103 C. 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 studio and on location situations. The student will work with both natural and artificial lighting and learn the possibilities and limitations of both. Camera formats will range from 35mm to 4x5 and digital still and video. Students will have an opportunity to investigate and imitate the styles of well known portrait photographers. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

PHOT 200 C  **CONCEPTUAL PHOTOGRAPHY**  
3 Units (May be taken for credit 3 times)  
Two hours lecture and  
Four hours laboratory TBA per week.  
CSU  
Prerequisite: PHOT 103 C with a minimum grade of “C”. This course is designed to give the student a thorough understanding of how issues and concepts are related to the processes used to communicate them. The student will become familiar with major artists whose work employs non-traditional processes. The thrust of the course work will revolve around the different ways that a variety of processes can be used to communicate ideas. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

PHOT 201 C  **INTRODUCTION TO PROFESSIONAL PHOTO**  
3 Units (May be taken for credit 3 times)  
Two hours lecture and  
Four hours laboratory TBA per week.  
CSU  
Advisory: PHOT 103 C. This is a course dealing with the production of photographs for advertising and editorial use. Emphasis will be placed on advanced studio techniques, as well as the conceptual validity of photographs for industry applications. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

PHOT 202 C  **CONTEMPORARY PHOTOGRAPHY**  
3 Units (May be taken for credit 3 times)  
Two hours lecture and  
Four hours laboratory TBA per week.  
UC Credit Limitation/CSU  
Prerequisite: PHOT 103 C with a grade of “C” or better. This is a course designed to give advanced students a thorough understanding of the concepts and concerns of contemporary photography, its roots and future directions. The student will become familiar with the course work of major artists working after 1950. The major thrust of the course work will be focused on understanding why photographs are done and what they communicate. Assignments will be done in the process(es) of the student’s choice based on its relevance to the ideas expressed. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

PHOT 203 C  **STUDIO LIGHTING TECHNIQUES**  
3 Units (May be taken for credit 3 times)  
Two hours lecture and  
Four hours laboratory TBA per week.  
CSU  
Advisory: PHOT 103 C. 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 both studio and location situations. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

PHOT 204 C  **HISTORY/AESTHETICS OF PHOTO**  
3 Units  
Two hours lecture and  
Four hours laboratory TBA per week.  
UC/CSU  
Advisory: PHOT 103 C. 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 the early 1950’s. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

PHOT 206 C  **STUDIO PRACTICES**  
3 Units (May be taken for credit 3 times)  
Two hours lecture and  
Four hours laboratory TBA per week.  
CSU  
Prerequisite: PHOT 103 C with a minimum grade of “C”. This course is designed to give the student a thorough understanding of how issues and concepts are related to the processes used to communicate them. The student will become familiar with major artists whose work employs non-traditional processes. The thrust of the course work will revolve around the different ways that a variety of processes can be used to communicate ideas. $20.00 Materials Fee – PAYABLE AT REGISTRATION.

PHOT 207 C  **COLOR PHOTOGRAPHY**  
3 Units (May be taken for credit 3 times)  
Two hours lecture and  
Four hours laboratory TBA per week.  
CSU  
Advisory: PHOT 103 C. The course is designed for the advanced student and provides a solid background in the theory and practice of color photography. Students will explore the possibilities and limitations of traditional and digital color processes, including color negative and digital printing methods. Emphasis will be placed on both technical and aesthetic expression of color, from initial image capture to finished print, along with color symbolism and its use as a compositional tool. $35.00 Materials Fee – PAYABLE AT REGISTRATION.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 208</td>
<td>ADVANCED COLOR PHOTOGRAPHY</td>
<td>3</td>
<td></td>
<td>Two hours lecture and Four hours laboratory per week. Prerequisite: PHOT 207 C or MMPH 207 C with a grade of “C” or better. Better. This course is designed to provide the student with advanced knowledge of techniques and skills in the application of electronic and digital/computer technologies to all areas of the photographic medium. (Commercial, Illustration, Portraiture, Journalism, Forensic, Industrial, Scientific, etc.) The integration of technical skills and aesthetic expression will be emphasized along with advanced scanning, printing, and image recording techniques. Projects will require exploration and experimentation integrating digital image making into the creative process. The objective is to merge traditionally different modes of photographic expression while studying the aesthetic traditions that have influenced photographers in their use of digital technologies. Students develop the skills necessary to create their own unique body of work using digital photographic technologies. $35.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>PHOT 209</td>
<td>CAREERS IN PHOTOGRAPHY</td>
<td>3</td>
<td></td>
<td>Two hours lecture and Four hours laboratory TBA per week. Advisory: PHOT 103 C. This course is designed to help students identify and achieve professional goals and objectives. The course will provide an understanding of the various career options within the field and the level of professional preparation that is necessary in order to get established in a particular career area. Topics will include the technical skills, equipment, portfolio development, promotional needs and specialized business considerations necessary for getting a job or establishing a photographic business. $20.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>PHOT 211</td>
<td>ZONE SYSTEM PHOTOGRAPHY</td>
<td>3</td>
<td></td>
<td>Two hours lecture and Four hours laboratory per week. Corequisite: PHOT 102 C. Advisory: PHOT 103 C. This is a course emphasizing the zone system of exposure control. This method of exposure is used to control final print quality under normal and adverse applications. Natural landscape photography will be the emphasis but not at the exclusion of all other forms of photography. Both black and white and color will be emphasized. $20.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>PHOT 215</td>
<td>DIGITAL PHOTOGRAPHY</td>
<td>3</td>
<td></td>
<td>Two hours lecture and Four hours laboratory TBA per week. Advisory: PHOT 103 C or MMPH 103 C. This course is designed to integrate electronic imaging into the advanced photography student’s visual repertoire. Combining creative studio/camera practices with computer technology, the course concentrates on the production and processing of images with current electronic photographic tools and the application of electronic media to all areas of photography (commercial, illustration, portraiture, journalism, forensic, industrial, scientific, etc.). Included are techniques for lighting, background control, selection and manipulation, digitization, image capture and processing. $35.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>PHOT 216</td>
<td>ADVANCED DIGITAL PHOTOGRAPHY</td>
<td>3</td>
<td></td>
<td>Two hours lecture and Four hours laboratory TBA per week. Prerequisite: PHOT 215 C or MMPH 215 C with a grade of “C” or better. This course is designed to provide the student with advanced knowledge of techniques and skills in the application of electronic and digital/computer technologies to all areas of the photographic medium. (Commercial, Illustration, Portraiture, Journalism, Forensic, Industrial, Scientific, etc.) The integration of technical skills and aesthetic expression will be emphasized along with advanced scanning, printing, and image recording techniques. Projects will require exploration and experimentation integrating digital image making into the creative process. The objective is to merge traditionally different modes of photographic expression while studying the aesthetic traditions that have influenced photographers in their use of digital technologies. Students develop the skills necessary to create their own unique body of work using digital photographic technologies. $35.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>PHOT 217</td>
<td>3D PHOTO IMAGING</td>
<td>3</td>
<td></td>
<td>Two hours lecture and Four hours laboratory TBA per week. Prerequisite: PHOT 103 C or MMPH 103 C with a grade of “C” or better. This course is designed to provide the student with advanced knowledge of 3D photographic imaging technologies as they relate to the study of light, form, and three-dimensional space. Students will study lighting, form, and space in virtual environments of their own creation. A diverse assortment of 3D software will be utilized to instruct students in how forms are visually perceived and modified based on the way light describes them. The relationship between 2D and 3D imaging applications will be discussed as well as the integration of the two for a variety of commercial photography and multimedia applications. These include studio background creation, special visual effects, game production, photo illustration, and digital composites. $35.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
</tr>
<tr>
<td>PHOT 219</td>
<td>PHOTOGRAPHY FOR PUBLICATION</td>
<td>3</td>
<td></td>
<td>Two hours lecture and Four hours laboratory TBA per week. Advisory: PHOT 101 C. This course is designed to acquaint the student with a current view of the field of photojournalism and photographic publishing for magazines, the Internet, and all editorial uses. The majority of work will be done in 35mm. Heavy emphasis is placed on communication through photography. $20.00 Materials Fee – PAYABLE AT REGISTRATION.</td>
</tr>
</tbody>
</table>
PHOT 220 C  ALTERNATIVE PHOTOGRAPHIC PROCESSES
3 Units (May be taken for credit 3 times)
Two hours lecture and Four hours laboratory TBA per week.
CSU
Advisory: PHOT 103 C. This class will investigate the artistic aspects and technical procedures used in 19th century photographic printing of hand coated papers. Class projects will include aspects of graphic arts photography, films and developers. During the semester, students will work with a variety of processes such as cyanotypes, kallitypes and kwik print. $35.00 Materials Fee – PAYABLE AT REGISTRATION.

PHOT 227 C  DIGITAL CAPTURE WORKFLOW
3 Units (May be taken for credit 3 times)
Two hours lecture and Four hours laboratory TBA per week.
CSU
Advisory: PHOT 101 C, PHOT 103 C, PHOT 215 C and PHOT 216 C. This workflow based class will provide a foundation for capturing and processing Raw digital photo files with the latest prevailing high end digital imaging hardware and software. The course will be centered around using software such as Adobe Lightroom to create optimal digital files. Students will have the opportunity to gain hands on experience with various professional camera platforms such as Leaf and Phase. They will develop the skills necessary to work effectively with their own digital files as a professional photographer or in a support capacity such as a digital photo technician. $35.00 Material Fee – PAYABLE AT REGISTRATION.

PHOT 230 C  ADVANCED DIGITAL CAPTURE WORKFLOW
3 Units (May be taken for credit 3 times)
Two hours lecture and Four hours laboratory TBA per week.
CSU
Advisory: PHOT 227 C. This course will allow students to work hands on with 35mm and 2¼ digital camera systems, building upon the skills learned in Digital Camera Workflow. Practical application of tethered photography using the camera manufacturer software in conjunction with Adobe Lightroom will be the focus. Students will have the opportunity to gain organizational skills such as file naming, shot folder hierarchy and metadata strategies. Monitor and camera calibration as well as basic computer and camera troubleshooting techniques will be taught. Through guest speakers and a set visit, they will gain valuable insights about how to work professionally as a photographer or digital tech. $35.00 Material Fee – PAYABLE AT REGISTRATION.

PHOT 298 C  PHOTOGRAPHY SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and Zero to sixty hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a course for students who wish to increase their knowledge of photography. Various topics will be offered. Unit credit may range from ½ to 12 units in any given semester. Consult the class schedule to verify credit for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

Physical Education
Division of Physical Education and Athletics

Division Dean – Diane Henry

Faculty
Larry Beidler
Paul Bottiaux
Margaret Mohr
Brad Pickler
Scott Pickler
William Pinkham
Nancy Welliver

Counselor
Dana Bedard

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

Athletics
Students who complete the Athletics program will be:
- Prepared to transfer to a 4-year College/University
  - Able to acquire cognitive knowledge and physical skills to improve performance

Professional/Career
Students who complete the Professional/Career program will be able to:
- Enhance their professional career opportunities in the area of physical education
- Acquire the theory and practical skills related to the physical education activities
- Acquire the theory and knowledge in the field of physical education

ASSOCIATE IN ARTS DEGREE PHYSICAL EDUCATION
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 aerobics, 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 percent 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.
**AERobic Instructor Certificate**  
Program Code: 1C07828  
Primary emphasis is to prepare the student for occupational competency in aerobic exercise instruction for corporate fitness or health clubs. All students must complete 18 units. Course work in PE 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, students must complete the required courses as 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 161 C</td>
<td>Body Conditioning and Fitness</td>
<td>1</td>
</tr>
<tr>
<td>PE 178 C</td>
<td>Core Strength &amp; Stability</td>
<td>1</td>
</tr>
<tr>
<td>PE 129 C</td>
<td>Step Aerobics</td>
<td>1</td>
</tr>
<tr>
<td>PE 235 C</td>
<td>First Aid, CPR &amp; Emergencies</td>
<td>3</td>
</tr>
<tr>
<td>PE 236 C</td>
<td>Prev &amp; Care/Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>PE 244 C</td>
<td>Contemporary Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>PE 234 C</td>
<td>Physical Education – Independent Study</td>
<td>2</td>
</tr>
<tr>
<td>*BIOL 101 C</td>
<td>General Biology</td>
<td>5</td>
</tr>
</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Biology exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

**Electives**

Choose one of the following and at least 3 units from activity classes to include pro activity classes

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 231 C</td>
<td>Elementary School Movement-PE</td>
<td>3</td>
</tr>
<tr>
<td>PE 236 C</td>
<td>Prev &amp; Care/Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>PE 240 C</td>
<td>Sports Management</td>
<td>3</td>
</tr>
<tr>
<td>PE 244 C</td>
<td>Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>PE 248 C</td>
<td>Psychology of Sport</td>
<td>3</td>
</tr>
<tr>
<td>PE 252 C</td>
<td>Intro to Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>PE 266 C</td>
<td>Theory of Coaching Basketball</td>
<td>3</td>
</tr>
<tr>
<td>PE 267 C</td>
<td>Theory of Coaching Baseball</td>
<td>3</td>
</tr>
<tr>
<td>HRC 100 C</td>
<td>Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Required 18 - 21
ATHLETIC COACH CERTIFICATE  Program Code: 1C07830
Primary emphasis is to prepare the student for occupational coaching at various levels. All students must complete 18 units. Course work in PE 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, students must complete the required courses as 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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 235 C</td>
<td>First Aid, CPR, &amp; Emergencies</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 236 C</td>
<td>Prev &amp; Care/Athletic Injuries</td>
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<tr>
<td>or</td>
<td></td>
<td></td>
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<tr>
<td>PE 244 C</td>
<td>Human Performance</td>
<td>3</td>
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<tr>
<td>or</td>
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<td></td>
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<tr>
<td>PE 234 C</td>
<td>Contemporary Personal Health</td>
<td>3</td>
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<td>or</td>
<td></td>
<td></td>
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<tr>
<td>PE 248 C</td>
<td>Psychology of Sport</td>
<td>3</td>
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<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 261 C</td>
<td>Pro Act - Tennis</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 281 C</td>
<td>Pro Act - Basketball</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 280 C</td>
<td>Pro Act - Baseball</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 282 C</td>
<td>Pro Act - Softball</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 284 C</td>
<td>Pro Act - Soccer</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 262 C</td>
<td>Pro Act - Volleyball (Coed)</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 266 C</td>
<td>Theory of Coaching Basketball</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 267 C</td>
<td>Theory of Coaching Baseball</td>
<td>3</td>
</tr>
</tbody>
</table>

A minimum of 4 units from the electives listed below

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 225 C</td>
<td>Intro to Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>PE 240 C</td>
<td>Sports Officiating</td>
<td>3</td>
</tr>
<tr>
<td>PE 250 C</td>
<td>Sport &amp; United States Society</td>
<td>3</td>
</tr>
<tr>
<td>PE 299 C</td>
<td>Physical Education Indep Study</td>
<td>½ - 2</td>
</tr>
<tr>
<td>PE 152 C</td>
<td>Intro to Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>PE 247 C</td>
<td>Sports Management</td>
<td>3</td>
</tr>
<tr>
<td>PE 231 C</td>
<td>Elementary School Movement – PE</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

SPORTS MANAGEMENT SKILLS CERTIFICATE  Program Code: 1K00063
This program is designed to prepare students for management careers in the sports and recreation industries, working with professional, college or high school teams; fitness, athletic, golf and tennis clubs; recreational facilities and parks; or marketing and selling athletic clothing and sports equipment. Combining knowledge of physical education with general business principles, this certificate will help students gain responsible positions in their chosen athletic field.

To earn a certificate, students must complete the required courses as 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 numeric sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 247 C</td>
<td>Sports Management</td>
<td>3</td>
</tr>
<tr>
<td>PE 248 C</td>
<td>Psychology of Sport</td>
<td>3</td>
</tr>
<tr>
<td>MGT 161 C</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 266 C</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>MKT 222 C</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Total Units Required</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

PHYSICAL EDUCATION TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Physical Education (PE)

**All classes with double asterisks are off-campus. Students should allow for travel time.**

PE 100 C  ADAPTIVE P.E. - WEIGHT TRAINING
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: This course is expressly designed for, but not limited to, students with permanent disability. This course is designed to give students with a disability the opportunity to participate in resistance exercises with weights.

PE 101 C  ADAPTIVE P.E. - ACTIVITY
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: This course is expressly designed for, but not limited to, students with permanent disability. This course is designed for the disabled student. The class will emphasize modified individual and team sport activities.

PE 102 C  YOGA
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This is an overview 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 yoga portion will also help to tone and strengthen muscles.

PE 104 C  ATHLETIC WEIGHT TRAINING
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed with athletes in mind, but not limited to them, to enable them to work out with a prescribed individual weight program at least three days a week. It will involve specific resistance exercises to develop parts of the body used in various types of sports activities. It will also add to the safety of the athletes by helping to prevent injuries.
PE 105 C  BADMINTON
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is in the fundamental skills of badminton with emphasis on position play and strategy for singles, doubles, and mixed doubles. The class will include rules, etiquette, drills, and class competition. Equipment is furnished.

PE 107 C  TABLE TENNIS
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course will consist of essential strokes with emphasis on the game strategies for singles and doubles play of table tennis. Rules, etiquette and tournament format will be introduced to the class.

**PE 108 C  BOWLING
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course teaches the fundamental skills of bowling with emphasis on form, terminology and scoring. The student will have the opportunity for class competition. The class will be conducted at an off campus bowling establishment. Facility use fee required. To be paid throughout the semester at the facility.

PE 109 C  FUTSAL (INDOOR SOCCER)
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
The class will provide instruction and practice in the techniques of futsal (indoor soccer). This course will develop skills, provide knowledge of the rules and teach students to analyze techniques, solve tactical problems and improve physical fitness.

PE 114 C  CARDIOVASCULAR CONDITIONING
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed to provide an individualized exercise program for the student interested in achieving physical fitness through a program of cardiovascular conditioning.

**PE 115 C  GOLF - BEGINNING
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course emphasizes the basic fundamentals of golf, including rules, etiquette, and terminology. Golfing activity will be held at an on-campus location for the first half of the class. The second half of the class will be held at an off-campus golf facility. Facility use fee required. To be paid throughout the semester at the facility.

PE 117 C  GYMNASTICS
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed to teach basic skills and knowledge necessary to the performance of gymnastic stunts. The class develops agility, balance, timing, flexibility, and strength.

PE 118 C  GYMNASTICS APPARATUS
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed to give the student concentrated instruction and practice on the uneven bars, horizontal bar, parallel bars, balance beam, side horse, vaulting, and rings.

PE 119 C  GYMNASTICS - TUMBLING
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed to teach basic skills and knowledge necessary to the performance of gymnastic stunts. The class develops agility, balance, timing, flexibility, and strength.

PE 121 C  WALKING FOR FITNESS
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course will emphasize walking for health and fitness for men and women who are interested in instruction and practice in cardiovascular walking. This class is designed to decrease the risk of coronary heart disorders by increasing heart efficiency, vital lung capacity and the knowledge of each through aerobic and anaerobic conditioning.

PE 122 C  SURFING
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Demonstrate ability to swim. This course offers students the opportunity to learn and improve the skills of wave riding. Examination and analysis of paddling, wave selection, water safety, equipment, tides, current, and etiquette are emphasized for long boarding and short boarding. Transportation will not be furnished.

PE 129 C  STEP AEROBICS
1⁄2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course provides aerobic development through coordinated stepping movements performed to music. The class will emphasize cardiovascular improvement, muscle development, and decreased body fat.
**Cypress College 2010-2011**

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**PE 134 C  SWIMMING**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 2 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course provides basic instruction and practice in the fundamental elements of swimming including beginning diving and water safety instruction. The class is designed to develop proficiency in the basic strokes needed to meet the prerequisites for the senior lifesaving and water safety instruction courses.

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**PE 135 C  SWIMMING - INTERMED/ADVANCED**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Demonstrate ability to swim. This course is designed to develop knowledge and skill in competitive swimming strokes. The swimming strokes to be taught are the American crawl, backstroke, breaststroke, and dolphin butterfly. The class will emphasize the development of cardiovascular aerobic conditioning.

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**PE 136 C  SPRINGBOARD DIVING**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Demonstrate ability to swim. This course is designed to teach the fundamentals of springboard diving. The beginning diver will learn diving progression for the front, back, reverse, inward and twisting dives.

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**PE 139 C  TENNIS**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
The course will place emphasis on tennis fundamentals including forehand, backhand and the serve. The course also includes rules, court strategy, and etiquette of singles and doubles play. Tournaments will be conducted during class sessions. Students must provide their own equipment.

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**PE 141 C  SPECIALIZED TENNIS SKILLS**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This class is designed for students desiring instruction from intermediate to advanced tennis. The class provides the opportunity to put techniques into practice through placement in the various levels of tennis ability.

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**PE 142 C  MOUNTAINEERING/ROCK CLIMBING**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed for those students wishing to develop beginning through advanced skills in mountaineering/rock climbing. Teaching emphasis is on preparation, knowledge of equipment, physical techniques, and the mental approach to climbing. Facility use fee required, to be paid throughout the semester at the facility.

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**PE 144 C  VOLLEYBALL**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 2 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course will include teaching of the basic skills of volleyball with emphasis on strategy and rules. The students will be offered the opportunity for class and interclass competition.

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**PE 145 C  VOLLEYBALL - INTERMED/ADVANCED**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Demonstrate ability to swim. Basic instruction will be given in the fundamental skills of water polo. Instruction will emphasize passing, shooting, dribbling, conditioning, game strategy, and terminology. The course will include aquatic drills, scrimmages and appropriate learning activities for the intermediate and advanced water polo player.

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**PE 146 C  WATER POLO**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Demonstrate ability to swim. This course is designed to provide advanced skill development and strategies of volleyball. This class will provide intermediate and advanced players an opportunity to practice competitive techniques in games situations.

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**PE 147 C  LOW-IMPACT AEROBICS**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course provides an aerobic workout without jogging, running, jumping or other high impact type movements which might result in over stress to feet, ankles, knees, hips or the spinal column. The exercise sessions will include simple dance steps, dynamic full body movements, muscle toning, stretching and relaxation techniques. This course is designed to prevent injury and is ideal for beginning aerobizers, the overweight individual, injured or recuperating students, and older students as well as the general student population. This class is designed for both men and women.

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**PE 148 C  SWIM FOR FITNESS**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course provides basic instruction and practice in the fundamental elements of swimming including beginning diving and water safety instruction. The class is designed to develop proficiency in the basic strokes needed to meet the prerequisites for the senior lifesaving and water safety instruction courses.

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**PE 149 C  MOUNTAINEERING/ROCK CLIMBING**

½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed for those students wishing to develop beginning through advanced skills in mountaineering/rock climbing. Teaching emphasis is on preparation, knowledge of equipment, physical techniques, and the mental approach to climbing. Facility use fee required, to be paid throughout the semester at the facility.
PE 150 C  RHYTHMIC AEROBIC EXERCISE
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course provides an aerobic development through rhythmic, high impact movements. The class activities will emphasize stretching, walking, jogging, running, and rope jumping in a dance setting to music.

PE 151 C  WATER AEROBICS/POOL EXERCISES
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This class is designed to provide callisthenic type exercises and routines using the resistance of the water as a means for developing cardiovascular endurance, strength, flexibility, and coordination. Students will be able to improve posture and appearance through performance and understanding of using the water as a resistance. Non-swimmers welcome.

PE 152 C  FITNESS TRAINING LAB
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to six hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed so that workouts can be scheduled any time the lab is open on an individual basis. Circuit training has proven especially beneficial for people not interested in competitive weight training but desiring good muscle tone and cardiovascular fitness. This type of training gives maximum return in a controlled workout with flexible hours and variable units.

PE 153 C  SPINNING
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
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.

PE 154 C  FITNESS TESTING W/PRESCRIPTION
2 Units (May be taken for credit 4 times)
One hour lecture and
Two hours activity per week.
CSU, AA GE, CSU GE
Prerequisite: Physician’s clearance required for persons age 35 or over. This course will evaluate the fitness level of individuals by modern scientific equipment. Based on the results of a battery of tests, an exercise prescription will be developed to meet individual goals. Student progress will be evaluated with post-testing.

PE 156 C  POWER TRAINING
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to six hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is an open laboratory experience for those people who want to get maximal physical return for a limited time invested. This class is designed to provide instruction and supervision of students with individualized power training programs using free weights. It is for men and women of all ages who are interested in improving power moves using squats, dead lifts, and the bench press. Workout times are adjusted to the individual’s schedule with flexible hours and variable units.

**PE 157 C  SPECIALIZED GOLF SKILLS
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course will emphasize advanced golf techniques and playing strategies. The class will provide advanced and low handicap golfers the opportunity to enhance their skills and techniques in execution of golf scoring strategies. Facility use fee required. To be paid throughout the semester at the facility.

PE 159 C  STRENGTH TRAINING -
½ - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to six hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is an open laboratory experience for those people who want to get maximal physical return for a limited time invested. The class is designed to provide instruction and supervision of students with individualized strength training programs using Life Fitness, Universal and Olympic weights. It is for men and women of all ages who are interested in muscle toning, muscle rehabilitation, and/or weight redistribution. Workout times are adjusted to the individual’s schedule with flexible hours and variable units.

ACTIVITIES DESIGNED FOR, BUT NOT LIMITED TO, WOMEN

PE 160 C  BASKETBALL
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This activity class stresses development of the fundamental skills of basketball. Game strategies including various offenses and defenses will be analyzed and applied through team competition.

PE 161 C  BODY CONDITIONING/FITNESS
½ - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed for students to participate in a comprehensive fitness program which includes stretching, cardiovascular, and strengthening exercises. The exercises help develop agility, improve coordination, and increase endurance while normalizing body weight and improving muscle tone.
PE 162 C  CONDITIONING FOR ATHLETES
1/2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed for individualized instruction and practice in the areas of weight training, weight lifting, anaerobic and aerobic fitness, and flexibility for competition in various intercollegiate sports.

PE 163 C  KICK-BOXING
1/2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Instruction in forms of kick-boxing that stress cardiovascular endurance, strength development, and improved flexibility. The aerobic workout will include influences from several martial arts. The sparring and self defense aspects of kick-boxing will be included.

PE 170 C  SELF DEFENSE
1/2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course provides instruction in developing both physical and cognitive skills in personal safety and self-protection. Through different forms of martial arts training, students will practice both defensive and offensive moves against various forms of attacks, including weapons. Proficiency in the practical, effective, and tactical use of movement, leverage, strikes, and use of everyday objects as weapons is stressed.

PE 171 C  SOCCER
1/2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This class will provide instruction in the techniques of soccer for women. This course will develop skills, knowledge of rules, analysis of techniques and game strategies.

PE 172 C  SOFTBALL
1/2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
The course will emphasize basic skills of women’s softball including techniques, strategies of offense and defense, rules and terminology.

PE 174 C  INLINE SKATING
1/2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
The course will place emphasis on inline skating fundamentals including turning, stopping, skating posture and balance. The course of study will also include terminology, etiquette and aerobic and anaerobic fitness training. Rental fee is required if the student does not supply his/her own skates and safety equipment such as helmet, wrist, elbow and knee pads.

PE 177 C  SONG AND YELL LEADER WORKSHOP
1 Unit (May be taken for credit 4 times)
Three hours laboratory per week.
CSU, AA GE, CSU GE
Prerequisite: Audition. This course is designed to enhance skill and difficulty level of exercises, routines, gymnastics and stunting abilities. Emphasis on leadership techniques will also be discussed.

PE 178 C  CORE STRENGTH & STABILITY
1/2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course is designed for students to participate in a comprehensive fitness program which includes stretching and core strengthening exercises using stability balls, hand weights and tubing. The exercises help develop agility, improve coordination, and increase core body strength.

PE 179 C  PEP SQUAD TRAINING
2 Units (May be taken for credit 4 times)
Ten hours activity per week.
CSU, AA GE, CSU GE
Prerequisite: Audition. This course is designed for pep squad to develop skills in tumbling, stunts, dance technique, choreography, leadership skills, crowd motivation, and competition. Performance is mandatory at school athletic events and campus functions.

ACTIVITIES DESIGNED FOR, BUT NOT LIMITED TO, MEN

PE 180 C  BASEBALL
1/2 - 1 Unit (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
The class includes instruction in the fundamental skills of baseball with emphasis on techniques, game strategy, and the correct methods to play the game. The course includes drills and class competition.

PE 181 C  BASKETBALL
1/2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course will include instruction in the fundamental skills of basketball with an emphasis on strategy and team play. The class will include rules, drills, and team competition. Equipment is furnished.

PE 182 C  BODY BUILDING AND DEVELOPMENT
1/2 - 1 Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course includes building and developing the body through the use of progressive resistance exercises, as well as instruction in the proper techniques of power lifting.
PE 184 C  DODGEBALL
\( \frac{1}{2} - 1 \) Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This class will provide instruction and practice in the techniques of dodgeball. This course will develop skills, provide knowledge of the rules, teach students to analyze techniques, solve tactical problems and improve physical fitness. Teamwork and strategies will be emphasized while participating in several varieties of dodgeball. May be taken for credit 4 times.

PE 187 C  PHYSICAL FITNESS
\( \frac{1}{2} - 1 \) Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course emphasizes physical fitness for men which will be achieved through the use of resistance exercises and body-building routines.

PE 189 C  SOCCER
\( \frac{1}{2} - 1 \) Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
The course will provide instruction and practice in the techniques of soccer for men. This course will develop skills, knowledge of rules, analysis of techniques and game strategies.

PE 190 C  SOFTBALL
\( \frac{1}{2} - 1 \) Unit (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
The course will emphasize basic skills of softball including techniques and strategies of offense and defense, rules and terminology.

PE 193 C  WEIGHT TRAINING/WEIGHT LIFTING
\( \frac{1}{2} - 1 \) Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This weight training class stresses techniques of lifting that will produce muscle tone and strength.

PE 194 C  WRESTLING
\( \frac{1}{2} - 1 \) Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course will include instruction in the fundamental skills and knowledge necessary for successful participation in amateur wrestling. The class will develop endurance, flexibility and strength.

PE 197 C  RECREATIONAL FOOTBALL
\( \frac{1}{2} - 1 \) Unit (Variable Unit Class) (May be taken for credit 4 times)
One and one-half to three hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
This course will include the basic fundamentals of flag and touch football. The class will emphasize rules, safety procedures, and team play.

INTERCOLLEGIATE ATHLETICS
In order to participate in intercollegiate athletics, all students must enroll in one of the listed classes. The most qualified student athletes will be selected to represent the college during the season. These classes satisfy the physical education graduation requirement. These sports will stress fundamentals, team/individual play, and mental and physical conditioning. Daily practice or a minimum of ten hours per week is required.

PE 202 C  BASEBALL - MEN
2 Units (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 203 C  BASKETBALL - MEN
2 Units (May be taken for credit 4 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 204 C  BASKETBALL - WOMEN
2 Units (May be taken for credit 4 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 207 C  SOCCER - WOMEN
2 Units (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 208 C  GOLF
2 Units (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 209 C  SOCCER - MEN
2 Units (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 210 C  SOFTBALL - WOMEN
2 Units (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.
PE 211 C  SWIMMING - MEN
2 Units  (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 212 C  SWIMMING - WOMEN
2 Units  (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 213 C  TENNIS - MEN
2 Units  (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 214 C  TENNIS - WOMEN
2 Units  (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 215 C  WATER POLO
2 Units  (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 216 C  VOLLEYBALL - WOMEN
2 Units  (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

PE 217 C  BADMINTON - WOMEN
2 Units  (May be taken for credit 3 times)
Ten hours activity per week.
UC Credit Limitation/CSU, AA GE, CSU GE
Prerequisite: Must meet the California Community College Commission on Athletics eligibility requirements and pass a physical examination prior to intercollegiate competition.

THEORY - PHYSICAL EDUCATION

PE 231 C  ELEMENTARY SCHOOL MOVEMENT - PE
3 Units
Two hours lecture and
Two hours activity plus one hour assigned per week.
CSU, CSU GE
This course is designed to acquaint the prospective elementary school teachers with physical education programs in grades K-6. The course includes observation, visitation, and actual teaching field work at an elementary school. The campus laboratory hours include methods, skills, and activities used in teaching elementary physical education. The class is recommended for elementary education majors and recommended for recreation and physical education majors.

PE 234 C  CONTEMPORARY PERSONAL HEALTH
3 Units
Three hours lecture per week.
Credit by Examination
UC/CSU, AA GE, CSU GE
The course explores advances in the medical science field as they relate to personal health and dispels myths and misconceptions. Health issues that will be covered in the course are stress management, substance abuse, alcoholism, smoking as an addiction, sexuality, marriage, birth, sexually transmitted diseases, nutrition, cancer, aging and death, and obesity.

PE 235 C  FIRST AID, CPR & EMERGENCIES
3 Units
Three hours lecture per week.
UC/CSU, CSU GE
This course includes the theory and implementation of the skills necessary in response to an emergency. Successful completion of the course will qualify the student for the American Red Cross “Responding to Emergencies” First Aid Certificate, Adult, Child and Infant CPR Certificates and Automated External Defibrillation Certificate. Costs may include materials for the construction of a First Aid Kit. There is a required $5.00 Red Cross Service Fee – PAYABLE AT REGISTRATION.

PE 236 C  PREV & CARE/ATHLETIC INJURIES
3 Units
Two hours lecture and
Three hours laboratory per week.
UC/CSU
This course is designed for future athletic trainers, coaches, and physical therapists in the field of sports medicine. The course concentrates on the prevention, evaluation, treatment and rehabilitation of athletic injuries. Methods of taping and the use of training room equipment will also be covered.

PE 237 C  LIFESAVING
1 Unit  (May be taken for credit 4 times)
One hour lecture and
One hour laboratory per week.
UC/CSU, CSU GE
Prerequisite: A minimum of 15 years of age, the ability to swim continuously 500 yards and complete a 7 to 10 feet surface dive. This course is designed to develop and perfect the basic swimming strokes needed to successfully execute the various lifesaving skills. Upon completion of the class, a student who successfully passes the written and practical exams will be qualified to be certified for an American Red Cross Lifeguard Training, First Aid, and CPR for the Professional Rescuer. $5.00 Materials Fee – PAYABLE AT REGISTRATION.
PE 238 C  WATER SAFETY INSTRUCTION
2 Units
One hour lecture and
Two hours activity per week.
UC/CSU
Prerequisite: 17 years of age minimum, American Red Cross pre-course written and skills test. Advisory: Competency in swimming, diving, and water safety skills. This American Red Cross course will prepare instructor candidates to teach a variety of American Red Cross swimming and water safety courses to people of all ages. Upon satisfactory completion, the student will receive an American Red Cross Water Safety Instructor certificate. This class does not meet the requirements for P.E. activity classes. $5.00 Materials Fee – PAYABLE AT REGISTRATION.

PE 239 C  SKIN AND SCUBA DIVING
3 Units
Two hours lecture and
Three hours activity per week.
UC Credit Limitation/CSU
Prerequisite: Qualification as an intermediate/advanced swimmer. This course is designed to develop the knowledge of skin and SCUBA diving. The class will place emphasis on safety, skill development, psychological adjustments and cardiovascular conditioning. Upon successful completion of the class, the student will be certified as an N.A.U.I., Open Water I, SCUBA diver. The student is responsible for equipment rentals and boat fees, as well as purchasing some basic personal gear. This class does not meet the requirement for P.E. activity classes.

PE 240 C  SPORTS OFFICIATING
3 Units (May be taken for credit 2 times)
Two hours lecture and
Two hours laboratory plus one hour assigned per week.
UC/CSU
This course provides practical experience with an emphasis on knowledge and interpretation of the rules of sporting events. The rules and mechanics of officiating basketball, baseball, softball, volleyball and other sports will be covered. This course can be used for recreation majors, physical education majors, and people involved in community athletic organizations. The course will also explore avenues of employment related to sports officiating.

PE 242 C  WHEELCHAIR ATHLETICS
2 Units (May be taken for credit 4 times)
One hour lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU
Prerequisite: Entry into this class will be based on the student's previous medical history. The course includes instruction and participation in the fundamentals of the spectrum of wheelchair athletics. The course is expressly designed for, but not limited to, those students with permanent disability of the lower extremities who are therefore unable to participate in regular able-bodied athletics. The emphasis is on rules, safety, general awareness of wheelchair athletic alternatives with specific skill development in wheelchair basketball and wheelchair tennis leading to competition in California and U.S. wheelchair basketball and tennis programs.

PE 244 C  HUMAN PERFORMANCE
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE
This course provides guidelines for lifetime fitness using a combined approach of exercise physiology, nutrition, and biomechanics. Students will develop a working knowledge of physiological adaptations to aerobic and anaerobic exercise, of nutritional programs to achieve and maintain ideal body weight, and of desirable lifestyle management behaviors to improve wellness and human performance.

PE 247 C  SPORTS MANAGEMENT
3 Units
Two hours lecture and
Three hours activity per week.
CSU
This course consists of how to organize, manage, plan, staff, direct and control a sports program. The course also includes such areas as budget, facilities, scheduling, officials, transportation, public relations, parent and booster clubs, purchase and care of athletic equipment, fund raising, and marketing.

PE 248 C  PSYCHOLOGY OF SPORT
3 Units
Three hours lecture per week.
UC/CSU
This course consists of the psychological study of athletes on all levels of competition. The course includes such areas as competition, understanding coaches, goal setting, motivation, youth sports, anxiety and stress, relaxation and sport imagery, relationships, and drug abuse in sports.

PE 250 C  SPORT & UNITED STATES SOCIETY
3 Units
Three hours lecture per week.
CSU, CUL DIV
This course examines sport in the United States society and how various ethnic and under-represented groups have influenced sport participation at the local, state and national levels. Influences of other cultures outside of the United States will be reviewed and analyzed. Media influences on the perception of sport in society will be examined.

PE 252 C  INTRO TO PHYSICAL EDUCATION
2 Units
Two hours lecture per week.
UC/CSU
Introduction and orientation to physical education as a profession and as an academic discipline. Explores subdisciplines, opportunities in the field, philosophy, scientific foundation.

PE 261 C  PRO ACT - TENNIS
2 Units (May be taken for credit 2 times)
One hour lecture and
Two hours activity plus one hour assigned per week.
UC Credit Limitation/CSU
This course is designed for physical education and recreation majors. The course will include a comprehensive analysis of the principles of movement, motor skills and the strategy concepts used in tennis. Students will be responsible for performing and teaching various skills. Students must provide their own equipment.
PE 262 C  PRO ACT - VOLLEYBALL (Coed)
2 Units (May be taken for credit 2 times)
One hour lecture and
Two hours activity plus one hour assigned per week.
UC Credit Limitation/CSU
This course is designed for men and women physical education and recreation majors. This class will emphasize development and improvement of fundamental volleyball skills. Course content will include strategy and team organization through participation, analysis of rules, instructional procedures and coaching techniques.

PE 263 C  PRO ACT - WRESTLING
2 Units (May be taken for credit 2 times)
One hour lecture and
Two hours activity plus one hour assigned per week.
UC Credit Limitation/CSU
This course will include instruction and practice in the fundamental wrestling techniques basic to successful performance in amateur wrestling. The class will include all aspects of offense, defense and additional areas such as equipment, budget, scheduling, and scouting.

PE 265 C  INTRAMURAL MANAGEMENT
2 Units (May be taken for credit 4 times)
One hour lecture and
Three hours laboratory per week.
CSU
This course will emphasize effective management skills for an intramural program. The class will include group organization, promotion and supervision of campus intramural activities.

PE 266 C  THEORY OF COACHING BASKETBALL
3 Units
Two hours lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU
This course is designed to study the various aspects of coaching basketball. The emphasis of the class will be on the theory of how to organize a basketball program activity from start to finish of a season. The development of individual/team skills both offensive and defensive will be examined. The lab consists of scouting and/or coaching basketball.

PE 267 C  THEORY OF COACHING BASEBALL
3 Units
Two hours lecture and
Three hours activity per week.
UC Credit Limitation/CSU
This course includes the study of various aspects of coaching baseball. The emphasis of the class will be on the theory of how to organize a baseball program, develop individual skills, and coach offensive and defensive teamwork. The lab consists of scouting and coaching baseball.

PE 268 C  PRO ACT - WEIGHT TRAINING
2 Units (May be taken for credit 2 times)
One hour lecture and
Two hours activity plus one hour assigned per week.
UC Credit Limitation/CSU
This course is a study of weight training theory with emphasis on kinesiology and biomechanical principles. The class will provide the student with an understanding of various anaerobic training techniques and their applications.

PE 280 C  PRO ACT - BASEBALL
2 Units (May be taken for credit 2 times)
One hour lecture and
Two hours activity plus one hour assigned per week.
UC Credit Limitation/CSU
This course is designed to emphasize the learning of skills and fundamentals of the game of baseball. The class will include activities that will develop the psychological as well as the physical preparation of a baseball player. The theory and practical experiences related to offensive and defensive phases of the game will also be covered.

PE 281 C  PRO ACT - BASKETBALL
2 Units (May be taken for credit 2 times)
One hour lecture and
Two hours activity plus one hour assigned per week.
UC Credit Limitation/CSU
This course is designed for physical education and recreation majors. The course will include a comprehensive analysis of the principles of movement, motor skills, and the strategy concepts used in basketball.

PE 282 C  PRO ACT - SOFTBALL
2 Units (May be taken for credit 2 times)
One hour lecture and
Two hours activity plus one hour assigned per week.
UC Credit Limitation/CSU
This course is designed for physical education and recreation majors. The course will emphasize development and improvement of fundamental skills, including strategy, team organization, rules and instructional procedures.

PE 284 C  PRO ACT - SOCCER
2 Units (May be taken for credit 2 times)
One hour lecture and
Two hours activity plus one hour assigned per week.
UC Credit Limitation/CSU
This course is designed for physical education majors. The course will include a comprehensive analysis of fundamental skills, game strategy, team offense and team defense through participation, analysis of rules and instructional procedures.

PE 286 C  PRO ACT - WEIGHT TRAINING
2 Units (May be taken for credit 2 times)
One hour lecture and
Two hours activity plus one hour assigned per week.
UC Credit Limitation/CSU
This course is a study of weight training theory with emphasis on kinesiology and biomechanical principles. The class will provide the student with an understanding of various anaerobic training techniques and their applications.

PE 288 C  PHYSICAL EDUCATION SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to sixty hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This class will utilize a lecture/lab activity approach to various topics in physical education. A variety of classes will be offered in order to introduce able bodied students to new experiences in physical education. Fees may be required – PAYABLE AT REGISTRATION.
PHSC 117 C  COSMOLOGY
1 Unit
One hour lecture per week.
CSU
Prerequisite: ASTR 116 C or PHSC 101 C. This course includes a study of black holes, galactic evolution, methods and assumptions of cosmology, the big bang, geometry and models, the inflationary universe, anthropic principle, destiny of the universe, particle theory, and grand unification.

PHSC 196 C  FIELD STUDIES IN PHYS SCI
2 Units (May be taken for credit 4 times)
One hour lecture and
Three hours laboratory per week.
CSU
This course involves lecture and field study in the physical sciences. During a given semester, multiple sections may be offered to different study areas or for different selected topics. Study areas include, but are not limited to, star gazing in the Santa Ana mountains or Anza area; viewing museums, planetaria, observatories; or listening to lectures. Field trips are required.

PHSC 298 C  PHYSICAL SCIENCE SEMINAR
1⁄2 - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This course is for students who wish to increase their knowledge in various fields in the physical sciences. Various topics may be offered, such as the metric system of measurement, observational astronomy, etc., according to the interests of the instructor and students as stated in the class schedule. Consult the class schedule to verify unit credit and topics for a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

PHSC 299 C  PHYS SCI INDEP STUDY
1⁄2 - 2 Units (Variable Unit Class) (May be taken for credit 4 times)
Three hours laboratory or project research per week for maximum credit.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. This course is for able students who have demonstrated interest and capability for increased knowledge of physical science through individual study, small group discussion conferences, or special laboratory project work. Independent laboratory or field study projects with staff supervision may be approved with written reports required.
Physical Therapy

**PHYSICAL THERAPY TRANSFER PROGRAM**

Professional programs such as dentistry, medicine, pharmacy, optometry, physician assistant, physical therapy and veterinary medicine are most often graduate programs that require a bachelor degree or significant preparation prior to entering the program. The appropriate preparation varies according to the school and specific program. Students are advised to meet with a counselor to discuss options for their bachelor degree and the lower division requirements for the program and school of their choice.

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**Civilization**

**PHYSICAL THERAPY TRANSFER PROGRAM**

Students should consult a counselor or [www.assist.org](http://www.assist.org) for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

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**Physics (PHYS)**

**PHYS 021 C PROBLEM SOLVING-MECHANICS**

1 Unit

One hour lecture per week.
Pass/No Pass
NON-DEGREE CREDIT

Advisory: Students are recommended to be enrolled in PHYS 201 C or PHYS 210 C. This course is designed as a problem solving session and examination of the concepts in classical mechanics as taught in the first semester of College Physics (PHYS 201 C) or Physics (PHYS 210 C).

**PHYS 022 C PROBLEM SOLVING-ELECTRICITY**

1 Unit

One hour lecture per week.
Pass/No Pass
NON-DEGREE CREDIT

Advisory: Students are recommended to be enrolled in PHYS 202 C or PHYS 211 C. This course is designed as a problem solving session and examination of the concepts in electricity, magnetism, and optics as taught in the second semester of College Physics (PHYS 202 C) or Physics (PHYS 211 C).

**PHYS 023 C PHYS 221 C PROBLEM SOLVING**

1 Unit

One hour lecture per week.
Pass/No Pass
NON-DEGREE CREDIT

Corequisite: PHYS 221 C. This course is designed as a problem solving session and examination of the concepts in classical mechanics as taught in the first semester of General Physics (PHYS 221 C).

**PHYS 024 C PHYS 222 C PROBLEM SOLVING**

1 Unit

One hour lecture per week.
Pass/No Pass
NON-DEGREE CREDIT

Corequisite: PHYS 222 C. This course is designed as a problem solving session and examination of the concepts in electricity and electromagnetism optics as taught in the second semester of General Physics (PHYS 222 C).

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**Physics**

*Division of Science/Engineering/Mathematics*

*Division Dean – Richard Fee*

*Faculty*

Ron Armale
Michael Frey
Brinda Subramaniam

*Counselors*

Deidre Porter

**PROGRAM LEARNING OUTCOMES (PLOs)**

The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.
PHYS 130 C  PRINCIPLES OF PHYSICS
4 Units
Three hours lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 020 C with a grade of "C" or better. This course provides an introduction to the basic concepts, principles, and laws of physics with major emphasis upon their practical importance and application towards understanding natural phenomena. Laboratory work includes experiments in mechanics, heat, sound, electricity, and optics. This is a general education course in the physical science area. The course is not open for credit to students with previous college physics credit. No UC credit if taken after PHYS 201 C or PHYS 221 C.

PHYS 201 C  COLLEGE PHYSICS
4 Units
Three hours lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 142 C and PHYS 130 C, with grades of "C" or better. This course provides an introduction to the basic concepts, principles, and laws of physics with major emphasis upon their practical importance and application towards understanding natural phenomena. Laboratory work includes experiments in mechanics, heat, sound, electricity, and optics. This is a general education course in the physical science area. The course is not open for credit to students with previous college physics credit. No UC credit if taken after PHYS 201 C or PHYS 221 C.

PHYS 202 C  COLLEGE PHYSICS
4 Units
Three hours lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: PHYS 201 C, with a grade of "C" or better. This is the second course in a two-semester physics program designed primarily for students planning to major in biological sciences, medical/dental fields, architecture, agriculture, psychology, law, and similar professional fields. The course includes topics from classical mechanics and Newton’s Laws of motion, conservation laws, rotational dynamics, properties of matter, fluids, heat, thermodynamics, vibrations and waves.

PHYS 210 C  PHYSICS
4 Units
Three hours lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: PHYS 130 C or High School Physics and MATH 150AC, with a grade of "C" or better, or concurrent enrollment in MATH 150AC. This is a calculus-based course designed for students majoring in the life sciences. The course covers Newtonian mechanics, waves and basic thermodynamics.

PHYS 211 C  PHYSICS
4 Units
Three hours lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: PHYS 210 C with a grade of "C" or better and completion of or concurrent enrollment in MATH 150BC. This is the second semester of a calculus-based course designed for students majoring in the life sciences. The course covers topics in electricity and magnetism, optics, atomic physics and quantum physics.

PHYS 221 C  GENERAL PHYSICS
4 Units
Three hours lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: PHYS 130 C with a minimum grade of "C" (or high school physics with a minimum grade of "B") and MATH 150AC, with a minimum grade of "C"; and completion of or concurrent enrollment in MATH 150BC. Advisory: Recommended background PHYS 201 C and either ENGR 110 C or ENGT 110 C. This is the first course of a three-semester introductory physics program for students majoring in physics, chemistry, geology, engineering (all areas), mathematics and other related fields. Topics studied include mechanics, oscillations, properties of matter, and fluids. Problems and derivations require knowledge of differential and integral calculus.

PHYS 222 C  GENERAL PHYSICS
4 Units
Three hours lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU, CSU GE, IGETC
Prerequisite: MATH 150BC and PHYS 221 C, with grades of "C" or better. Advisory: MATH 250AC. This course is part of a three-semester program of introductory calculus based physics for students majoring in physics, chemistry, geology, engineering (all specializations), computer science, mathematics and other related fields. Topics covered are basic laws of electricity and magnetism including electrostatics, current, magnetic fields, electromagnetic induction, DC circuits, AC circuits, and electromagnetic waves.

PHYS 223 C  GENERAL PHYSICS
4 Units
Three hours lecture and
Three hours laboratory per week.
UC Credit Limitation/CSU, CSU GE, IGETC
Prerequisite: PHYS 221 C, and MATH 150BC, with grades of "C" or better. Advisory: Concurrent enrollment in MATH 250AC or MATH 250BC. This course is part of a three-semester program of introductory calculus based on physics for students majoring in physics, chemistry, geology, engineering (all specializations), mathematics, and other related fields. It may be taken before or after PHYS 222 C. Topics covered include fluid mechanics, oscillations and waves, thermodynamics and kinetic theory, geometrical and physical optics, special theory of relativity, introduction to quantum mechanics, atomic physics, and nuclear physics.
Political Science

Division of Social Science

Division Dean – Nina DeMarkey

Faculty
Gloria Badal
Eapen Peter Mathews

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

POLITICAL SCIENCE TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Political Science (POSC)

POSC 100 C  UNITED STATES GOVERNMENT
3 Units
Three hours lecture per week.
Credit by Examination
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course covers the political theories and practices of United States Government at national, state and local levels. Duplicate credit not granted for POSC 100 HC.

POSC 100HC  HONORS UNITED STATES GOVERNMENT
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an enhanced college level course enhanced for honor students. It covers the political theories and practices of the United States Government at national, state and local levels. Duplicate credit not granted for POSC 100 C.

POSC 101 C  GENDER AND AMERICAN POLITICS
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an introduction to the study of American politics at the national, state, and local levels with an emphasis on the role of gender. It examines women's participation in American politics from the perspective of race, class, and ethnicity. Contemporary political analysis will focus on women's political agenda from the 1960's to the 21st century, centering around issues such as equal pay, sex discrimination in education and the work place, affirmative action, reproductive rights, sexual choice, domestic violence, and increasing the representation of women in local and national political arenas. Duplicate credit not granted for POSC 100 C or POSC 100HC.

POSC 120 C  POLITICAL THEORY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a survey of Western political theory from ancient Greece to the Modern Age. It shows how political theory shapes current institutions and ideologies in the United States, Europe, and other countries around the world.

POSC 130 C  POLITICAL COMMUNICATION
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
This course covers the theory and application of rhetorical criticism to contemporary and political communication events. Stress will be placed on the rhetorical/political strategies used to advance concepts and policy options.

POSC 135 C  CAMPAIGNS, PARTIES & ELECTIONS
3 Units
Three hours lecture per week.
CSU
Advisory: Eligibility for ENGL 100 C. This course is an analysis of the challenges faced by the Democratic and Republican parties as they are being replaced by campaign management firms (CMF’s), Political Action Committees (PAC’s) and electronic media advertising. Special emphasis is given to critical analysis of the presidential election campaign process, and of the resulting implications of the democratic process in the United States.

POSC 200 C  INTRODUCTION TO POLITICAL SCIENCE
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an introduction to the study of political science. It explores the many aspects of politics, examining its relationship to morality, culture, economics, justice and international affairs both theoretically and practically. As an introductory course, it includes elements from the major sub-disciplines of political science, including American politics, comparative politics, and international relations.
POSC 209 C  URBAN POLITICS
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC, CUL DIV
This course is a concentrated study of urban America with particular emphasis on the challenging problems facing the country's metropolitan areas. The approach will be interdisciplinary in order to facilitate conceptual learning and a balanced understanding of the urban dilemma. Major areas of study will include the history and development of urban United States intergovernmental relations, poverty, racial and ethnic relations, pollution, crime, public services, education, planning and renewal.

POSC 210 C  CONTEMPORARY POLITICAL ISSUES
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an intensive study of issues associated with the concepts of democracy, federalism, separation of powers, judicial review, preservation of individual rights and related topics.

POSC 215 C  COMPARATIVE POLITICS
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a comparative study of the political theories and practices of selected European and non-Western political systems. Also included in the course is a careful analysis of the dynamics of political change and its relationship to economic and social development.

POSC 216 C  POLITICS OF THE MIDDLE EAST
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an introduction to the political, social, economic and ideological foundations of the Middle East in general and major states in the region in particular. Emphasis is placed on the political and economic developments in Egypt, Iraq, Iran, Israel, and Saudi Arabia. Topics covered include: introduction to the land, peoples, cultures, and religions; colonialism and the emergence of modern states following World War I; Western influence and Islamic revivalism; regional conflicts (Arab-Israeli, Iran-Iraq, Gulf Wars); the politics and economics of oil; U.S. based ethnic interest groups and their influence on U.S. foreign policy; patronalism and militarism; liberalization and democratization.

POSC 220 C  INTRODUCTION TO PUBLIC ADMINISTRATION
3 Units
Three hours lecture per week.
CSU
This course will concentrate on giving the student a background in fiscal policy (budgeting), personnel, policy-making, and general organization.

POSC 230 C  INTERNATIONAL RELATIONS
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a study of relations of nations including the function of power, diplomacy, international law and organizations, and economic factors. Special emphasis will be placed on such concepts as war, nationalism, imperialism, ideological conflict and collective security, and how these concepts affect American foreign policy.

POSC 298 C  POLITICAL SCIENCE SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion type course developed on a particular limited problem or topic of interest to students. It is designed for students who wish to increase their knowledge of a particular interest topic which no other regular class is offered. A paper or group activity may be requested. Credit may range from ½ to 12 units. Consult the class schedule for the offerings a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

POSC 299 C  POLITICAL SCIENCE INDEPENDENT STUDY
1 Unit (May be taken for credit 4 times)
Varying hours of scheduled conferences per week according to instructor.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. Independent study is for able students who wish to extend their knowledge of a particular area through individual research and study. It is thought that topics might develop out of a curiosity stimulated in a regular class. The student would then contact the supervising instructor to develop a contract for his/her particular interest so that they could learn more regarding their special topic.

Portuguese

Division of Language Arts

Division Dean – Eldon Young

Faculty
A. Fernando Oliveira

Counselors
Velia Lawson
Daniel Pelletier
Therese Mosqueda-Ponce

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.
Portuguese (PORT)

PORT 101 C  ELEMENTARY PORTUGUESE I
5 Units
Five hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE
The course focuses on the four major skills of language learning—listening comprehension, speaking, reading, and writing—and the grammar and vocabulary necessary to acquire these skills. Included is an introduction to customs, culture, and civilization of Brazil, Portugal and other Portuguese-speaking countries.

PORT 102 C  ELEMENTARY PORTUGUESE II
5 Units
Five hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC
Prerequisite: PORT 101 C with grade of “C” or better or one year of high school Portuguese with a grade of “C” or better. The course continues to emphasize the acquisition of basic skills in pronunciation, listening, speaking, reading, and writing. Students will increase their knowledge of the culture, history, and geography of Portuguese speaking countries through lectures, slides, films and reading and writing assignments.

Pre-Professional Programs

Dentistry
Medicine
Optometry
Pharmacy
Physician Assistant
Physical Therapy
Veterinary Medicine

Professional programs such as dentistry, medicine, pharmacy, optometry, physician assistant, physical therapy and veterinary medicine are most often graduate programs that require a bachelor degree or significant preparation prior to entering the program. The appropriate preparation varies according to the school and specific program. Students are advised to meet with a counselor to discuss options for their bachelor degree and the lower division requirements for the program and school of their choice.

Psychiatric Technology

Division of Health Science

Division Dean – John Sciacca

Faculty
Jeannie Billie
Jane Boyce
Joseph Franks
Christina Johannsen
Marcus Marquardt
Jaime Ramos
Noemi Rios-Miranda

Counselors
Kelly Carter
Denise Vo

PROGRAM LEARNING OUTCOMES (PLOs)

Psychiatric Technology

A student who completes the Psychiatric Technology program will be able to:
1. Show effective communication with the patient/client, family, health care team, and community.
2. Identify and prioritize nursing diagnoses through assessment/observation of the patient/client’s physical condition, behavior and through interpretation/analysis of information obtained from the patient, client record and others, including members of the health care team.
3. Create a plan of care in collaboration with the patient/client which ensures that direct and indirect nursing, psychiatric care and habilitation training provided for the patient/client’s safety, comfort, hygiene, and protection, as well as disease prevention, health promotion, and restorative measures.
4. Perform skills essential to implement safe and effective care to individuals with nursing needs, psychiatric disorders and/or developmental disabilities that involve explaining health treatment, and the teaching patient/client and the health care team members; modifies/progresses plan as needed.
5. Evaluate the expected outcomes of the plan of care through observation of the client’s physical condition, behavior, signs and symptoms of illness, reactions to treatment, and through communication with the patient/client and the health care team members; modifies/progresses plan as needed.
6. Advocate for the patient/client by initiating action to improve health care and to make informed decisions.
7. Practice according to ethical and legal professional standards as set forth by the Cypress College Psychiatric Technician program and the California Board of Vocational Nurses and Psychiatric Technicians.
8. Evaluate personal strengths and growth needs and incorporates these into a plan for professional development.
PROGRAM OBJECTIVES
This program aims to prepare a student to meet the requirements for licensure as a Psychiatric Technician in the state of California. A Psychiatric Technician is a licensed member of the professional healthcare services team working with people who are emotionally or developmentally disabled. Employed by private and state mental hospitals, developmental centers, and many community facilities. Psychiatric Technicians will also find a variety of jobs available in the fields of prisons/corrections and human services. These include substance abuse programs, forensic facilities, special education and many other areas promoting mental health. There are career advancement opportunities available in the areas of counseling, education, nursing, and vendorization of services.

The program is accredited by, and conforms to, the regulations of the California Board of Vocational Nursing and Psychiatric Technicians. Upon successful completion of the program, graduates are eligible to take the State Board Licensure Examination.

MINIMUM STANDARDS FOR APPLICANTS
1. Graduation from high school, completion of the General Education Development (GED) test with a minimum score of 45, or passing the high school proficiency examination. Possession of an associate or higher degree satisfies this requirement.
2. Completion of ENGL 058 C/ESL 185 C or a comparable course with a grade of "C" or better, or submission of test scores that indicate eligibility for ENGL 060 C/ESL 186 C.
3. Completion of BIOL 160 C and PSY 101 C with a "C" or better or transcript showing courses in the program.

APPLICATION PROCEDURES
1. Meet with a counselor to determine fulfillment of the minimum standards.
2. Complete the Psychiatric Technician program application, which may be obtained from the Health Science Application Office, or the Health Science Division office.
3. Attach supporting documentation. This includes copy of high school diploma, GED, or college degree; proof of meeting the English requirement; transcripts of academic work completed at other schools, and proof of work in progress (progress note from instructor).

SELECTION CRITERIA
1. Twenty-four (24) students are selected for admission each Fall and Spring semester. The number of applicants usually exceeds available seats.
2. Applicants who meet the minimum standards will be assigned points based on required prerequisites completed or in progress. Points will be assigned only when supported by appropriate documentation.
3. Selection criteria is subject to change. See a Health Science Counselor for current selection criteria.
4. Upon selection for the program but prior to the start of classes, the candidate will be required to obtain a physical examination and required immunizations.
5. Students selected for admission to the program must obtain a Professional Provider level cardiopulmonary resuscitation (CPR) card prior to attending clinical training and must maintain current certification throughout the program.
6. If you have been convicted of a criminal offense, your eligibility to enroll in the program may be affected. All students will be fingerprinted and cleared by the FBI and Department of Justice (DOJ) before enrolling in PT 110 C.

ASSOCIATE IN SCIENCE DEGREE

PSYCHIATRIC TECHNOLOGY
Program Code: 1S03790
While the state of California does not require an Associate Degree for licensure as a Psychiatric Technician, the student may elect to earn one. To receive an Associate in Science Degree, the student must complete all Psychiatric Technician course requirements with a minimum grade of "C". At least 50 percent of the Psychiatric Technician course requirements must be completed at Cypress College. A minimum of 19 additional General Education/Graduation Requirements must be earned with an overall GPA of 2.0.

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.

Required courses are listed in suggested sequence:

Note: A current "C" cardiopulmonary resuscitation (CPR) certification must be maintained by all students admitted to the program.

Prerequisite Courses:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*BIOL 160 C</td>
<td>Integrated Medical Science</td>
<td>3</td>
</tr>
<tr>
<td>*PSY 101 C</td>
<td>General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 110 C</td>
<td>Nursing Science I</td>
<td>7</td>
</tr>
<tr>
<td>PT 115 C</td>
<td>Nursing Science II</td>
<td>7</td>
</tr>
<tr>
<td>*PSY 139 C</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 120 C</td>
<td>Developmental Disabilities I</td>
<td>7½</td>
</tr>
<tr>
<td>PT 125 C</td>
<td>Developmental Disabilities II</td>
<td>6½</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 130 C</td>
<td>Mental Disabilities I</td>
<td>6½</td>
</tr>
<tr>
<td>PT 135 C</td>
<td>Mental Disabilities II</td>
<td>7½</td>
</tr>
</tbody>
</table>

Total Units Required 51

Electives:

<table>
<thead>
<tr>
<th>course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*COUN 140 C</td>
<td>Educational Planning</td>
<td>½</td>
</tr>
<tr>
<td>HS 080 C</td>
<td>Selected Topics in Nursing and Allied Health</td>
<td>1</td>
</tr>
</tbody>
</table>

*Courses may be taken without official acceptance into the program. All other required courses must be taken after official acceptance.

All general education units may be taken prior to enrollment in the program or at the completion of the course work required by the BVNPT for licensure eligibility.

PSYCHIATRIC TECHNOLOGY
CERTIFICATE
Program Code: 1C21116
This program aims to prepare a student to meet the requirements for licensure as a Psychiatric Technician in the state of California. A Psychiatric Technician is a licensed member of the professional healthcare services team working with people who are emotionally or developmentally disabled. Historically employed by private and state mental hospitals, developmental centers, and many community facilities. Psychiatric Technicians will increasingly find a variety of jobs available in the fields of prisons/corrections and human services. These include day care centers, substance abuse programs, forensic facilities, special education and many other areas promoting mental health. The program is accredited by and conforms to the regulations of the California Board of Vocational Nurses and Psychiatric Technicians. Upon successful completion of the program, graduates are eligible to take the State Board Licensure Examination.
Psychiatric Technology (PT)

PT 085 C  PSYCHIATRIC TECHNICIAN - WORK EXPERIENCE
1 - 4 Units (Variable Unit Class) (May be taken for credit 4 times)
One hour lecture and Five hours (minimum) related employment per week.
Pass/No Pass/Letter Grade Option
Prerequisite: Concurrent enrollment in Psychiatric Technician Program. This course provides practical work experience for students caring for individuals with developmental disabilities in community settings.

PT 110 C  NURSING SCIENCE I
7 Units
Four and one-half hours lecture and Seven and one-half hours laboratory per week.
CSU
Prerequisite: Acceptance into the Psychiatric Technology Program. This course presents fundamental concepts and scientific principles of nursing care. It begins to prepare students for the safe administration of medications by introducing them to the modern systems of measurement. Principles discussed in lecture will be applied in the clinical setting.

PT 115 C  NURSING SCIENCE II
7 Units
Four and one-half hours lecture and Seven and one-half hours laboratory per week.
CSU
Prerequisite: PT 110 C. This course explores the disease process of medical/surgical conditions relative to etiology, pathology, and treatment modalities. The therapeutic use of medication, the principles of nutrition, and the application of the nursing process are presented in classroom instruction and implemented in clinical practice.

PT 120 C  DEVELOPMENTAL DISABILITIES I
7½ Units
Four and one-half hours lecture and Nine hours laboratory per week.
CSU
Prerequisite: PT 115 C and PSY 139 C. This course explores the philosophy and principles directing the delivery of care and service to persons with developmental disabilities residing in California. Students learn how to teach self-help and independent living skills to persons with developmental disabilities.

PT 125 C  DEVELOPMENTAL DISABILITIES II
6½ Units
Three hours lecture and Ten and one-half hours laboratory per week.
CSU
Prerequisite: PT 120 C. This course focuses on the cause and treatment of developmental disabilities. The theory and application of behavioral techniques advocating only the presentation and removal of positive reinforcement is presented. Pharmacological interventions and special dietary needs are also covered.

PT 130 C  MENTAL DISABILITIES I
6½ Units
Three hours lecture and Ten and one-half hours laboratory per week.
CSU
Prerequisite: PT 125 C. This course prepares the student to intervene at the primary and secondary levels of treatment in the care of individuals with mental disabilities. Primary interventions include prevention of mental disabilities through the education of individuals at risk, while secondary interventions are aimed at identified clients during periods of increased stress.

Psychology

Division of Social Science

Division Dean – Nina DeMarkey

Faculty
Susan Johnson
Randall Martinez
Carlos Sandoval
Brandy Young

Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier
PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

ASSOCIATE IN ARTS DEGREE

PSYCHOLOGY

Program Code: 1A16600

The Associate in Arts Degree in Psychology will provide students with an introduction to the field including its scientific foundations and applied areas. Students completing this degree will be prepared and motivated for further academic study in the field. The degree begins curriculum that can lead to a baccalaureate degree in Psychology at a four-year college or university. The degree is also a terminal two year option of study for students interested in psychology who do not wish to pursue a baccalaureate degree in the field. Students successfully completing an Associate in Arts Degree in Psychology will acquire a fundamental knowledge base of psychology, learn basic knowledge and skills in data analysis and research methods, and possess a basic understanding of areas that have an interdisciplinary association to psychology. 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. Graduate study is important in Psychology. Those holding a Master’s or Doctoral degree may find employment in teaching, research, private practice, or welfare and health related fields. Those without a graduate degree will find limited career opportunity in direct areas of Psychology. For information on specific university requirements, please consult with your counselor or visit the Transfer Center.

The Associate in Arts Degree in Psychology will provide students with an introduction to the field including its scientific foundations and applied areas. The intent is to prepare students for further academic study in the field. The degree begins curriculum that can lead to a baccalaureate degree in Psychology at a four-year college or university. At the baccalaureate level students will continue an education in various areas of psychology including research methods, cognition, psychobiology, development, environmental psychology, organizational psychology, clinical psychology, and educational psychology. The degree will also be a terminal two year option of study for students interested in psychology who do not wish to pursue a baccalaureate degree in the field.

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 requirement (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 percent 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 are listed in suggested sequence:
Eleven (11) to fourteen (14) units from the following Psychology required courses.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*PSY 101 C</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 161 C</td>
<td>Probability &amp; Stats-Social Sci</td>
<td>3</td>
</tr>
<tr>
<td>PSY 202 C</td>
<td>Research Methods in Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 221 C</td>
<td>The Brain &amp; Behavior (if transferring to</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CSU Long Beach)</td>
<td></td>
</tr>
</tbody>
</table>

Three (3) to six (6) units from the following Psychology elective courses to total 20 units for the major.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 110 C</td>
<td>Applied Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 120 C</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>PSY 139 C</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 145 C</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 212 C</td>
<td>Understanding Childhood Trauma</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>And the Effects of Abuse</td>
<td></td>
</tr>
<tr>
<td>PSY/SOC 215 C</td>
<td>Parenting Skills</td>
<td>3</td>
</tr>
<tr>
<td>PSY 221 C</td>
<td>The Brain and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSY 222 C</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY/SOC 237 C</td>
<td>Cross-Cultural Relationships</td>
<td>3</td>
</tr>
<tr>
<td>PSY 251 C</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY/HUSR 255 C</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
</tbody>
</table>

Three (3) to six (6) units from the following elective courses to total 20 units for the major.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 102 C</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 104 C</td>
<td>Comparative Cultures</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 102 C</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 103 C</td>
<td>Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 103 C</td>
<td>Chemistry in a Changing World</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CHEM 103HC</td>
<td>Honors Chem in a Changing World</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CIS 132 C</td>
<td>Spreadsheet – Excel for Windows</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 100 C</td>
<td>American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ETHS 100HC</td>
<td>Honors American Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>GEOG 100 C</td>
<td>World Geography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>GEOG 100HC</td>
<td>Honors World Geography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>**GEOG 160 C</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 100 C</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 170 C</td>
<td>Logic and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 172 C</td>
<td>Critical Thinking/Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 176 C</td>
<td>Philosophy of Science and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 269 C</td>
<td>Philosophy, Human Sexuality and Religion</td>
<td>3</td>
</tr>
<tr>
<td>PE 248 C</td>
<td>Psychology of Sport</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 C</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>SOC 101HC</td>
<td>Honors Intro to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 225 C</td>
<td>Sociology of Women</td>
<td>3</td>
</tr>
<tr>
<td>SOC 250 C</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>SOC 275 C</td>
<td>Marriage and Family</td>
<td>3</td>
</tr>
<tr>
<td>SOC 282 C</td>
<td>Introduction to Criminology</td>
<td>3</td>
</tr>
</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Psychology exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

** A score of 3 or higher on the Advanced Placement (AP) Geography (Human) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

PSYCHOLOGY TRANSFER PROGRAM

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.
Psychology (PSY)

PSY 101 C  GENERAL PSYCHOLOGY
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a scientific consideration of the psychological foundations of behavior. It will investigate psychological development, motivation, sensation, perception, learning, thinking, language, psychological measurement, and principles of mental illness and mental health. Duplicate credit not granted for PSY 101HC.

PSY 101HC  HONORS GENERAL PSYCHOLOGY
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course, enriched for honors students, is a scientific introduction to the major areas of psychology. These areas include research methodology, consciousness, cognition, memory, perception, sensation, motivation, emotion, learning, development, personality, abnormal psychology, and physiological psychology. Students will examine, demonstrate and critique principles, theories, and research on human cognition, emotion, behavior, and conscious experience. The course uses lecture, multimedia presentation, class discussion, online communication, simulations, online resources, and research projects to enhance the learning experience of students. Duplicate credit not granted for PSY 101 C.

PSY 110 C  APPLIED PSYCHOLOGY
3 Units
Three hours lecture per week.
CSU, CSU GE
This course examines the principles of psychology and its research as it applies to everyday living. These principles are explored in the context of college life, interpersonal relationships, work and career. Focus areas include adjustment, health, stress, sexuality and psychological disorders. Applied Psychology is not the same as PSY 101 C General Psychology and cannot be taken in place of PSY 101 C.

PSY 120 C  HUMAN SEXUALITY
3 Units
(Same as SOC 120 C)
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an overview of the psychological, sociological and psychobiological aspects of human sexuality. The course takes an interdisciplinary approach dealing with the entire area of human sexual behavior viewed in the context of the total integrated personality. Duplicate credit not granted for SOC 120 C.

PSY 139 C  DEVELOPMENTAL PSYCHOLOGY
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, CSU GE, IGETC
This is a study of emotional, intellectual, social and physical growth patterns from conception to death. It emphasizes an integrated approach to each life phase. It also examines the influence of heredity and environment in the life span. The study also includes applicable theories of development.

PSY 145 C  CHILD PSYCHOLOGY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course explores the physical, cognitive, communicative/linguistic, and socio-emotional development of the child from conception through adolescence across diverse cultures.

PSY 161 C  PROBABILITY & STATISTICS-SOCIAL SCIENCE
4 Units
(Same as SOC 161 C)
Four hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: Math 040 C or 2 years of high school Algebra with grades of “C” or better. This course provides an introduction to fundamental statistical concepts relevant to the social sciences but applicable to all disciplines. A conceptual approach is used to introduce students to topics of descriptive and inferential statistics including sampling, probability, central tendency, variability, correlation, regression, point estimation, interval estimation, and hypothesis testing. Also introduced are non-parametric statistics, such as chi-square, and parametric statistics, such as t-tests and ANOVA. Computers and calculators will be utilized. The use of current statistical software is emphasized. Data sets and problems will be from psychology, sociology, anthropology, economics, geography, and political science. This course is open to all students who meet the prerequisite, and it is required for psychology majors. This course is strongly recommended for all social science majors. Students who receive credit for this course may not receive credit for MATH 120 C.

PSY 202 C  RESEARCH METHODS IN PSYCHOLOGY
4 Units
Three hours lecture
Two hours laboratory and
One hour problem solving/quiz per week.
UC/CSU, CSU GE, IGETC
Prerequisite: PSY 101 C and PSY/SOC 161 C. This course encompasses the technical aspects of designing and implementing research in the cognitive, behavioral and social sciences. Concepts of research are presented so that there is appropriate application of the scientific method to psychological and social research. The use of current technology in the acquisition, processing, and analysis of data is integrated into the theoretical and conceptual aspects of the research process. Emphasis is placed on proper communication and presentation of completed research.

PSY 212 C  UNDERSTANDING CHILDHOOD TRAUMA AND THE EFFECTS OF ABUSE
3 Units
Three hours lecture per week.
CSU
This course examines the causes of child abuse and traumatization, the effects of trauma, and commonly accepted ways to assist children of trauma. Trauma includes the effects of abuse, neglect, witnessing, and experiencing extraordinary events. Legal and foster care issues will also be investigated.
PSY 215 C  PARENTING SKILLS
3 Units
(Same as SOC 215 C)
Three hours lecture per week.
UC/CSU
This course is designed to build realistic expectations in parenting. Students will acquire parenting skills and deal constructively with varied aspects of child rearing. A special emphasis will be placed on reviewing contemporary discipline and guidance techniques and on exploring resources available in the community for parenting. The course includes developmental states from birth through adulthood.

PSY 221 C  THE BRAIN AND BEHAVIOR
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
Prerequisite: PSY 101 C with a minimum grade of "C". This course examines the neurophysiological processes associated with mental processes and behavior. Emphasis is placed on the structure and function of the brain and other central nervous system structures. Related processes such as the autonomic nervous system, the endocrine system and the immune system are also studied. Specific topics studied in the context of the brain include learning, sensation, perception, emotion, motivation, cognition, memory, stress, psychological disorders, and brain dysfunction.

PSY 222 C  ABNORMAL PSYCHOLOGY
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
Prerequisite: PSY 101 C with a grade of “C” or better. This course is a systematic study of psychopathology. It is concerned with consciousness expressed through behavior that is considered to be counterproductive, maladaptive, and disruptive to the individual and/or society. The course will consider disturbances of volition, thinking, and feeling. Students in this case-driven course will be required to understand the current version of the DSM and apply the multiaxial assessment to videotaped cases of actual patients. The taped cases will illustrate a specific Axis I or Axis II disorder and provide information sufficient for the student to make a clear diagnosis.

PSY 237 C  CROSS-CULTURAL RELATIONSHIPS
3 Units
(Same as SOC 237 C)
Three hours lecture per week.
UC/CSU, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course is an introduction to the psychological factors involved in cross-cultural relationships including ethnic and racial differences. It examines personal processes and individual conflicts of people from differing United States ethnic backgrounds. Varying customs, social patterns and family dynamics of major local cultural groups will be discussed within this context.

PSY 240 C  CHILD DEVELOPMENT & EDUCATION
3 Units
Three hours lecture per week.
CSU, AA GE, CSU GE
This course explores the physical, cognitive, communicative/linguistic, and socio-emotional development of the child from conception through adolescence across diverse cultures with an emphasis on the learning process. Education and teaching issues related to children are highlighted.

PSY 251 C  SOCIAL PSYCHOLOGY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Completion of PSY 101 C with a grade of “C” or better. This course examines the basic theories, concepts, and empirical findings in such areas as social perception, social cognition, prejudice, discrimination, interpersonal attraction, conformity and obedience, by-stander effects, social aggression, group dynamics, attribution theory, and development of self in the social setting.

PSY 255 C  PSYCHOLOGY OF AGING
3 Units
(Same as HUSR 255 C)
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
This course examines the biological, physiological, cognitive, personality, developmental, intimacy and sexual aspects of the ongoing aging process. Critical life issues for elders and for those who live and work with them are explored. These issues include physical health, mental health, health care policy, care giving, dependency, and positive aging strategies. Duplicate credit not granted for HUSR 255 C.

PSY 298 C  PSYCHOLOGY TRANSFER SEMINAR
1⁄2 - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion type course developed on a particular limited problem or topic of interest to students. It is designed for students who wish to increase their knowledge of a particular interest topic which no other regular class is offered. A paper or group activity may be requested. Credit may range from ½ to 12 units. Consult the class schedule for the offerings a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

PSY 299 C  PSYCHOLOGY INDEPENDENT STUDY
1 Unit (May be taken for credit 3 times)
Varying hours of scheduled conferences per week according to instructor.
UC Credit Limitation/CSU
Prerequisite. Approved Independent Study Learning Contract. Independent study is for able students who wish to extend their knowledge of a particular area through individual research and study. It is thought that topics might develop out of a curiosity stimulated in a regular class. The student would then contact the supervising instructor to develop a contract for his/her particular interest so that they could learn more regarding their special topic.
Radiologic Technology
Division of Health Science

Division Dean – John Sciaccia

Faculty
Michael Frianeza
Laura Greico
Lynn Mitts

Counselors
Kelly Carter
Denise Vo

PROGRAM GOALS
1. Students will have the knowledge and skills to competently and safely perform radiographic procedures.
2. Students will develop the skills necessary to communicate effectively.
3. Students will use critical thinking and problem solving skills.
4. Students will evaluate the importance of professional development and growth.
5. The program will provide the community with entry level radiographers for employment in the healthcare setting.

Program Effectiveness expected outcomes are:

a. Students will pass the national certification exam on the 1st attempt.
b. Students seeking employment will be gainfully employed within 6 months of graduation.
c. Students will complete the program.
d. Graduates will be satisfied with their education.
e. Employers will be satisfied with the performance of newly hired technologists.

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 with a grade of “C” or better; (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. The student will be able to complete the radiologic technology program including the foundation courses and general education courses in six semesters and one summer session as a full time student.

After receiving the degree and after completing the clinical internship, the student will be eligible to apply for admission to the state examination and the certification examination administered by the American Registry of Radiologic Technologists (ARRT). The program in Radiography is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

JRC ERT
20 North Wacker Drive, Suite 2850
Chicago, IL 60606-3182
(312) 704-5300
(312) 704-5304 (FAX)
email: mail@jrcert.org
www.jrcert.org

RADILOGIC TECHNOLOGY

ASSOCIATE IN SCIENCE DEGREE
RADIOLOGIC TECHNOLOGY

PROGRAM MISSION STATEMENT
Program Code: 1S03789
The Cypress College Department of Radiologic Technology provides a high quality education to prepare a diverse population of students with entry levels skills needed to become competent and confident radiographers.
MINIMUM STANDARDS FOR APPLICANTS
1. Eligibility for admission to Cypress College.
2. High school graduation, or completion of the General Education Development (GED) test, or high school proficiency test.
3. Minimum age of 17 years.
4. Present evidence of good physical and mental health, as determined by medical examination upon admission to program and prior to enrollment.
5. Overall GPA of 2.0 in all college classes taken.
6. Must have own transportation to all affiliated hospitals.
7. Eligibility for ENGL 100 C.
8. Completion of 9 units of General Education. (See General Education requirements in catalog.)
9. Enrollment in, or completion of, program prerequisites.

APPLICATION PROCEDURES
1. A separate application, in addition to the college application form, is required for admission into the Radiologic Technology program.
2. Application must be completed in person at the Health Science Application Office - in the month of February.
3. All documents (records, forms, transcripts) must be returned to the Health Science Application Office by March 15th.
4. It is the applicant's responsibility to verify that evidence of criteria is on file.

SELECTION PROCEDURES
Applications normally exceed capacity. Selection of applicants is based on accumulation of points. (Criteria is subject to change. For information see a Health Science Counselor.)

PROGRAM PREREQUISITES
Foundation courses are required prior to admission to the program. The following required courses plus a minimum of 9 general education units must be completed by the end of the spring semester with a minimum grade of "C" in each course to be considered for the fall (August) class.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 145 C</td>
<td>Survey of Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210 C</td>
<td>Anatomy and Physiology</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL 231 C</td>
<td>General Human Anatomy</td>
<td>(4)</td>
</tr>
<tr>
<td>RADT 142 C</td>
<td>Radiologic Electronics</td>
<td>4</td>
</tr>
<tr>
<td>RADT 146 C</td>
<td>Introduction to Radiography</td>
<td>4</td>
</tr>
<tr>
<td>MATH 040 C</td>
<td>Intermediate Algebra (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

RadioLogic TECHNOLOGY CURRICULUM
RadioLogic Technology courses must be taken in a specific sequence. Students must obtain a minimum grade of “C” in all required courses to continue in the program. The three (3) semester internships will begin during the summer session following semester 2 of the curriculum and continue until June of the following year.

All courses, including general education courses, to satisfy the Associate Degree (refer to Cypress' Associate Degree requirements) must be completed prior to the end of the internship year. Upon completion of the program and Associate Degree requirements, the student will be eligible for the State Certification and National Registry Examinations. For further information, contact a Health Science Counselor, (714) 484-4270.

Required Courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT 148 C</td>
<td>Radiologic Technology</td>
<td>4</td>
</tr>
<tr>
<td>RADT 150 C</td>
<td>Radiologic Positioning</td>
<td>5</td>
</tr>
<tr>
<td>*RADT 153 C</td>
<td>Radiography Patient Care</td>
<td>3</td>
</tr>
<tr>
<td>*HS 147 C</td>
<td>Survey of Disease</td>
<td>3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT 247 C</td>
<td>Radiographic Positioning</td>
<td>5</td>
</tr>
<tr>
<td>*RADT 250 C</td>
<td>Radiation Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>RADT 251 C</td>
<td>Radiology Externship</td>
<td>4</td>
</tr>
<tr>
<td>RADT 162 C</td>
<td>Radiology Special Procedures</td>
<td>3</td>
</tr>
</tbody>
</table>

SUMMER INTERSESSION
<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT 254 C</td>
<td>Radiologic Internship</td>
<td>6</td>
</tr>
<tr>
<td>RADT 196 C</td>
<td>Radiography-Selected Topics</td>
<td>1-2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>RADT 255 C</td>
<td>Radiologic Internship</td>
<td>8</td>
</tr>
<tr>
<td>RADT 196 C</td>
<td>Radiography-Selected Topics</td>
<td>1-2</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCE 260 C</td>
<td>Fluoroscopy Permit Courses</td>
<td>3</td>
</tr>
<tr>
<td>HSCE 262 C</td>
<td>Cross-Sectional Imaging</td>
<td>1</td>
</tr>
<tr>
<td>RADT 284 C</td>
<td>Vascular Sonography Technology</td>
<td>3</td>
</tr>
<tr>
<td>RADT 266 C</td>
<td>Princ. of Breast Ultrasound</td>
<td>3</td>
</tr>
</tbody>
</table>

DARKROOM TECHNICIAN/ASSISTANT SKILLS
CERTIFICATE Program Code: 1K10449
The Radiology Darkroom Technician/Assistant Program prepares a student for an entry-level position as radiology assistant and/or darkroom technician in a health care facility such as a hospital, private physician's office, or clinic. This program can be completed in one year.

To earn a certificate the student must complete the 16 units of required courses with a minimum grade of “C.” At least 50 percent of all course work must be completed at Cypress College.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 095 C</td>
<td>Effective Writing</td>
<td>3</td>
</tr>
<tr>
<td>HS 145 C</td>
<td>Survey of Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111 C</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>RADT 153 C</td>
<td>Radiography Patient Care</td>
<td>3</td>
</tr>
<tr>
<td>RADT 146 C</td>
<td>Introduction to Radiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units Required 55-58

*May be taken prior to enrollment in program.

Non-refundable supplemental materials charges will apply to some of the above courses in this program.

CONTINUING EDUCATION COURSES

ULTRASOUND/MEDICAL SONOGRAPHY – now known as Diagnostic Medical Sonography and is located under this new name in the catalog.
Radiologic Technology (RADT)

RADT 142 C  RADIOLOGIC ELECTRONICS
4 Units
Four hours lecture per week.
CSU
This course is designed as an introductory course for students pre-
paring for courses in radiologic technology. Content is designed to
establish a basic knowledge of the physics of mechanics, the phys-
ics of sound, and quantum physics to include the x-ray emission
spectrum and x-ray interaction with matter. Also presented are the
nature and characteristics of radiation, x-ray production and the
fundamentals of photon interaction with matter. Basic knowledge in
radiographic equipment and requirements will be discussed.

RADT 146 C  INTRODUCTION TO RADIOGRAPHY
4 Units
Four hours lecture per week.
CSU
This course is an introduction to radiologic technology. Content is
designed to provide an overview of the foundations in radiography
and the practitioner’s role in the health care delivery system. Prin-
ciples, practices, and policies of the health care organization(s) will
be discussed and examined, in addition to the professional respon-
sibilities of the radiographer. The course includes fundamentals of
darkroom procedures, x-ray film characteristics, radiographic
equipment and accessories, principles of radiation protection, and
introduction to radiologic procedures and terminology.

RADT 148 C  RADIOLOGIC TECHNOLOGY
4 Units
Three hours lecture and
Three hours laboratory per week.
CSU
Prerequisite: Admission to Radiologic Technology Program. This
course offers a study of the principles of radiographic exposure,
geometry of radiographic image, factors influencing radiographic
quality, beam restricting and attenuation devices. Included are the
importance of minimum imaging standards, discussion of a prob-
lem solving technique for image evaluation and the factors that can
affect image quality. Actual images will be included for analysis.
Content will also provide a basic knowledge of quality control.
$50.00 Materials Fee – PAYABLE AT REGISTRATION.

RADT 150 C  RADIOLOGIC POSITIONING
5 Units
Four hours lecture and
Three hours laboratory per week.
CSU
Prerequisite: Admission to Radiologic Technology Program. This
course offers positioning nomenclature, positioning methods for
the upper and lower extremities, pelvis, respiratory system, abdo-
men and bony thorax along with practical applications of radi-
ograph evaluation and radiation protection. $50.00 Materials Fee –
PAYABLE AT REGISTRATION.

RADT 153 C  RADIOGRAPHY PATIENT CARE
3 Units
Three hours lecture per week.
CSU
This course on patient care and management, is a lecture/demon-
stration class to teach aseptic techniques and special procedures
used by radiology personnel. It will include student participation in
nursing techniques, techniques in areas such as: operating rooms;
isolation room; diagnostic and fluoroscopic radiology rooms; the
nursery; emergency room; and intensive care rooms. Students will
be required to obtain CPR certification for this class.

RADT 162 C  RADIOLOGY SPECIAL PROCEDURES
3 Units
Two and one-half hours lecture and
One and one-half hours laboratory per week.
CSU
Prerequisite: Satisfactory completion of first semester in the Radio-
logic Technology Program. This course provides the student with
the theory and practice of basic techniques of venipuncture and
the administration of contrast media. Emphasis will be placed on
the types of contrast agents used for the various radiographic pro-
duress. The student will perform both simulated and live insertion
and extraction for contrast media injection. Basic Pharmacology
will be discussed. The student will be introduced to fundamental
principles of computer technology for imaging modalities. Special
imaging modalities such as: Digital Angiography; Computerized
Tomography; Magnetic Resonance Imaging; Medical Sonography;
Nuclear Medicine; and Radiation Therapy will be surveyed. $22.00
Materials Fee – PAYABLE AT REGISTRATION.

RADT 196 C  RADIOGRAPHY-SELECTED TOPICS
1 - 2 Units (Variable Unit Class) (May be taken for
credit 4 times)
Lecture hours will vary according to credit given.
Pass/No Pass/Letter Grade Option
CSU
Prerequisite: RADT 251 C. Current trends and new advances in
diagnostic imaging will be selected for intensive class discussion.
This course will support the student in the clinical internship phase.
Radiographic technique and actual case studies will be discussed.

RADT 247 C  RADIOGRAPHIC POSITIONING
5 Units
Four hours lecture and
Three hours laboratory per week.
CSU
Prerequisite: Satisfactory completion of first semester Radiologic
Technology Program. This course offers advanced positioning nomen-
clature, positioning methods for the skull, urinary systems, vertebral
column, digestive system, arthrography, and myelography exams.
Trauma positioning and techniques are also discussed along with
radiograph evaluations and radiation protection for all procedures.
$33.00 Materials Fee – PAYABLE AT REGISTRATION.
Radiology Externship

4 Units
Two hours lecture and
Sixteen hours supervised training per week and observation in an approved clinical affiliate.

Prerequisite: Satisfactory completion of first semester Radiologic Technology Program. Class period provides an introduction to fluoroscopy, tomography, computers in radiology, hysterosalpingograms, mammography and pediatric radiography.

Radiologic Internship

6 Units
Forty hours laboratory per week.

Prerequisite: Satisfactory completion of the second semester of the Radiologic Technology Program. This course begins the twelve month continuous internship phase of the Radiologic Technology Program. Students are assigned to selected clinical education centers which provide supervised clinical training with the Department of Radiology. Internship of 40 hours per week extends through intersessions and are subject to rearrangement by hospital/facility. Clinical practice experiences shall be designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management.

Radiologic Internship

8 Units (May be taken for credit 2 times)
Forty hours laboratory per week.

Prerequisite: Satisfactory completion of RADT 254 C. This course provides for continuation of the internship phase of the Radiologic Technology Program. Students are assigned to selected clinical education centers which provide supervised clinical training with the Department of Radiology. Internship of 40 hours per week extends through intersessions and are subject to rearrangement by hospital/facility. Students must meet the program competency requirements and designated hours of clinical internship for completion of the program.

Radiologic Internship

3 Units
Forty hours laboratory per week.

Prerequisite: Satisfactory completion of RADT 254 C or a Limited Permit in X-ray technology. Content is designed to provide an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues, and the body as a whole are presented. Factors affecting biological responses are presented, including acute and chronic effects of radiation. The course is designed to present the principles of radiation protection including the responsibilities of the radiographer for patients, personnel, and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies, and health care organizations are incorporated. An introduction to legal terminology, concepts, and principles will be presented. Topics include misconduct, malpractice, legal and professional standards and the scope of practice. The importance of proper documentation and informed consent is emphasized. The student will examine a variety of ethical issues and dilemmas found in clinical practice.

Radiologic Internship

3 Units
Two and one-half hours laboratory per week.

Prerequisite: Satisfactory completion of RADT 254 C or a Limited Permit in X-ray technology. Content is designed to provide an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues, and the body as a whole are presented. Factors affecting biological responses are presented, including acute and chronic effects of radiation. The course is designed to present the principles of radiation protection including the responsibilities of the radiographer for patients, personnel, and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies, and health care organizations are incorporated. An introduction to legal terminology, concepts, and principles will be presented. Topics include misconduct, malpractice, legal and professional standards and the scope of practice. The importance of proper documentation and informed consent is emphasized. The student will examine a variety of ethical issues and dilemmas found in clinical practice.

Radiologic Internship

3 Units
Two and one-half hours laboratory per week.

Prerequisite: A.R.D.M.S. (American Registry of Diagnostic Medical Sonographers) Registered Medical Sonographer and/or knowledge of basic ultrasound equipment and scanning techniques. This course is the physical principles of vascular ultrasound technology. The course will focus toward learning the hemodynamic principles of normal and pathological vascular ultrasound procedures. Concepts of color and pulsed wave Doppler sonography as they apply to vascular imaging will be discussed. Emphasis on vascular anatomy, physiology and pathology to include vascular scanning protocol. Basic ultrasound physics and instrumentation will be reviewed. A working knowledge of basic ultrasound equipment, scanning techniques, and familiarity with color Doppler sonography is recommended. This course will prepare the student for the Registered Vascular Technology (RVT) examination.

Radiologic Internship

1 Unit
One hour lecture per week.

Prerequisite: Current California Radiologic Technology Certification License. This course will provide the knowledge of skills, attitudes, and competencies to operate fluoroscopy equipment efficiently and safely. Upon successful completion of the course, students will receive a certificate of completion and be eligible to qualify for the California State Technologists Fluoroscopy Permit certification test. Students must be able to verify C.R.T. status at the first class meeting.

Cross-Sectional Imaging

1 Unit
One hour lecture per week.

Prerequisite: A.R.D.M.S. (American Registry of Diagnostic Medical Sonographers) Registered Medical Sonographer and/or knowledge of basic ultrasound equipment and scanning techniques. This course is the physical principles of vascular ultrasound technology. The course will focus toward learning the hemodynamic principles of normal and pathological vascular ultrasound procedures. Concepts of color and pulsed wave Doppler sonography as they apply to vascular imaging will be discussed. Emphasis on vascular anatomy, physiology and pathology to include vascular scanning protocol. Basic ultrasound physics and instrumentation will be reviewed. A working knowledge of basic ultrasound equipment, scanning techniques, and familiarity with color Doppler sonography is recommended. This course will prepare the student for the Registered Vascular Technology (RVT) examination.
Recreation
Division of Physical Education and Athletics

Division Dean – Diane Henry

Faculty
Larry Beidler
Scott Pickler

Counselor
Dana Bedard

TRANSFER PROGRAM - RECREATIONAL LEADERSHIP
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Real Estate
Division of Business and Computer Information Systems
Division Dean – Dave Wassenaar

Counselor
Robert Grantham

Real Estate (RE)

RE 101 C  REAL ESTATE PRINCIPLES
3 Units
Three hours lecture per week.
CSU
This is a beginning course in real estate fundamentals and principles. The development of real estate in California and an introductory study of ownership, appraisal, law, practices, financing, land and location values, transfers, trends, regulations, and economic effects are stressed. Course fulfills educational prerequisites for California state licensure.

RE 201 C  REAL ESTATE PRACTICE
3 Units
Three hours lecture per week.
CSU
This course covers professional aspects of the real estate business. Topics include an overview of the real estate industry, ethics and licensing requirements; hands-on completion of contracts, forms, and disclosure documents; prospecting strategies for obtaining clients; listing properties and servicing those listings; marketing techniques; strategies for showing property; obtaining and handling offers; closing sales transactions; financing, escrow, title and taxation issues; and 1031 exchange requirements for investment property.

Recreation (REC)

REC 100 C  INTRODUCTION TO LEISURE SERVICES/RECREATION
3 Units
Three hours lecture per week.
CSU
This course is the foundation for an introduction to the broad field of recreation and leisure services. The class will include the relationship of recreation to the individual and society.

REC 101 C  PRINCIPLES OF COMMUNITY RECREATION
3 Units
Three hours lecture per week.
CSU
This course is an introduction to a variety of recreational activities suitable for a community recreation program. The class will study the various agencies and institutions that provide opportunities for community recreation. The class will emphasize interrelationships of these agencies.

REC 102 C  RECREATION LEADERSHIP
2 Units
Two hours lecture and Two hours laboratory per week.
CSU
This course will provide the theory and activity in teaching leadership in playground and recreational activities. The class will identify methods, techniques, planning procedures, organizing techniques, along with the evaluation of these procedures and techniques.
REC 103 C  ORGANIZATION OF FALL SPORTS ACTIVITIES IN RECREATION
2 Units
One hour lecture and
Two hours laboratory per week.
CSU
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.

REC 104 C  ORGANIZATION OF SPRING SPORTS ACTIVITIES IN RECREATION
2 Units
One hour lecture and
Two hours laboratory per week.
CSU
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.

REC 106 C  OUTDOOR RECREATION - CAMP COUNSELING
3 Units
Three hours lecture per week.
CSU
This course will emphasize the history, development and trends of organized camping and other outdoor recreation skills. The class will include leadership training in camp counseling with special emphasis on practical skills in camping, fire building, outdoor cooking, tenting, and camp crafts. This class is recommended for recreation majors and students interested in outdoor recreation.

REC 107 C  RECREATION FOR SPECIAL GROUPS
3 Units
Three hours lecture per week.
CSU
This class is an introduction to the relationship of recreation and special groups (i.e., teenagers, senior citizens, and the disabled). The course will emphasize social development and how to integrate special groups into recreation programs with adoption of all forms of recreation for use by these groups.

REC 298 C  RECREATION SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This class will utilize a lecture/lab-activity approach to various topics in recreation. A variety of classes will be offered in order to introduce students to new experiences in recreation. Fees may be required – PAYABLE AT REGISTRATION.

Secretarial –
See Office Administration (OFF)

Social Science
Division of Social Science
Division Dean – Nina DeMarkey
Counselors
Velia Lawson
Therese Mosqueda-Ponce
Daniel Pelletier

Social Science (SOSC)
SOSC 295 C  RESEARCH METHODS IN ORAL HISTORY
2 Units
(Same as HIST 295 C)
One hour lecture and
Three hours laboratory per week.
CSU
This course introduces students to the special techniques of tape-recorded interviews to document 20th century history. Areas of study will include interviewing techniques, historical editing and transcripts of interviews. This course does not satisfy General Education requirements in Social Science.

SOSC 298 C  SOCIAL SCIENCE SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to thirty-six hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion type course developed on a particular limited problem or topic of interest to students. It is designed for able students who wish to increase their knowledge of a particular topic which no other regular class is offered. A paper or group activity may be requested. Credit may range from ½ to 12 units. Consult the class schedule for the offerings a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

SOSC 299 C  SOCIAL SCIENCE-IND. STUDY
1 Unit (May be taken for credit 4 times)
One hour lecture per week.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. Independent study is for students who wish to extend their knowledge of a particular area through individual research and study. It is thought that topics might develop out of a curiosity stimulated in a regular class. The student would then contact the supervising instructor to develop a contract for his/her particular interest so he/she could learn more regarding their special topic.
Sociology

Division of Social Science

Division Dean – Nina DeMarkey

Faculty
- Larry Curiel
- James Dedic
- Regina Rhymes

Counselors
- Velia Lawson
- Therese Mosqueda-Ponce
- Daniel Pelletier

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.

ASSOCIATE IN ARTS DEGREE

SOCIOCY

Program Code: 1A16918

The Associate in Arts Degree in Sociology is designed to provide students with an introduction and overview of the field. Sociology is the study of social life, social systems, social change and the social causes and consequences of human behavior. It is based on the idea that the understanding of the dynamic structure of social life will allow use to analyze present situations against the backdrop of larger social realities and lead to effective responses to those situations. The Sociology Degree program includes the study of sociological theories and knowledge, the scientific foundations of sociology, and the application of the sociological perspective to various, specific areas of social life. It offers an opportunity to examine the field in detail and to identify possible personal directions for further study. Sociology gives students a solid basis for many career paths and can be enhanced with multidisciplinary study in related fields. The Associate in Arts Degree in Sociology prepares the student for entry level careers in related fields and offers a firm foundation for further academic study at a four-year college or university which is very important for advancement in sociology.

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 percent 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.

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<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SOC 101 C</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101HC</td>
<td>Honors Intro to Sociology</td>
<td>(3)</td>
</tr>
<tr>
<td>SOC 102 C</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOC/PSY 161 C</td>
<td>Probability &amp; Stats-Social Sci</td>
<td>4</td>
</tr>
</tbody>
</table>

Select nine (9) units from the following Sociology Elective Courses:
- PSY/SOC 120 C Human Sexuality | 3 |
- PSY/SOC 215 C Parenting Skills | 3 |
- SOC 225 C Sociology of Women | 3 |
- PSY/SOC 237 C Cross-Cultural Relationships | 3 |
- HUSR/SOC 250 C Sociology of Aging | 3 |
- SOC 275 C Marriage and Family | 3 |
- SOC 277 C Sociology of Religion | 3 |
- HUSR/SOC 292 C Introduction to Criminology | 3 |

Total Units Required 19

SOCIETY TRANSFER PROGRAM

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Sociology (SOC)

SOC 101 C  INTRODUCTION TO SOCIOLOGY 3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an analysis of human relationships through a study of cultural origins, personality development, social interaction, community organization, collective behavior, institutional growth, social change, and social movements. Duplicate credit not granted for SOC 101HC.

SOC 101HC HONORS INTRODUCTION TO SOCIOLOGY 3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an enhanced version of Introduction to Sociology for honors students. This course is an analysis of human relationships through a study of cultural origins, personality development, social interaction, community organization, collective behavior, institutional growth, social change, and social movements. Duplicate credit not granted for SOC 101 C.

SOC 102 C  SOCIAL PROBLEMS 3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Completion of SOC 101 C. This course is an identification and analysis of selected contemporary social problems in American society and around the world. It includes problems of overpopulation, environmental destruction, war, race, poverty, sex inequality, aging, drug abuse, health, crime and violence. Alternative approaches to the resolution of these problems and identification of institutions and organizations involved in their resolution are emphasized.
SOC 120 C  HUMAN SEXUALITY
3 Units
(Same as PSY 120 C)
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an overview of the psychological, sociological and psychobiological aspects of human sexuality. The course takes an interdisciplinary approach dealing with the entire area of human sexual behavior viewed in the context of the total integrated personality. *Duplicate credit not granted for PSY 120 C.*

SOC 161 C  PROBABILITY & STATISTICS-SOCIAL SCIENCE
4 Units
(Same as PSY 161 C)
Four hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: MATH 040 C or 2 years of high school Algebra with grades of “C” or better. This course provides an introduction to fundamental statistical concepts relevant to the social sciences but applicable to all disciplines. A conceptual approach is used to introduce students to topics of descriptive and inferential statistics including sampling, probability, central tendency, variability, correlation, regression, point estimation, interval estimation, and hypothesis testing. Also introduced are non-parametric statistics, such as chi-square, and parametric statistics, such as t-tests and ANOVA. Computers and calculators will be utilized. The use of current statistical software is emphasized. Data sets and problems will be from psychology, sociology, anthropology, economics, geography, and political science. This course is open to all students who meet the prerequisite, and it is required for sociology majors. This course is strongly recommended for all social science majors. Students who receive credit for this course may not receive credit for MATH 120 C.

SOC 215 C  PARENTING SKILLS
3 Units
(Same as PSY 215 C)
Three hours lecture per week.
CSU
This course is designed to build realistic expectations in parenting. Students will acquire parenting skills and deal constructively with varied aspects of child rearing. A special emphasis will be placed on reviewing contemporary discipline and guidance techniques and on exploring resources available in the community for parenting. The course includes developmental stages from birth through adulthood.

SOC 225 C  SOCIOLOGY OF WOMEN
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course covers an identification and analysis of the status of women in American society. Sociological issues pertinent to the conditions of women are examined, such as the social construction of gender, feminism, women’s health, sexuality, relationships, employment, and familial roles.

SOC 237 C  CROSS-CULTURAL RELATIONSHIPS
3 Units
(Same as PSY 237 C)
Three hours lecture per week.
UC/CSU, CSU GE, IGETC, CUL DIV
Advisory: Eligibility for ENGL 100 C. This course is an introduction to the psychological factors involved in cross-cultural relationships including ethnic and racial differences. It explores the personal processes and individual conflicts of people from differing United States ethnic backgrounds. Varying customs, social patterns and family dynamics of major local cultural groups will be discussed within this context.

SOC 250 C  SOCIOLOGY OF AGING
3 Units
(Same as HUSR 250 C)
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
The course explores the concept of aging and sociological/cultural theories of aging. The gender, cross-cultural, economic, political and social policy aspects of aging in society and the world are examined. Critical life issues for elders and for those who live and work with them are explored. These issues include empowerment, care giving, social support, living arrangements, elder abuse, work, retirement, quality of life and death and dying. *Duplicate credit not granted for HUSR 250 C.*

SOC 275 C  MARRIAGE AND FAMILY
3 Units
Three hours lecture per week.
UC/CSU, AA GE, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is a study of the sociological factors involved in family relationships, courtship, marital adjustments and parenthood. This course examines various patterns of marriage and families within the United States.

SOC 277 C  SOCIOLOGY OF RELIGION
3 Units
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
Advisory: Eligibility for ENGL 100 C. This course is an analysis of religion as a social institution. Emphasis will be placed on the influence that religion has on American society by examining the role religion plays in people’s lives, and legitimizes some existing social and economic arrangements.

SOC 292 C  INTRODUCTION TO CRIMINOLOGY
3 Units
(Same as HUSR 292 C)
Three hours lecture per week.
UC/CSU, CSU GE, IGETC
The course presents a scientific analysis of the nature, extent, and causes of violations of societal rules of behavior that are formally defined as crime and delinquency. The course includes an analysis of the theoretical perspectives that led to the development of criminal law and the administration of criminal justice, the patterns of criminality and delinquency, the impact of crime on social change, and the labeling, identification, characteristics, and the treatment of criminals and delinquents. *Duplicate credit not granted for HUSR 292 C.*
Spanish (SPAN)

SPANISH TRANSFER PROGRAM

Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

SPAN 050 C  PUBLIC SERVICE SPANISH
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
This course is a basic communication course, for students who want to acquire a speaking knowledge for vocational needs in the fields of health-care, social welfare, law enforcement, hotel and restaurant industries, and business in general. Consideration also will be given to cultural topics. It is assumed that the student has no prior knowledge of the language.

SPAN 053 C  BASIC SPOKEN SPANISH
3 Units (May be taken for credit 2 times)
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
This is a basic introductory course which emphasizes oral practice, pronunciation and vocabulary development. It is designed to develop a speaking and understanding knowledge of Spanish for use in everyday conversational situations. It is not open to native speakers of the language.

SPAN 098 C  SPANISH SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is for able students who wish to extend their knowledge of literature, language and culture through small group discussion. Fees may be required – PAYABLE AT REGISTRATION.

SOC 298 C  SOCIOLOGY SEMINAR
½ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This is a lecture/discussion type course developed on a particular limited problem or topic of interest to students. It is designed for students who wish to increase their knowledge of a particular interest topic concerning which no other regular class is offered. A paper or group activity may be requested. Credit may range from ½ to 12 units. Consult the class schedule for the offerings a particular semester. Fees may be required – PAYABLE AT REGISTRATION.

SOC 299 C  SOCIOLOGY INDEPENDENT STUDY
1 Unit (May be taken for credit 4 times)
One hour lecture per week.
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract. Independent study is for students who wish to extend their knowledge of a particular area through individual research and study. It is thought that topics might develop out of a curiosity stimulated in a regular class. Students would then contact the supervising instructor to develop a learning contract for their particular interest so that they could learn more regarding their chosen specific topic.

Spanish
Division of Language Arts
Division Dean – Eldon Young

Faculty
E. Alex Herrera
Olga Moran
A. Fernando Oliveira
Jessica Puma

Counselors
Velia Lawson
Daniel Pelletier
Therese Mosqueda-Ponce

PROGRAM LEARNING OUTCOMES (PLOs)
The courses taught by this department contribute to the General Education and Basic Skills Program Learning Outcomes. Please refer to General Education and Basic Skills Program Learning Outcomes on page 58.
**SPAN 102 C  ELEMENTARY SPANISH II**
5 Units
Five hours lecture and
One hour laboratory TBA per week.
Pass/No Pass/Letter Grade Option
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: SPAN 101 C with grade of “C” or better, or one year of high school Spanish with a grade of “C” or better is recommended. The course continues to emphasize the acquisition of basic skills in pronunciation, listening, speaking, reading, and writing. Students will enhance their knowledge of the culture, history, and geography of Spain and Latin America through lectures, slides, films, and reading and writing assignments. **Duplicate credit not granted for SPAN 102HC.**

**SPAN 102HC  HONORS ELEMENTARY SPANISH II**
5 Units
Five hours lecture and
One hour laboratory TBA per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: SPAN 101 C with grade of “C” or better, or one year of high school Spanish with a grade of “C” or better is recommended. This course is a continuation of elementary Spanish enhanced for honors students in a seminar setting. Students will create original dialogues and participate in current events discussions in order to increase their knowledge of the culture, history, and geography of Spain and Latin America. Lectures, slides, films, and reading and writing assignments will also be used. **Duplicate credit not granted for SPAN 102 C.**

**SPAN 200 C  CONVERSATIONAL SPANISH**
2 Units (May be taken for credit 4 times)
Two hours lecture per week.
Pass/No Pass/Letter Grade Option
CSU, CSU GE
Prerequisite: SPAN 102 C. The course emphasizes extensive practice in oral expression and listening comprehension at intermediate and advanced levels of competency. The materials used provide a systematic practice of grammatical concepts, literary analysis and cultural appreciation.

**SPAN 201 C  SPANISH FOR SPANISH SPEAKERS**
5 Units
Five hours lecture per week.
Pass/No Pass/Letter Grade Option
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC
Prerequisite: A native or near-native speaking knowledge of Spanish for those who have had little or no formal education in the language. Recommend: Two years of high school Spanish. This course is designed to address the needs of students with Spanish speaking backgrounds who have little or no formal training in Spanish. Emphasis will be placed on composition, advanced reading comprehension, standard vs. vernacular usages, and cross-language interference. The course’s aim is to reinforce oral expression and comprehension, develop writing skills, build a wider based vocabulary, read Hispanic literature and provide an awareness of the language. **Duplicate credit not given for SPAN 101 C or SPAN 102 C.**

**SPAN 203 C  INTERMEDIATE SPANISH III**
4 Units
Four hours lecture and
One hour laboratory TBA per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC
Prerequisite: SPAN 102 C with a grade of “C” or better, or two years of high school Spanish with a grade of “C” or better is recommended. The course introduces the student to the more formal aspects of literary analysis and cultural appreciation through a selection of readings by modern Spanish and Spanish American authors. It also provides extensive practice in oral and written expression and a thorough review of grammatical concepts.

**SPAN 204 C  INTERMEDIATE SPANISH IV**
4 Units
Four hours lecture and
One hour laboratory TBA per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC
Prerequisite: SPAN 203 C with a grade of “C” or better, or three years of high school Spanish with a grade of “C” or better is recommended. The course continues to emphasize acquisition of the more formal aspects of literary analysis and cultural appreciation through a selection of advanced readings by modern Spanish and Spanish American authors. It also provides extensive practice in oral and written expression and a thorough review of grammatical concepts.

**SPAN 298 C  SPANISH SEMINAR**
¼ - 12 Units (Variable Unit Class) (May be taken for credit 1-4 times)
Zero to twelve hours lecture and
Zero to twenty-four hours laboratory per week.
Pass/No Pass or Pass/No Pass/Letter Grade Option or Standard Letter Grade
UC Credit Limitation/CSU
Prerequisite: May be required. Corequisite: May be required. Advisory: May be required. This seminar is for able students who wish to extend their knowledge of literature, language and culture through small group discussion. **Fees may be required – PAYABLE AT REGISTRATION.**

**SPAN 299 C  SPANISH INDEPENDENT STUDY**
¼ - 2 Units (Variable Unit Class) (May be taken for credit 3 times)
Two hours conference per week
for maximum credit.
Pass/No Pass/Letter Grade Option
UC Credit Limitation/CSU
Prerequisite: Approved Independent Study Learning Contract.
This course is designed for able students who wish to increase their knowledge of language through individual study or research.

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**Speech — Now known as Communication Studies**
Select 2 - 3 units from the following performance classes according to emphasis:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 130 C</td>
<td>Acting Workshop</td>
<td>3</td>
</tr>
<tr>
<td>THEA 132 C</td>
<td>Musical Theater Workshop</td>
<td>2 - 3</td>
</tr>
<tr>
<td>THEA 133 C</td>
<td>Rehearsal and Performance</td>
<td>2 – 3</td>
</tr>
<tr>
<td>THEA 149 C</td>
<td>Stage Crew Activity</td>
<td>1,1,1</td>
</tr>
<tr>
<td>THEA 234 C</td>
<td>Ensemble Acting</td>
<td>2 - 3</td>
</tr>
<tr>
<td>MUS 290 C</td>
<td>Musical Theater Production</td>
<td>2 - 3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units Required</strong></td>
<td><strong>29-30</strong></td>
</tr>
</tbody>
</table>

COSTUME/MAKEUP DESIGN

**CERTIFICATE Program Code: 1K12955**

The certificate in costume/makeup design is designed to prepare the student for occupational competency in the field of costume/ makeup design for theater.

To earn a certificate, the required courses must be completed 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 145 C</td>
<td>Fundamentals of Costume Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 185 C</td>
<td>Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>THEA 147 C</td>
<td>Stage Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THEA 149 C</td>
<td>Stage Crew Activity</td>
<td>1,1,1</td>
</tr>
</tbody>
</table>

*THEA 149 C may be taken for an additional 3 units if taken for two different production assignments.*

And an additional 3 units from the following:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 247 C</td>
<td>Prosthetic Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THEA 149 C</td>
<td>Stage Crew Activity</td>
<td>1,1,1</td>
</tr>
</tbody>
</table>

| **Total Units Required** | **15** |

LIGHTING/AUDIO DESIGN

**CERTIFICATE Program Code: 1K12956**

This certificate in lighting/audio design is designed to prepare the student in occupational competency in lighting and sound design for theater.

To earn a certificate, the required courses must be completed as 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 124 C</td>
<td>Recording Studio I</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>THEA 142 C</td>
<td>Theater Sound and Recording</td>
</tr>
<tr>
<td>THEA 144 C</td>
<td>Lighting Design Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>THEA 149 C</td>
<td>Stage Crew Activity</td>
<td>1,1,1</td>
</tr>
<tr>
<td>*ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
</tr>
<tr>
<td>THEA 140 C</td>
<td>Introduction to Theater Design</td>
<td>3</td>
</tr>
</tbody>
</table>

| **Total Units Required** | **13 – 15** |

* A score of 3 or higher on the Advanced Placement (AP) Art (Studio Drawing) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

TECHNICAL THEATER

**CERTIFICATE Program Code: 1K12962**

The Technical Theater Certificate is designed to prepare the student for occupational competency in the field of technical theater.

To earn a certificate, the required courses must be completed 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:**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 124 C</td>
<td>Recording Studio I</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>THEA 142 C</td>
<td>Theater Sound and Recording</td>
</tr>
<tr>
<td>THEA 144 C</td>
<td>Lighting Design Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>THEA 149 C</td>
<td>Stage Crew Activity</td>
<td>1,1,1</td>
</tr>
<tr>
<td>*ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
</tr>
<tr>
<td>THEA 140 C</td>
<td>Introduction to Theater Design</td>
<td>3</td>
</tr>
</tbody>
</table>

| **Total Units Required** | **13 – 15** |

* A score of 3 or higher on the Advanced Placement (AP) Art (Studio Drawing) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.
Cypress College 2010-2011

Required courses are listed in suggested sequence:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 140 C</td>
<td>Introduction to Theater Design</td>
<td>3</td>
</tr>
<tr>
<td>*ART 182 C</td>
<td>Freehand Drawing</td>
<td>3</td>
</tr>
<tr>
<td>THEA 120 C</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 149 C</td>
<td>Stagecraft</td>
<td>1.1</td>
</tr>
<tr>
<td>THEA 143 C</td>
<td>Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units Required</strong></td>
<td></td>
<td><strong>14-15</strong></td>
</tr>
</tbody>
</table>

* A score of 3 or higher on the Advanced Placement (AP) Art (Studio Drawing) exam meets this requirement upon petition through Admissions and Records. See a counselor for more information.

THEATER ARTS TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Theater Arts (THEA)

THEA 100 C  INTRODUCTION TO THE THEATER
3 Units
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE, IGETC

This course is designed for those who wish to explore the performing arts with special attention given to a survey of all the contributing elements. The course prepares the student for other course offerings in the theater curriculum. Admission to theater performance not to exceed $50.00.

THEA 107 C  DIVERSITY IN AMERICAN THEATER
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC, CUL DIV
Advisory: ENGL 100 C. America’s ethnic, racial and cultural heritages and the struggles for social equality that have shaped American theater, literature and performance will be explored. Admission to theater performance not to exceed $50.00. Duplicate credit not given for THEA 107HC.

THEA 107HC  HONORS DIVERSITY IN AMERICAN THEATER
3 Units
Three hours lecture per week.
UC Credit Limitation/CSU, AA GE, CSU GE, IGETC, CUL DIV
Advisory: ENGL 100 C. This course is an enhanced study of America’s ethnic, racial and cultural heritages and the struggles for social equality that have shaped American theater, literature and performance. Admission to theater performance not to exceed $50.00. Duplicate credit not given for THEA 107C.

THEA 108 C  STAGE AND SCREENWRITING
3 Units (May be taken for credit 4 times)
Three hours lecture per week.
CSU, AA GE, CSU GE
Advisory: ENGL 100 C. Beginning playwrights and screenwriters discover the basic craft of creating scripts for stage, screen and television. The class will concentrate on student’s current work and illustrations will be drawn from contemporary plays and screenplays.

THEA 120 C  ACTING I
3 Units
Two hours lecture and
Four hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE
Acting methods of the modern actor will be studied. Students will use craft preparations which will enable them to bring emotional and behavioral truth to the roles they create. Exercises in relaxation, sensory awareness, emotional freedom and the creation of truthful behavior will be practiced.

THEA 121 C  DYNAMIC MOVEMENT FOR THE STAGE
2 Units (May be taken for credit 2 times)
One hour lecture and
Three hours laboratory per week.
UC/CSU, CSU GE
Students learn the art of physical communication. Students will discover and explore structured physical play, unarmed stage combat and stimulus response exercises. Basic anatomy as it relates to motion and communication will be examined. This class is designed for actors and all students.

THEA 124 C  ACTING II
3 Units (May be taken for credit 3 times)
Two hours lecture and
Four hours laboratory per week.
UC/CSU
Prerequisite: THEA 120 C or audition. Advisory: Concurrent enrollment or completion of THEA 121 C or THEA 129 C.
The study of acting methods of the modern actor will be examined. Actors will proceed to a more advanced exploration and mastery of the basic craft of acting. Actors will learn specific skills for preparing a role and for creating and experiencing the imaginary realities that fulfill a script.

THEA 126 C  MUSICAL THEATER TECHNIQUES
3 Units (May be taken for credit 4 times)
(Same as MUS 291 C)
Two hours lecture and
Four hours laboratory per week.
UC/CSU, AA GE, CSU GE
Students will investigate performance methods of musical theater as they relate to the onstage performer. All styles of musical theater may be covered and performance in a workshop setting of musical theater literature is required.

THEA 128 C  ACTING FOR THE CAMERA
2 Units
(Formerly THEA 222 C)
One hour lecture and
Three hours laboratory per week.
Pass/No Pass/Letter Grade Option
UC/CSU
Students will master the fundamental craft of acting for television and feature film. Guidelines for solving the specific demands the camera makes on the actor will be stressed.
### THEA 129 C  VOICE AND DICTION
3 Units (May be taken for credit 2 times)
Three hours lecture per week.
Pass/No Pass/Letter Grade Option
UC/CSU, AA GE, CSU GE
This is a course in the study of and exercise in voice production and articulation with the goal of producing Standard American speech. Special attention is given to diction for actors, classroom teachers and students with minor speech defects. Stress is placed on individual exercises designed to give conscious control of speech functions. Attendance at theater productions may be required.

### THEA 130 C  ACTING WORKSHOP
3 Units (May be taken for credit 4 times)
Three hours lecture and
Six hours laboratory TBA per week.
UC/CSU
Prerequisite: Audition. This performance laboratory will emphasize the application of the principles and the craft of creative acting. Faculty and theater students will initiate and prepare performance projects for an invited audience. These projects will emphasize the performers with a limited use of production elements.

### THEA 132 C  MUSICAL THEATER WORKSHOP
2 - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
Eight to twelve hours laboratory TBA per week for maximum credit.
UC/CSU, AA GE, CSU GE
Prerequisite: Audition. Advisory: THEA 149 C, DANC 203 C or one from THEA 140 C - THEA 147 C. This course teaches the practical application of acting and production techniques, i.e., acting, stage managing, backstage operation. Students will participate in the rehearsal and performance of a public production occurring in the Theater Arts Department.

### THEA 133 C  REHEARSAL AND PERFORMANCE
2 - 3 Units (Variable Unit Class) (May be taken for credit 4 times)
Eight to twelve hours laboratory TBA per week for maximum credit.
UC/CSU, AA GE, CSU GE
Prerequisite: Audition to evaluate and assess the student's qualifications (proficiency) is required for enrollment. Advisory: THEA 149 C, DANC 203 C or one from THEA 140 C - THEA 147 C. This course explores the planning and execution of scenic elements for the stage with an emphasis on construction and methods of shifting scenery. Admission to theater performances will not exceed $50.00. $25.00 Materials Fee - Payable at Registration.

### THEA 134 C  AUDITIONS FOR THEATER/FILM
1 Unit (May be taken for credit 3 times)
One hour lecture per week.
CSU
Prerequisite: Audition. Theater students will create and then perform audition presentations that demonstrate their proficiency in the fundamental skills of acting and auditioning.

### THEA 140 C  INTRODUCTION TO THEATER DESIGN
3 Units
Two hours lecture and
Four hours laboratory per week.
UC/CSU
Students will be offered a survey of scenery, lighting, sound, costumes, makeup, properties, theatrical equipment and construction techniques through demonstration, and laboratory experience. Information is applicable to all formal theatrical applications. Admission to theater performance not to exceed $50.00.

### THEA 142 C  THEATER SOUND AND RECORDING
2 Units (May be taken for credit 2 times)
One hour lecture and
Three hours laboratory per week.
CSU
The student will be involved in recording studio procedure and equipment selection and use for theater. The course covers the technical as well as the artistic use of sound recording for theater. Emphasis will be placed on the practical use of audio equipment. Admission to theater performances will not exceed $50.00.

### THEA 143 C  STAGECRAFT
3 Units (May be taken for credit 2 times)
Two hours lecture and
Three hours laboratory per week.
UC/CSU
Students will study costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. Admission to theater performances will not exceed $50.00.

### THEA 144 C  LIGHTING DESIGN FUNDAMENTALS
3 Units (May be taken for credit 2 times)
Two hours lecture and
Three hours laboratory per week.
UC/CSU
Prerequisite: Audition.
Advisory: THEA 149 C, DANC 203 C or one from THEA 140 C - THEA 147 C. The student will participate in the preparation of a musical production through acting, singing, dancing and/or instrumental accompaniment. Performers will make use of production elements and performance techniques.

### THEA 145 C  FUNDAMENTALS OF COSTUME DESIGN
3 Units (May be taken for credit 2 times)
Two hours lecture and
Three hours laboratory per week.
UC/CSU, CSU GE
Prerequisite: Audition to evaluate and assess the student's qualifications (proficiency) is required for enrollment. Advisory: THEA 149 C, DANC 203 C or one from THEA 140 C - THEA 147 C. Students will study costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. Admission to theater performances will not exceed $50.00.
THEA 146 C  SCENE PAINTING
3 Units (May be taken for credit 3 times)
Two hours lecture and
Three hours laboratory per week.
UC/CSU
Various methods of painting theatrical scenery will be explored. Tools to be used will include brush, roller, sponges. Students will duplicate stucco, masonry, wood grain, foliage, wallpaper, lettering, drapery, and architectural detail on rigid scenery. May be taken for credit 3 times. Admission to theater performances will not exceed $50. $25 Materials Fee - Payable at Registration.

THEA 147 C  STAGE MAKEUP
3 Units (May be taken for credit 2 times)
Two hours lecture and
Three hours laboratory per week.
UC/CSU
Students will receive instruction and practice in a lecture/laboratory setting in all phases of makeup specifically designed for theatrical use. Admission to theater performances not to exceed $50.

THEA 148 C  PRODUCTION TECHNIQUES
½ - 12 Units (Variable Unit Class) (May be taken for credit 4 times)
(Open Entry-Open Exit)
Two to forty-eight hours laboratory per week.
CSU
Prerequisite: Audition. This is an open entry/open exit class for students to obtain production experience in theater and dance through acting, directing, technical work, management, and publicity.

THEA 149 C  STAGE CREW ACTIVITY
1-2 Units (Variable Unit Class) (May be taken for credit 4 times)
Four to eight hours laboratory per week.
UC/CSU, AA GE, CSU GE
Stage crew offers practical experience in stage management, scenery, paint, sound, props, lighting, makeup and costumes through preparation of a play for public performance.

THEA 220 C  SCENE STUDY
3 Units (May be taken for credit 2 times)
Two hours lecture and
Four hours laboratory per week.
UC/CSU
Prerequisite: THEA 120 C or Audition. Advisory: Concurrent enrollment or completion of THEA 121 C or THEA 129 C. The actor will examine and practice the fundamental skills required to perform in historical and stylized dramatic works. The reading and performance of dramatic literature that varies from classical texts to avant-garde works and non-traditional sources are required.

THEA 225 C  DIRECTING FOR THE THEATER
3 Units (May be taken for credit 2 times)
Three hours lecture per week.
UC/CSU
The director’s purpose in the theater will be examined through current craft approaches and through a historical context. Practical experience in directing through class projects will be stressed.
Undeclared or Undecided

TRANSFER PROGRAM
Students should consult a counselor or www.assist.org for lower division major requirements for most California public universities. (See the Standard Definitions section of the catalog for a description of ASSIST.) Students transferring to an independent college/university should consult the catalog of the individual school and a counselor for lower division major requirements.

Veterinary Medicine

VETERINARY MEDICINE TRANSFER PROGRAM
Professional programs such as dentistry, medicine, pharmacy, optometry, physician assistant, physical therapy and veterinary medicine are most often graduate programs that require a bachelor degree or significant preparation prior to entering the program. The appropriate preparation varies according to the school and specific program. Students are advised to meet with a counselor to discuss options for their bachelor degree and the lower division requirements for the program and school of their choice.

Welding

Division of Career Technical Education and Economic Development

Division Dean – Steve Donley
Counselor
Jane Jepson

WELD 040 C MATERIAL FABRICATION MACHINING
4 Units (May be taken for credit 2 times)
Two hours lecture and
Six hours laboratory per week.
This is a course designed to prepare the student with skills in machine tool equipment used by industry. Students will be instructed in the use of the lathe, drill press, grinder, shaper, milling machine and measuring instruments. Machine and sheet metal fabrication will prepare the student in the use of metals in the joining, forming, shaping and cutting of materials. Material Fees for materials provided by the Department. Fee is paid in the Bookstore as needed during the semester.
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:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 055</td>
<td>Business English</td>
<td>3</td>
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<tr>
<td>MGT 111</td>
<td>Business Communications</td>
<td>3</td>
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<tr>
<td>or</td>
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</tr>
<tr>
<td>MGT 211</td>
<td>Writing for Business</td>
<td>(3)</td>
</tr>
<tr>
<td>CIS 102</td>
<td>Document Formatting – MS Word</td>
<td>3</td>
</tr>
<tr>
<td>CIS 108</td>
<td>Introduction to Internet</td>
<td>2</td>
</tr>
<tr>
<td>CIS 150</td>
<td>Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 160</td>
<td>Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>OFF 048</td>
<td>Records Administration</td>
<td>1</td>
</tr>
<tr>
<td>CIS 114</td>
<td>MS Outlook/Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CIS 250</td>
<td>Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>CIS 251</td>
<td>Advanced Word Processing</td>
<td>2</td>
</tr>
<tr>
<td>Total Units Required</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>

Word Processing

Division of Business and Computer Information Systems

Division Dean – Dave Wassenaar

Faculty
Patricia Dellinger
Behzad Izadi
Alireza Moady
Patricia Pelachik
Donna Woo
Penn Wu

Counselors
Robert Grantham

ASSOCIATE IN SCIENCE DEGREE

WORD PROCESSING Program Code: 1S07818

This curriculum is designed to prepare students for employment in the field of word processing or any related area in which word processing skills are needed. A job simulation will give the students practical experience in all phases of word processing.

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) with an overall GPA of 2.0. At least 50 percent of all major course work must be completed at Cypress College.
Work Experience

Division of Business and Computer Information Systems

Division Dean – Dave Wassenaar

Counselors
Jean England
Robert Grantham

Work Experience (WKEX)

WKEX 092 C  WORK EXPERIENCE - GENERAL
1 - 3 Units  (Variable Unit Class) (May be taken for credit 3 times)
One hour lecture plus
Five hours (minimum) employment
in a business-related occupation per week.
Prerequisite: Must be enrolled in seven units, including work experience. This course is designed to provide instruction and general advisement related to actual work experience. For the employed student who has either not yet declared a major or whose employment and major are not related. Students must carry a minimum of seven units, which may include Work Experience. Students may enroll up to a maximum of three semesters, earning up to 9 units of credit.

WKEX 191 C  WORK EXPERIENCE - VOCATIONAL
1 - 4 Units  (Variable Unit Class) (May be taken for credit 4 times)
One hour lecture plus
Five hours (minimum) employment
in a business-related occupation per week.
CSU
Prerequisite: Must be enrolled in seven units, including work experience. This course is designed to provide instruction and general advisement related to actual work experience. Employment and major must be related. Students must carry a minimum of seven units, which may include Work Experience, and be appropriately declared a business major. Students may enroll up to a maximum of four semesters, earning up to 16 units of credit.
Faculty
North Orange County
Community College District

1830 W. Romneya
Anaheim, California 92801
(714) 578-8400

Board of Trustees
Jeffrey P. Brown
Barbara Dunsheath
Leonard L. Lahtinen
Michael B. Matsuda
Molly McClanahan
Donna Miller
M. Tony Ontiveros
Cypress College Student Trustee Ryan Billings
Fullerton College Student Trustee Natalie Baek

District Administration
Chancellor Ned Doffoney, Ed.D.
Vice Chancellor, Human Resources Jeff Horsley
Vice Chancellor, Finance and Facilities Fred Williams
Provost, School of Continuing Education Christine Terry

Cypress College Administration and Organizational Structure

PRESIDENT Dr. Michael Kasler
Executive Vice President Dr. Robert Simpson
Vice President Karen Cant
Executive Director, Foundation and Community Relations Raul Alvarez
Director, Institutional Research and Planning Santanu Bandyopadhyay

Educational Programs and Support Services — Executive Vice President
Business/CIS and Admissions & Records — Dave Wassenaar, Dean
Admissions and Records Registrar — Regina Ford

Career Technical Education and Economic Development — Steve Donley, Dean
Economic Development
Grants
Tech Prep
Title V
VTEA

Distance Education/Online Enrollment Management
Counseling and Student Development — Paul R. de Dios, Dean
Adult Re-Entry Program
Articulation
Assessment Center
Career Planning Center
Counseling Center
Disabled Students Program and Services — Dr. Kimberly Bartlett, Director
International Students Program — Yongmi Han, Manager
Matriculation — Kristine Nelson, Manager
Puente Program (Counseling)
Student Discipline
Teacher Preparation Program (Counseling Component)
Transfer Center

Fine Arts — Ting-Pi Joyce Carrigan, Dean
Study Abroad
Staff Development

Health Sciences — John Sciacca
Nursing — Darlene Fishman, Director
Health Services — Mary Lou Giska, Director

Language Arts — Eldon Young, Dean
Puente Program (Academic and Instructional Component)
Legacy Program

Library & Learning Resources — Eldon Young, Interim Dean

Science, Engineering & Math — Richard Fee, Dean
Learning Communities
Basic Skills

Physical Education and Athletics Director — Diane Henry, Dean
Petitions
Student Activities

Social Science — Nina DeMarkey, Dean
Honors/Service Learning
Teacher Preparation, Educational Interpreter, and Paraprofessional Programs (Academic Component)

Student Support Services — Dr. Richard Rams, Dean
Student Ambassadors
Extended Opportunity Programs & Services — Gilbert Contreras, Manager
Financial Aid — Keith Cobb, Director
Outreach and Recruitment
CalWORKS
CARE
TRAC
\section*{Division Structure}

\begin{tabular}{|l|}
\hline
\textbf{Division Dean, Business \& Computer Information Systems} & Dave Wassenaar \\
\hline
\textbf{Department Coordinator, Accounting and Real Estate} & \\
\hline
\textbf{Department Coordinator, Court Reporting} & Carolee Freer \\
\hline
\textbf{Department Coordinator, Computer Information Systems} & Jesse Saldana \\
\hline
\textbf{Department Coordinator, Management/Marketing/Sales/Retailing} & Patricia Kishel \\
\hline
\textbf{Department Coordinator, Computer Information Systems/Office Administration} & Alireza Moady \\
\hline
\end{tabular}

\begin{tabular}{|l|}
\hline
\textbf{Division Dean, Career Technical Education and Economic Development} & Steve Donley \\
\hline
\textbf{Department Coordinator, Airline and Travel Careers} & Kathleen Reiland \\
\hline
\textbf{Department Coordinator, Aviation} & Kathleen Reiland \\
\hline
\textbf{Department Coordinator, Air Conditioning/Refrigeration} & Richard Hock \\
\hline
\textbf{Department Coordinator, Automotive Collision} & Dan Snook \\
\hline
\textbf{Department Coordinator, Automotive Technology} & John Alexander \\
\hline
\textbf{Department Coordinator, Hospitality, Restaurant, Culinary Arts} & Lisa Clark \\
\hline
\textbf{Department Coordinator, Marine Service} & John Alexander \\
\hline
\end{tabular}

\begin{tabular}{|l|}
\hline
\textbf{Division Dean, Counseling and Student Development} & Paul R. de Dios \\
\hline
\textbf{Director, Disabled Students Program \& Services (DSP\&S)} & Dr. Kimberly Bartlett \\
\hline
\textbf{Director, Transfer Center/ Honors Counselor} & Penny Gabourie \\
\hline
\textbf{Manager, International Students Program} & Yongmi Han \\
\hline
\textbf{Manager, Matriculation} & Kristine Nelson \\
\hline
\textbf{Articulation Officer} & Stacey Howard \\
\hline
\textbf{Coordinator, Career Center} & Deann Burch \\
\hline
\textbf{Department Coordinator, Counseling} & Deidre Porter \\
\hline
\textbf{Counselor, Athletics/Physical Education} & Dana Bedard \\
\hline
\textbf{Counselor, Business/Computer Information Systems} & \\
\hline
\textbf{Counselor, Business \& Computer Information Systems, Hotel, Restaurant, Culinary Arts, and Veterans Affairs} & Robert Grantham \\
\hline
\textbf{Counselor, Career Technical Education} & Jane Jepson \\
\hline
\textbf{Counselor, Career Planning/Adult Re-Entry Program} & \\
\hline
\textbf{Counselor, DSP\&S} & Deborah Michelle \\
\hline
\textbf{Counselor, Fine Arts/International Students} & Renay Laguana-Ferinac \\
\hline
\textbf{Counselor, Fine Arts/Legacy Program} & Renee Ssensalo \\
\hline
\textbf{Counselor, Health Science} & Kelly Carter \\
\hline
\textbf{Counselor, Language Arts, Social Science and Teacher Preparation Program} & Denise Vo \\
\hline
\textbf{Counselor, Language Arts, Social Science and Puente Program} & Dr. Therese Mosqueda-Ponce \\
\hline
\textbf{Counselor, Language Arts/Social Science} & Daniel Pelletier \\
\hline
\textbf{Counselor, Science/Engineering/Mathematics} & Deidre Porter \\
\hline
\textbf{Learning Disabilities Specialist, DSP\&S} & \\
\hline
\end{tabular}
<table>
<thead>
<tr>
<th>Division, Department, or Program</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Division Dean, Fine Arts</strong></td>
<td>Ting-Pi Joyce Carrigan</td>
</tr>
<tr>
<td>Department Coordinator, Art</td>
<td>Joyce Patti</td>
</tr>
<tr>
<td>Department Coordinator, Art Computer Graphics/Multimedia</td>
<td>Michael Johnson</td>
</tr>
<tr>
<td>Department Coordinator, Communications/Journalism</td>
<td>Robert R. Mercer</td>
</tr>
<tr>
<td>Department Coordinator, Music</td>
<td>Kate Reid</td>
</tr>
<tr>
<td>Department Coordinator, Photography</td>
<td>Robert Johnson</td>
</tr>
<tr>
<td>Department Coordinator, Theater/Dance</td>
<td>Jim Hormel</td>
</tr>
<tr>
<td><strong>Division Dean, Health Science</strong></td>
<td>John Sciacca</td>
</tr>
<tr>
<td>Director of Nursing</td>
<td>Darlene Fishman</td>
</tr>
<tr>
<td>Department Coordinator, Dental Assisting</td>
<td>Elizabeth Pacheco</td>
</tr>
<tr>
<td>Department Coordinator, Dental Hygiene</td>
<td>Carol Green</td>
</tr>
<tr>
<td>Department Coordinator, Diagnostic Medical Sonography</td>
<td>Lynn Mitts</td>
</tr>
<tr>
<td>Department Coordinator, Health Information Technology</td>
<td>Rosalie Majid</td>
</tr>
<tr>
<td>Department Coordinator, Mortuary Science</td>
<td>Glenn Bower</td>
</tr>
<tr>
<td>Department Coordinator, Psychiatric Technology</td>
<td>Jaime Ramos</td>
</tr>
<tr>
<td>Department Coordinator, Radiologic Technology</td>
<td>Lynn Mitts</td>
</tr>
<tr>
<td>Department Coordinator, Nursing</td>
<td>Beth Piburn</td>
</tr>
<tr>
<td><strong>Division Dean, Language Arts</strong></td>
<td>Eldon Young</td>
</tr>
<tr>
<td>Department Coordinator, English</td>
<td>Randa Wahbe</td>
</tr>
<tr>
<td>Department Coordinator, English as a Second Language</td>
<td>Kathy Wada</td>
</tr>
<tr>
<td>Department Coordinator, Foreign Language</td>
<td>Alex Herrera</td>
</tr>
<tr>
<td>Department Coordinator, Reading</td>
<td>Sarah Jones</td>
</tr>
<tr>
<td>Department Coordinator, Communication Studies</td>
<td>Liana Koeppel</td>
</tr>
<tr>
<td><strong>Division Dean, Science/Engineering/Mathematics</strong></td>
<td>Richard Fee</td>
</tr>
<tr>
<td>Department Coordinator, Biology</td>
<td>Stephanie Spooner</td>
</tr>
<tr>
<td>Department Coordinator, Chemistry</td>
<td>Allison Gotoh</td>
</tr>
<tr>
<td>Department Coordinator, Mathematics</td>
<td>David Nusbaum</td>
</tr>
<tr>
<td>Department Coordinator, Physical Science, Computer Science</td>
<td>Ron Armale</td>
</tr>
<tr>
<td><strong>Division Dean, Social Science</strong></td>
<td>Nina DeMarkey</td>
</tr>
<tr>
<td>Director of Human Services</td>
<td>Gary Zager</td>
</tr>
<tr>
<td>Department Coordinator, Anthropology</td>
<td>Becky Floyd</td>
</tr>
<tr>
<td>Department Coordinator, Economics</td>
<td>Parwinder Sidhu</td>
</tr>
<tr>
<td>Department Coordinator, Ethnic Studies</td>
<td>Daniel Lind</td>
</tr>
<tr>
<td>Department Coordinator, Geography</td>
<td>Armando Mendoza</td>
</tr>
<tr>
<td>Department Coordinator, History</td>
<td>David Halahmy</td>
</tr>
<tr>
<td>Department Coordinator, Philosophy</td>
<td>vacant</td>
</tr>
<tr>
<td>Department Coordinator, Political Science</td>
<td>Gloria Badal</td>
</tr>
<tr>
<td>Department Coordinator, Psychology</td>
<td>Randy Martinez</td>
</tr>
<tr>
<td>Department Coordinator, Sociology</td>
<td>Larry Curiel</td>
</tr>
</tbody>
</table>
Instructional Divisions

Divisional faculty members and counselors have offices conveniently located adjacent to classrooms. In addition, each building provides lounge and study areas to encourage student participation in divisional activities.

Business and Computer Information Systems

BUSINESS EDUCATION BUILDING
The Business Division and Instructor offices are located on the second floor adjacent to Parking Lot 1. The building has three floors of instructional classrooms as well as a second floor Computer Information Systems Lab. Lobby areas on the first and second floors provide study areas and WiFi access.

PROGRAMS
Business Transfer Degrees, Business Vocational Certificates, Associate Business Degrees, Accounting, Computer Information Systems, Court Reporting, Real Estate, Marketing, and Management.

COUNSELORS
Grantham, Robert

DIVISION DEAN
Wassenaar, Dave

FACULTY
Dellinger, Patricia
Freer, Carolee
Izadi, Behzad
Jianto, Susana
Kishel, Patricia
Miller, Jeanne
Moady, Alireza
McKnight, Richard
Pelachik, Patricia
Saldana, Jesse
Woo, Donna
Wu, Penn

Career Technical Education and Economic Development

PROGRAMS
Administration of Justice, Air Conditioning and Refrigeration, Airline and Travel Careers, Automotive Collision Repair, Automotive Technology, Aviation - Commercial Pilot; Aviation - Management, Homeland Security, Hotel, Restaurant, Culinary Arts, Industrial Arts - Teaching, Marine Service Technician

COUNSELOR
Jepson, Jane

DIVISION DEAN
Donley, Steve

FACULTY
Alexander, John
Anderson, Carl Eric
Beard, Michael
Bird, Michael
Clark, Lisa
Hock, Richard
Klyde, Michael
Orozco, Luciano
Ramos, Larry
Reiland, Kathleen
Sallade, Douglas
Sandore, Russell
Snook, Dan
### Fine Arts

**PROGRAMS**
Art, Art Computer Graphics, Communications/Journalism, Dance, Multimedia, Music, Photography, Theater Arts

**COUNSELORS**
Laguana-Ferinac, Renay  
Ssensalo, Renee

**DIVISION DEAN**
Carrigan, Ting-Pi Joyce

**FACULTY**
Ball, Sheridan  
Beyer, George  
DeCoro, Helena  
Gallo, Joseph  
Giardina, Edward  
Holmes, Ian  
Hormel, James  
Jaffray, Sarah  
Johnson, Michael  
Johnson, Robert  
Landry, Erin  
Lester, Clifford  
Majarian, Mark  
Mercer, Robert  
Meyer, Barbara Braden  
Paiement, Paul  
Patti, Joyce  
Reid, Kathryn  
Schulps, Molly

### Health Science

**PROGRAMS**
Registered Dental Assistant  
Dental Hygiene  
Diagnostic Medical Sonography  
Diagnostic Medical Sonography Certificate  
Health Information Technology  
Health Care Management and Supervision Certificate  
Health Care Marketing and Sales Certificate  
Health Information Coding Specialist  
Medical Insurance Billing Specialist Certificate  
Medical Quality Review Assistant Certificate  
Medical Record Clerk Certificate  
Medical Staff Services Science  
Mortuary Science  
Registered Nursing  
Career Mobility Nursing  
Psychiatric Technician  
Radiologic Technology  
Radiology Assistant/Darkroom Technician Certificate

**COUNSELORS**
Carter, Kelly  
Vo, Denise

**DIVISION DEAN**
Sciacca, John

**DIRECTOR OF NURSING**
Darlene Fishman

**FACULTY**
Alvarez, Kathleen  
Ashburn, Shirley  
Billie, Jeannie  
Boettger, Kathleen  
Bower, Glenn  
Boyce, Jane  
Contreras, Kendra  
Corrales, Nancy  
Faraci, Michael  
Franks, Joseph  
Frianzea, Michael  
Frumkin, Sally  
Gomez, Rebecca  
Grande, Jolena  
Green, Carol  
Greico, Laura  
Harvey, Carol  
Herzog, Anna  
Johannsen, Christina  
Kruse, Kathleen  
Majid, Rosalie  
Markus, Denise  
Marquardt, Marcus  
McCament, David  
McNay, Sally  
Mitts, Lynn  
Pacheco, Elizabeth  
Piburn, Elizabeth  
Putman, Elizabeth  
Ramos, Jaime  
Rios-Miranda, Noemi  
Rydalch, Ina  
Swytak, Judy  
Valencia, Wendy  
Walker, Jane  
Winckler, Janet  
Zakala, Carol
Language Arts

PROGRAMS
English, ESL (English for Non-Native Speakers), Foreign Language, Communication Studies

COUNSELORS
Lawson, Velia
Mosqueda-Ponce, Therese
Pelletier, Daniel

DIVISION DEAN
Young, Eldon

FACULTY
Boria, Linda
Brydges, Michael
Chi, Hong
Daniels, Joan C
Deutsch, Nancy
Dickey, Cherie
Diep, Christie
Forman, Mary K.
Franklin, Cathy
Friess, Donna
Fujimoto, Janet
Ganer, Patricia
Gutierrez, Ruth
Herrera, E. Alexis
Jones, Sarah
Kashi, Barbara
Keel, Lawrence J.
Klein, S. Margaret
Koeppel, Liana
Lambros, John
Llanos, Kathy
Marshall, Barbara
McAlister, Kathleen
McPherson, Debra
Melodia, Joseph
Moran, Olga
Nabahani, Melanie
Oliveira, Fernando
Payne, John
Puma, Jessica
Robertson, Alison
Rosenberg, Stuart
Sonne, Kathryn
Takahashi, K. Mariye
Talwar, Ambika
Vescal, Keith
Wada, Kathryn
Wahbe, Randa
Wood, Jane

Library and Learning Resources

PROGRAMS
Library, Learning and Academic Resources

COUNSELORS
Lawson, Velia
Mosqueda-Ponce, Therese
Pelletier, Daniel

INTERIM DIVISION DEAN
Young, Eldon

FACULTY
Austin, Peggy
Doman, Monica
Pashaie, Billy
Peacock, Joyce

Physical Education

PROGRAMS
Physical Education - Teaching, Recreation

COUNSELOR
Bedard, Dana

DIVISION DEAN
Henry, Diane

FACULTY
Beidler, Larry
Bottiaux, Paul
Mohr, Margaret
Pickler, Brad
Pickler, Scott
Pinkham, William
Welliver, Nancy
Science/Engineering/Mathematics

PROGRAMS
Astronomy, Biological Sciences/Life Sciences, Biology, Chemistry, Computer Science, Physical Science, Engineering - Chemical, Civil, Electrical, Mechanical, Engineering Technology, Forestry, Geology, Industrial Technology, Mathematics, Physical Therapy, Physics, Pre-Dentistry, Pre-Medicine, Pre-Optometry, Pre-Pharmacy, Pre-Veterinary, Science Teacher Preparation

COUNSELOR
Porter, Deidre

DIVISION DEAN
Fee, Richard

FACULTY
Allison, Minnie
Armale, Ron
Castle, Victoria
Chiplunkar, Sujata
Coopman, Jennifer
De Roo, Robin
Flynn, Russell
Frey, Michael
Gibby, Cheryl
Gill, David
Gober, Joel
Godshalk, Kathryn
Gotoh, Allison
Hamman, Elizabeth
Lee, Eunju
Landis, Lenore
Mao, Chaolin
Mintzer, Alex
Morvan, Laurie
Mottershead, Allen
Nusbaum, David
Ogoshi, Fumio
Paek, Sylvia
Palmisano, Michelle
Petrie, David
Plett, Christina
Rajab, Adel
Sanchez, Tony
Sato, Dee Ann
Shrout, Cynthia
Spooner, Stephanie
Subramaniam, Brinda
Tomooka, Craig
Watson, Karen

Social Science

PROGRAMS

COUNSELORS
Lawson, Velia
Mosqueda-Ponce, Therese
Pelletier, Daniel

DIVISION DEAN
DeMarkey, Nina

FACULTY
Adams, Virgil III
Badal, Gloria
Cavin, Robert “Greg”
Curiel, Larry
Dedic, James
Doak, Les
Flores, Michael
Floyd, Becky
Goralski, Craig
Halahmy, David
Heusser, Willis
Johnson, Susan
Lewis, Carol
Lind, Daniel
Martinez, Randall
Mathews, Eapen-Peter
Mendoza, Armando
Odebunmi, Fola
Rhymes, Regina
Sandoval, Carlos
Seiling, Bryan
Sidhu, Parwinder
Young, Brandy
Zager, Gary
2010 - 2011 Administration and Faculty Accomplishments

Adams, Virgil III - Human Services
B.A., California State University, San Bernardino
M.A., Azusa Pacific University

Alexander, John - Automotive Technology
B.A., California State University, Long Beach

Allison, Minnie Tashima - Mathematics
B.S., Indiana State University
B.S.E.E., University of Dayton
M.M., Utah State University

Alvarez, Kathleen - Dental Hygiene
R.D.H., Los Angeles City College
B.S., M.S., California State University, Dominguez Hills

Armaie, Ron - Physics/Astronomy
B.S., California State Polytechnic University, Pomona
M.S., Ph.D., University of California, Irvine

Ashburn, Shirley - Nursing
B.S.N., M.S., Ohio State University

Austin, Peggy Jean - Librarian
B.A., University of California, Davis
M.L.S., University of California, Long Beach

Badal, Gloria - Political Science
A.A., Cypress College
B.A., California State University, Fullerton
M.A., California State University, Fullerton

Ball, Sheridan - Music
B.A., M.A., University of Northern Colorado
D.M.A., University of Southern California

Bandyopadhyay, Santanu - Director, IR & Planning
B.Sc., Calcutta University, India
M.B.A., Ph.D., Ohio University

Bartlett, Kimberly
A.A., Glendale Community College, Glendale Arizona
B.A., Arizona State University
Ph.D., University of California, Santa Barbara

Beard, Michael - Automotive Technology
B.A., California State University, San Diego
M.S., California State University, Long Beach

Bedard, Dana - Counselor/Student Development
B.A., University of California, San Diego
M.S., California State University, Long Beach

Beidler, Larry E. - Physical Education
A.A., Santa Ana College
B.A., California State University, Long Beach
M.Ed., Azusa Pacific University

Beyer, George - Music
B.M., M.M., California State University, Fullerton

Billie, Jeannie - Psychiatric Technician
RN, (MSN, PMH/NP) California State University, Long Beach

Boettger, Kathleen - Mortuary Science
B.A., California State University, Los Angeles
M.S., California State University, Fullerton

Borla, Linda - English
B.A., M.A., California State University, Sacramento

Bottiaux, Paul - Physical Education, Student Activities
B.S., Michigan State University
M.S., California State University, Fullerton

Bower, Glenn - Mortuary Science
B.A., California Lutheran University, Thousand Oaks
M.S., National University, San Diego

Boyce, Jane C. - Psychiatric Technology
B.S.N., California State University, Fullerton
M.S., California State University, Long Beach
Adult Nurse Practitioner

Brydges, Michael - Communication Studies
A.A., Mt. San Antonio College
B.A., M.A., California State University, Los Angeles

Cant, Karen - Vice President
A.A., Orange Coast College
B.A., California State University, Fullerton
M.A., California State University, Long Beach

Carz, Ting-Pi Joyce - Division Dean, Fine Arts
B.A., University of California, San Diego
M.A., University of California, Los Angeles

Carter, Kelly - Counseling/Student Development
A.A., Ricks College
B.S., Brigham Young University
M.A., California State University, Fresno

Castle, Victoria - Geology
A.A., Saddleback Community College, Mission Viejo
B.S., California State University, Los Angeles
M.B.A., Pepperdine University, Malibu

Cavin, Robert Greg - Philosophy and Religious Studies
B.A., University of Southern California
M.A., Fuller Theological Seminary
B.A., M.A., Ph.D., University of California, Irvine

Chi, Hong - English as a Second Language/Linguistics/Anthropology/Chinese
M.A., M.S., State University of New York at Albany
Ph.D., Louisiana State University

Chipunkar, Sujata - Biology
B.S., South Gujarat University, India
M.S., Ph.D., The Maharaja Sayajirau University of Baroda, India

Clark, Lisa - Hospitality Management
B.A., California State University, Sacramento

Contreras, Kendra - Dental Hygiene
R.D.H., B.S., University of Southern California
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Education</th>
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<tbody>
<tr>
<td>Coopman, Jennifer</td>
<td>Mathematics</td>
<td>B.S., University of California, Los Angeles M.S., California State University, Long Beach</td>
</tr>
<tr>
<td>Corrales, Nancy</td>
<td>Diagnostic Medical Sonography</td>
<td>ARRT, CRT, RT, RDMS B.S., University Autonoma de Baja California, Mexico</td>
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<tr>
<td>Curie, Larry</td>
<td>Sociology</td>
<td>B.A., M.A., California State University, Fullerton</td>
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<tr>
<td>Daniels, Joan C.</td>
<td>English</td>
<td>A.A., Cypress College B.A., M.A., California State University, Long Beach J.D., Western State University, College of Law</td>
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<tr>
<td>DeCoro, Helena</td>
<td>Music</td>
<td>B.A., M.A., California State University, Long Beach</td>
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<td>DeDios, Paul</td>
<td>Division Dean, Counseling and Student Development</td>
<td>A.A., Cerritos College B.A., University of California, Irvine M.S., California State University, Long Beach</td>
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<tr>
<td>Dedic, James</td>
<td>Sociology/Social Work</td>
<td>B.A., M.A., California State University, Fullerton M.S.W., University of Southern California</td>
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<tr>
<td>Dellinger, Patricia</td>
<td>Computer Information Systems</td>
<td>B.A., California State University, Long Beach</td>
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<td>DeMarkey, Nina</td>
<td>Division Dean, Social Sciences</td>
<td>B.A., Northeastern Illinois University M.A., Chapman University</td>
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<td>De Roo, Robin</td>
<td>Chemistry</td>
<td>B.A., M.A., California State University, Fullerton</td>
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<td>Deutsch, Nancy</td>
<td>English/Reading</td>
<td>A.A., Bee County College, Texas B.A., Baylor University M.A., California State University, Long Beach</td>
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<td>Dickey, Cherie</td>
<td>English/Reading</td>
<td>B.A., M.A., California State University, Long Beach</td>
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<td>Diep, Christie Rossier</td>
<td>English</td>
<td>A.A., Golden West B.A., M.A., California State University, Fullerton</td>
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<td>Doak, Leslie</td>
<td>Geography</td>
<td>B.A., Aurora University M.A., California State University, Fullerton</td>
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<td>Doman, Monica Maldonado</td>
<td>Library</td>
<td>B.A., University of California, Los Angeles M.L.S., University of California, Los Angeles</td>
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<td>Donley, Steven R.</td>
<td>Division Dean, Career Technical Education and Economic Development</td>
<td>B.A., M.A., California State University, Long Beach</td>
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<td>Gabourie, Lillian (Penny) - Honors Counselor/Transfer Center Director</td>
<td>B.A., California State University, Fullerton</td>
<td>Hamman, Elizabeth - Mathematics</td>
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<td>M.S., University of LaVerne</td>
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<td>Gallo, Joseph - Music</td>
<td>B.A., M.A., California State University, Los Angeles</td>
<td>Han, Yongmi - Manager, ISP</td>
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<td>Ganer, Patricia - Communication Studies</td>
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<td>Harvey, Carol - Nursing</td>
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<td>Giardina, Edward - Fine Arts</td>
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<td>Henry, Diane - Division Dean, Physical Education/Athletics</td>
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<td>Gibby, Cheryl - Mathematics</td>
<td>B.A., California State University, Long Beach</td>
<td>Herrera, E. Alexis - Spanish</td>
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<td>Herzog, Anna - Nursing</td>
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<td>Gober, Joel R. - Biology</td>
<td>B.A., M.S., Ph.D., Southern Illinois University</td>
<td>Heusser, Willis - Philosophy and Religious Studies</td>
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<td>Godshalk, Kathryn - Mathematics</td>
<td>B.A., California State University, Long Beach</td>
<td>Hock, Richard - Air Conditioning/Refrigeration</td>
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<td>Gomez, Rebecca R. - Health Information Technology</td>
<td>B.S., University of California, Los Angeles</td>
<td>Holmes, Ian - Art Computer Graphics</td>
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<td>Goralski, Craig T. - Anthropology</td>
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<td>Gotoh, Allison - Chemistry</td>
<td>B.S., M.S., Ph.D., University of California, Irvine</td>
<td>Howard, Stacey G. - Counseling/Student Development (Articulation Officer)</td>
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<td>Grande, Jolena - Mortuary Science</td>
<td>A.S., Cypress College</td>
<td>Izadi, Behzad</td>
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<td>Grantham, Robert - Counselor/Student Development</td>
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<td>Jepson, Jane C. - Counseling/Student Development</td>
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<td>Green, Carol - Dental Hygiene</td>
<td>R.D.H., B.S., University of Southern California</td>
<td>Jianto, Susana - Computer Information Systems</td>
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<td>Greico, Laura - Radiologic Technology</td>
<td>A.A., Fullerton College</td>
<td>Johannsen, Tina - Psych Tech</td>
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<td>A.R.R.T., C.R.T., B.VE., California State University, Long Beach</td>
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<td>Halahmy, David G. - History</td>
<td>B.A., University of California, Los Angeles</td>
<td>Johnson, Michael L. - Art</td>
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Lester, Clifford - Photography
B.A., Brooks Institute of Photography

Lewis, Carol P. - History
B.A., M.A., University of California, Riverside

Lin, Jian-er - English
B.A., Fujian Teachers University, China
M.A., University of Wisconsin
Ph.D., University of North Dakota

Lind, Daniel Joseph - Ethnic Studies
B.A., Bowdoin College
M.P.S., Cornell University
M.A., Claremont Graduate University

Llanos, Kathleen - English as a Second Language
B.A., San Jose State University
M.A., TESOL Certificate, California State University, Fullerton

Markus, Denise - Nursing
ADN, Cypress College
B.S.N., University of Phoenix
M.S.N., University of Phoenix

Marquardt, Marcus - Psych Tech
A.A., A.S., Citrus College
B.A., California State University, Los Angeles
M.A., California State University, Los Angeles

McAlister, Kathleen - English
B.A., University of California, Los Angeles
M.A., Brown University
C. Phil., University of California, Los Angeles

McCament, David - Mortuary Science
A.S., Cypress College
MFS, National University
B.A., National University

McKnight, Richard - Computer Information Systems
B.S., California State University, Long Beach
M.A., Chapman University

McNay, Sally - Nursing
B.S.N., M.S.N., California State University, Dominguez Hills
E.C.D., Grant MacEwan College

McPherson, Debra - English as a Second Language
M.A., Linguistics, University of Texas
TESOL, California State University, Fullerton

Majarian, Mark - Theater Arts
B.A., Pomona College
M.F.A., University of California, Los Angeles

Majid, Rosalie - Health Information Technology
B.S., University of Texas Medical Branch, Galveston

Mao, Chaolin - Mathematics
Ph.D., University of Southern California

Marshall, Barbara - English
B.A., S.U.N.Y. at Buffalo
M.A., M.Ed., University of Hartford
Ph.D., University of California, Irvine
Nabahani, Melanie - English
B.A., M.A., California State University, Fullerton

Nelson, Kristine - Matriculation Manager
A.A., East Los Angeles College
B.A., M.S., California State University, Los Angeles

Nusbaum, David - Mathematics
B.S., M.Ed., University of California, Los Angeles
M.S., University of California, Irvine

Odebunmi, Fola - Economics
B.A., Chapman University
M.A., California State University, Fullerton

Ogoshi, Fumio - Biology
B.A., University of San Diego
Ph.D., University of California, Irvine

Oliveira, A. Fernando - Spanish/Portuguese
M.A., University of California, Irvine

Orozco, Luciano M. - Automotive
B.A., California State University, Los Angeles

Pacheco, Elizabeth - Dental Assisting
A.A., Riverside Community College
B.V.E., California State University, San Bernardino

Paek, Sylvia - Mathematics
A.A., El Camino College
B.S., M.S., University of California, Irvine

Paiement, Paul - Art
B.F.A., Minneapolis College of Art and Design
M.F.A., University of Southern California

Palmisano, Michelle - Biology
B.E., Vanderbilt University
M.S., Ph.D., University of California, San Diego

Pashaie, Billy - Librarian
B.A., M.L.I.S., University of California, Los Angeles
M.A., California State University, Los Angeles

Patti, Joyce - Art
B.A., University of California, Los Angeles
M.F.A., Yale University

Payne, John - Language Arts
B.A., M.A., California State University, Long Beach
M.F.A., California State University, Long Beach

Pelachik, Patricia A. - Computer Information Systems/Office Administration
B.A., Cleveland State University
M.B.E., Eastern Michigan University
M.S., Nova University

Pelletier, Daniel - Counseling/Student Development
A.A., Saddleback College
B.A., California State University, Fullerton
M.A., Azusa Pacific University
Piburn, Elizabeth (Beth) - Nursing
RN, Chestnut Hill Hospital School of Nursing
A.S., Cypress College
B.S.N., California State University, Fullerton
M.S.N.; CNS, California State University, Dominguez Hills

Pickle, Brad A. - Physical Education
A.A., Cypress College
B.S., California State University, Fullerton
M.S., California Lutheran College

Pickler, Scott - Physical Education
A.A., Cypress College
B.A., San Diego State University
M.S., California Lutheran College

Pinkham, William - Physical Education
B.S., California State University, Fullerton
M.A., United States International University

Plett, Christina - Mathematics
A.A., Fullerton College
B.A., California State University, Long Beach
M.S., University of California, Irvine

Porter, Deidre M. - Counseling/Student Development
B.A., University of California, Irvine
M.A., Loyola Marymount University

Puma, Jessica - Spanish
B.A., University of California, Los Angeles
M.A., University of California, Irvine

Putnam, Elizabeth - Nursing
A.A., L.A. Harbor College
B.S.N., California State University, Long Beach
N.P., Harbor-UCLA
M.S.N., California State University, Long Beach

Rajab, Adel - Biology
B.S., M.S., California State University, Long Beach
Ed.D., University of California, Irvine and University of California, Los Angeles

Ramos, Jaime - Psych Tech
M.S.N./Ed. RN, University of Phoenix

Rams, Richard - Division Dean, Student Support Services
B.A., University of California, Riverside
M.S.Ed., University of Kansas
Ed.D., University of California, Irvine

Ransom, Alan L., C.M.A. - Accounting
A.A., Fullerton College
B.A., California State University, Fullerton
M.A., California State University, Dominguez Hills

Reid, Kathryn - Music
B.M., Western Michigan University
M.M., D.M.A., University of Miami

Reland, Kathleen - Airline and Travel Careers
B.S., University of San Francisco
M.A., California State University, San Marcos

Rhymes, Regina - Sociology
B.A., M.A., California State University, Fullerton
M.S., University of Phoenix

Robertson, Alison - English as a Second Language
B.A., California State University, Fullerton
MTESL, Arizona State University

Rosenberg, Stuart - English
B.A., California State University, Long Beach
M.P.W., University of Southern California

Rydalch, Ina M. - Dental Hygiene
A.A., Cerritos College, Dental Hygiene
B.V.E., M.A., California State University, Long Beach

Saldana, Jesse - Business/Computer Information Systems
A.A., Fresno Community College
B.S., California State University, Fresno
M.B.A., California State University, Long Beach

Sallade, Douglas - Air Conditioning/Refrigeration
B.S.E.T., California Polytechnic University, San Luis Obispo

Sandoval, Carlos - Psychology
B.A., California State University, Fullerton
M.A., Pepperdine University

Sato, Dee Ann - Biology
B.S., University of Washington
M.S., University of California, Davis

Schulps, Molly - Fine Arts
M.F.A., California State University, Northridge

Sanchez-Duran, José Antonio - Biology
B.A., California State University, Fullerton
Ph.D., University of Missouri, Columbia

Sciaccia, John - Health Science Dean
B.A., University of Massachusetts
M.P.H., University of Hawaii
M.A., Central Michigan University
Ph.D., Purdue University

Seiling, Bryan - History
B.A., University of Southern California
M.A., University of Southern California

Shrout, Cynthia - Mathematics
B.S., Phillips University
M.A., California State University, Fullerton

Sidhu, Parwinder - Economics
B.A., M.S., Ph.D., Guru Nanak Dev University, India

Snook, Dan - Automotive Collision
A.A., Chaffey College

Sonne, Kathryn T. - English
B.A., M.A., Brigham Young University

Spooner, Stephanie - Biology
B.S., M.S., California State University, Long Beach
Sensalo, Renee - Counseling/Student Development
B.A., M.S., California State University, Long Beach

Subramaniam, Brinda - Physics/Engineering
B.S., M.S., Jiwaji University, India
Ph.D., Jiwaji University, India

Swytak, Judy - Nursing
A.A., Golden West College
B.S.N., M.S.N., California State University, Dominguez Hills

Takahashi, K. Mariye - Japanese
B.A., M.A., University of California, Los Angeles

Talwar, Ambika - English/Comparative Literature
B.A., Lady Shri Ram College, Delhi University
M.A., Delhi University, Delhi, India
M.A., California State University, Fullerton

Tomooka, Craig - Chemistry
B.S., University of California, Irvine
M.S., Ph.D., California Institute of Technology

Valencia, Wendy - Nursing
B.S.N., California State University, Dominguez Hills
M.S.N., University of California, Los Angeles

Villaseñor, C. Doreen - EOPS Counselor
B.A., California State University, Fullerton
M.A., California State University, Long Beach

Vo, Denise - Counseling/Student Development
B.A., California State University, Long Beach
M.S., National University

Von Soosten, Ronald - Computer Information Systems
A.A., Fullerton College
B.S., California Polytechnic State University, Pomona

Wada, Kathryn - English as a Second Language
B.A., University of California, Irvine
M.A., California State University, Long Beach

Wahbe, Randa B. - Comparative Literature
B.A., California State University, Los Angeles
M.A., California State University, Fullerton
Ed.D., Argosy University, Orange

Walker, Jane - Nursing
ASN, Santa Ana College
B.A., California State University, Fullerton
M.S.N., California State University, Dominguez Hills

Wassenaar, David - Dean - Admission and Records and Business/Computer Information Systems
B.A., Calvin College
M.S.B.A., California Polytechnic State University, Pomona

Watson, Karen - Mathematics
B.A., M.A., California State University, Fullerton

Welliver, Nancy - Physical Education
B.A., California State University, Long Beach
M.Ed., Azusa Pacific University

Winckler, Janet M. - Nursing Education
B.S.N., M.S.N., California State University, Fullerton

Woo, Donna L. - Computer Information Systems/Office Administration
B.A., M.A., Michigan State University

Wood, Jane - English as a Second Language
B.A., University of Michigan
M.A., California State University, Long Beach

Wu, Penn - Computer Information Systems

Young, Brandy - Psychology
B.A., University of California, Los Angeles
M.A., Ph.D., University of California, Irvine

Young, Eldon - Division Dean, Language Arts
B.A., University of California, Los Angeles
M.A., Loyola Marymount University

Zager, Gary - Human Services
B.A., M.S., California State University, Fullerton

Zakala, Carol A. - Dental Hygiene
A.A.S., Hudson Valley Community College
B.S., University of Bridgeport
M.S., State University of New York at Buffalo
Professors Emeritus

Alibrandi, Lucinda ...................................................Human Services
Atkinson, Thomas W. ........................................ Business
Axtine, Donna .......................................................... Business/Math
Azen, Robert ......................................................... Biology
Baca, J. Anthony .................................................... Physical Education
Baldwin, William .................................................. Computer Science
Bales, Elbert N. .................................................... Counseling
Barrier, Catherine ................................................ Library
Beamer, Edwin ........................................................ Counseling
Bedard, Donald ........................................... Vice President, Student Personnel Services
Berger, Ellen .......................................................... Art
Berger, Ellen ........................................................ Language Arts
Bilyeu, Dean ........................................................... Counseling
Blanchard, Donald ........................................... Automotive Technology
Bloom, Barbara .................................................... Health Science
Boettger, Robert ................................................ Mortuary Science
Boyle, Joseph ...................................................... Political Science/History
Broadwell, Ronald B. ........................................... Music
Brocket, Carolyn ................................................ Psychiatric Technology
Brown, Dana ............................................. Health Information and Radiologic Technology
Brown, Kaleta .................................................. Dean, Fine Arts/Theater Arts
Bruce, Kay ...................................................... Dean, Library and Instructional Development
Bruce, Malcolm ................................................ Computer Science
Buchanan, John ................................................ History
Buckbee, Thomas ............................................... Engineering Technology
Burchfield, Jerry ................................................ Photography
Bush, Robert ........................................................ Aeronautics
Byrnes, Nancy R. ............................................. Dental Hygiene; Vice President, Educational Support and Planning
Calhoun, Fred ........................................................... Counseling
Campagna, Anna K. ........................................... Nursing Education
Campbell, Mary .................................................. Business
Campellone, Donna ........................................ Division Dean, Health Science
Canova, Lawrence ................................................ Psychology
Capsuto, Michael ................................................ Accounting
Carlisle, Eugene ................................................ History
Centoine, William ................................................ Chemistry
Chamness, Robert ............................................... Reading/English
Chen, Helen ........................................................ Chemistry
Chin, Penny .......................................................... Nursing
Claffey, William J. ................................................ Business
Clay, Joan ........................................................... Nursing
Cooney, Neill ........................................................... Philosophy
Cooper, Thomas ................................................ Counseling/Articulation
Cooper, Will ........................................................ Sociology
Coppess, Alice ................................................... Nursing Education
Cross, Robert ...................................................... Dental Technology
Dainko, John .................................................... Auto Collision Repair
Davis, Mary Kay ................................................ Dental Assisting

Dawson, Shirley .................................................... Dental Assisting
DeMallac, Gail ........................................................ French/ESL
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For nearly a half-million students, Cypress College has been a springboard to their dreams. Come to Cypress College and Motivate Your Mind!