

**LONG BEACH CITY COLLEGE**  
**CATALOG 2011 - 2012**  
VOLUME LIV



LONG BEACH COMMUNITY COLLEGE DISTRICT  
LONG BEACH, CALIFORNIA



Welcome to Long Beach City College. On behalf of our faculty, staff and administrators, we are proud to offer an education and tradition known for academic excellence and superior training.

As a part of the California Community College System, we participate in one of the largest systems of higher education in the world. Long Beach City College serves over 30,000 students and offers a wide variety of educational options. Our range of ages, educational goals and diverse student population contribute to your outstanding education.

Long Beach City College offers a broad range of certificate and degree programs and prepares many students to transfer to a four-year institution to further their education. LBCC also provides career and technical education and economic or workforce development programs on campus and in the communities we serve.

At LBCC, we educate, engage and empower our students. We strongly believe that the future of our communities lies in an educated citizenry and that education begins here at LBCC.

Eloy Ortiz Oakley  
Superintendent-President



Welcome to Long Beach City College. The faculty are here to provide you with an excellent education. At LBCC you can receive the preparation you need to begin, or change, a career by selecting one of our outstanding certificate programs. If you choose to transfer to a four-year institution, you can complete your general education courses for a Baccalaureate degree and receive certification for these units. Also, you can develop an area of concentration that will allow you to select a major and gain entry into one of the numerous four-year institutions located in Southern California. Counseling and other student services programs help you in your course

selection, career preparation and transfer goals.

It is a privilege to share in your education. Our faculty look forward to meeting you, talking with you, working with you, and learning with you.

Janice Tomson  
Academic Senate President

**Summer Sessions 2011**

**June 20** Summer Session Classes Begin  
**July 4** Holiday (Independence Day)

**Fall Semester 2011**

**August 15** Begin Fall Classes  
**September 5** Holiday (Labor Day)  
**September 29** Deadline to Apply for December Graduation  
**November 11** Holiday (Veterans Day)  
**November 24-25** Holiday (Thanksgiving)  
**December 8-16** Final Exams - Refer to Fall Schedule of Classes  
**December 16** Fall Classes End  
**December 17-January 8** Winter Recess

**Spring Semester 2012**

**January 9** Spring Classes Begin  
**January 16** Holiday (King's Day)  
**February 17** Holiday (Lincoln's Birthday)  
**February 20** Holiday (Washington's Birthday)  
**February 23** Deadline to Apply for May Graduation  
**April 8-14** Spring Recess  
**May 14-22** Final Exams - Refer to Spring Schedule of Classes  
**May 22** Spring Classes End  
**May 23** Graduation  
**May 28** Holiday (Memorial Day)

For more detailed registration information, refer to the Schedule of Classes online or the college website.

**College Campus Locations**

<p><b>Liberal Arts Campus</b>                  4901 East Carson Street                  Long Beach, California 90808                  (562) 938-4111</p>	<p><b>Pacific Coast Campus</b>                  1305 East Pacific Coast Highway                  Long Beach, California 90806                  (562) 938-3903</p>
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**Off-Campus Location:**

Office of Economic and Resource Development  
 4900 Conant St, Building 2, Suite 108  
 Long Beach, California 90808

**For Other Off-Site Locations Contact:**

Office of Extended Instruction (562) 938-4126

**Accreditation**

Long Beach City College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges (WASC), 10 Commercial Blvd, Ste 204 Novato, CA 94949 (415) 506-0234, an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.

**Curriculum Offerings**

The college reserves the right to determine which of the courses listed in the catalog are to be offered in each semester. Changes in curriculum or course content may occur after the information cut-off date of this catalog, February 2011.

**Schedule of Classes**

Long Beach City College publishes a schedule of classes online before the beginning of each semester indicating each course to be offered. Schedules are available on the college website (<http://www.lbcc.edu>). Changes in curriculum offerings or fees charged may occur after the schedule is published.

In compliance with Section 508 of the Workforce Investment Act of 1998, the Long Beach Community College District provides the catalog and other college publications in alternative formats. If you are an individual who requires special assistance and would like materials in an alternative format, contact the Disabled Students Programs & Services department at (562) 938-4558 or (562) 938-4833 TDD. The Disabled Students Programs & Services department is located on the Liberal Arts Campus (LAC), located at 4901 E. Carson St., Long Beach, CA 90808.

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## College Vision and Mission

### 2020 Vision

Long Beach City College prepares students to be successful in the world of the 21<sup>st</sup> century.

Sitting at a global crossroads, the college constantly crafts its educational programs to meet the needs of students living in:

- A world of increased complexity and speed
- A world both global and remarkably accessible
- A world technologically advanced but intensely interdependent.

A culturally diverse college, Long Beach City College welcomes all people who desire to grow and serve.

The college nurtures a vibrant environment that cultivates a passion for learning, which continues for life.

### Mission

Long Beach City College is a comprehensive community college that provides open and affordable access to quality associate degree and certificate programs, workforce preparation, and opportunities for personal development and enrichment. The college develops students' college-level skills and expands their general knowledge, enables their transfer to four-year institutions, prepares them for successful careers or to advance in their current careers, and fosters their personal commitment to lifelong learning. Based upon a commitment to excellence, college programs foster and support the intellectual, cultural, economic, and civic development of our diverse community.

## College Functions

### Transfer

The first two years of courses satisfying either the general education or major requirements for a four-year college or university (Baccalaureate) degree in the University of California system, California State University system or other colleges and universities to which our students commonly transfer.

### General Education

A community college (Associate) degree that includes a broad general education and selected fields of concentration most appropriate to the educational and occupational needs of our community.

### Occupational Education

Specialized education and training in selected occupational fields leading to job skills preparation, promotion, retention and certification.

### Developmental Education

Educational and learning assistance to help students succeed in a community college program once they have demonstrated minimum communication and computational levels.

### Support Services

A multifaceted support program to assist students to assess their abilities and to establish and achieve realistic educational and career goals.

### Beyond the Classroom

An appropriate co-curricular program including practical educational experiences, as well as opportunities for growth in leadership and citizenship.

### Life-Long Learning

Selected continuing education programs and courses that are cost effective and provide life-long learning and training opportunities.

### Economic and Resource Development

Economic and Resource Development provides workforce preparation programs and services to individuals to develop entry-level skills, new technical skills, career advancement, and to regional industry to ensure business attraction, retention and global competitiveness.

## General Education Outcomes (GEOs)

The College's commitment to excellence in student learning incorporates the following expected General Education Outcomes from the educational process. GEOs are statements that define the knowledge, skills, and perspectives acquired by students who satisfy the College's general education requirements.

**Aesthetics and Creativity:** The ability to appreciate a range of cultural expression, including art, music, dance, theater, literature, and film, as well as the ability to generate useful and original ideas.

**Civic Engagement:** The ability to participate actively in a democracy that respects the rights of diverse peoples and cultures.

**a. Democracy:** Develop and promote knowledge and skills to become informed participants who play an active and effective role in our society.

**b. Cultural Sensitivity/Diversity:** Appreciate and promote respect of individual differences that embraces the complex ways people integrate into their societies, cultures, and subcultures in order to participate in both our society and in diverse group activities.

**Communication:** The ability to effectively interchange ideas and information with diverse audiences and to act within the framework of a society based on information and service.

**a. Foundational Skills:** The ability to effectively read, write, listen, speak, and/or sign.

**b. Teamwork & Collaboration:** Cooperate and work effectively with individual and groups using appropriate social skills.

**c. Information Competency:** Find, use, manage, evaluate, and convey information efficiently and effectively.

**Critical Thinking:** The ability to analyze and evaluate a spectrum of ideas that are represented by theories, images, and concepts.

**a. Science Literacy:** Apply the scientific method to gain an evidence-based understanding of phenomena.

**b. Numeric Literacy:** Apply arithmetic and mathematical skills necessary to solve everyday problems.

**Wellness:** The ability to make lifestyle choices that promote physical, mental, and social health.

### **College History**

Since 1927, Long Beach City College has been at the heart of the community providing a culturally diverse, vibrant environment, with a commitment to excellence in student learning.

LBCC is a two-year community college that encompasses state of the art, technology-rich teaching and learning environments, traditional and non-traditional instructional programs, strong community partnerships, and economic and workforce development initiatives that prepares students to be successful in the world of the 21<sup>st</sup> century.

As one of the largest of the 109 community colleges in California, LBCC is governed by a five-member, elected Board of Trustees that serves the cities of Long Beach, Signal Hill, Lakewood and Santa Catalina Island. It offers two-year associate degrees and certificate programs which prepare students for transfer to four year institutions, career advancement and personal development.

With seven schools to house its instructional programs, LBCC promotes program offerings in the Creative Arts and Applied Sciences, Language Arts, Health, Science and Math, Physical Education and Athletics, Trades and Industrial Technologies, Business and Social Science and Learning Resources, Teaching and Technologies.

The College has received state awards for its registered nursing and childcare programs and is widely known for its extensive and technologically advanced commercial music and electronics programs. It has special training partnerships with several corporations.

*Community College Week* has reported that LBCC is one of the largest and most effective community colleges in the nation and *Cal-Hi Sports* has twice selected the Vikings as the best community college athletic program in the nation.

The college was initially housed at Woodrow Wilson High School until the 1933 earthquake, which destroyed the building. Classes were held outside and in tents at neighboring Recreation Park until the college moved to the Liberal Arts Campus at Carson Street and Clark Avenue in 1935.

From its earliest days, the college established traditions that are alive today, such as the mascot, Ole, and team name, Vikings. A student newspaper, yearbook, and social, service and intramural programs were launched in the first year. Academic honors included having the state's top junior college debate team. Athletic honors included championships in wrestling, baseball, men's and women's swimming and the state championship in men's basketball, all in the 1928-29 school year.

The college grew rapidly during and after World War II and added the Pacific Coast Campus, formerly Hamilton Junior High, in 1949. Numerous extension campuses and satellite locations were added as growth continued into the early 1970s. As a result of

state law, the college separated from the Long Beach Unified School District.

Changes in the workplace, and in the community's demographics, brought about rapid changes in the mid-1980s. The influx of Southeast Asian refugees led to extensive courses in English as a Second Language and other programs to assist and acculturate this burgeoning population. A later wave of amnesty applicants ensured that ESL stayed the college's largest program. The amnesty program garnered awards as a state model.

In 1987, the college completed a decade of negotiations with the City of Long Beach to acquire the neighboring Veteran's Stadium. Through the sale of surplus land to another neighbor, McDonnell Douglas (now Boeing), the college was able to finance renovations required to upgrade the facility.

Within the last decade, the college celebrated completion of an all-weather track and redesigned athletic fields, a multi-million-dollar upgrade of its swimming pool and state-of-the-art math and science building at the Liberal Arts Campus.

Construction of new facilities and modernizations at both campuses began with the passing the Measure E Bond in 2002. Today, computer labs, multimedia classrooms and a host of non-traditional course offerings like online, teleweb and hybrid courses accommodate new communities of learners, allowing Long Beach City College to address a world both globally and, as it has done for the past 80 years, locally.

### **Extended Instruction/Off-Campus Programs**

Off campus classes are offered at several community sites to facilitate student access to a variety of course offerings. These sites enable students to attend classes at convenient locations near their homes or work.

Students can enroll for these classes through the regular college registration process. For further information, consult the schedule of classes or call (562) 938-4126.

### **Senior Studies Program**

Long Beach City College Senior Studies Program offer classes for career or educational development and mind-body healthy living. Special theater programs, music, exercise and stimulating lectures are designed for the active adult (50 and older). Mini tours to museums and galleries.

The Senior Center is located at the Pacific Coast Campus, Room FF 108. For further information, call (562) 938-3048.



### ***Distance Learning***

Distance Learning courses are designed to be equivalent and comparable to their on-campus course's version in quality, learning outcomes, special requirements, course fees, and credit. Students can enroll in these classes through the regular college registration process (walk-in or by accessing the OLE On-line Experience page at <http://www.lbcc.edu/ole.cfm>). Distance Learning students are offered equivalent online services and support as on-campus students. Electronic library services are extended beyond the services available on campus and include 24/7 online reference desk, resources, and electronic databases and catalog access. For further information access the Distance Learning website <http://de.lbcc.edu/> call (562) 938-4818 or email [dl@lbcc.edu](mailto:dl@lbcc.edu) There are two types of Distance Learning courses at LBCC:

#### **Online Courses**

Online courses are offered entirely online and do not require students to be present on campus. Online courses are facilitated through a remote access by using a personal computer, Internet connection, and a valid E-mail address. Students can access these courses at home, at off-campus public facilities, or make use of the college's Academic Computing Centers to log on to their course website. Online courses may include video content that can be accessed on the Web, through the LBCC cable station, YouTube channel, or on DVDs.

#### **Hybrid Courses**

Hybrid courses meet partially online and include some required on-campus / face-to-face meeting(s). The on-campus meetings are either regularly or irregularly scheduled. Students can access the online portion of these courses at home, at off-campus public facilities, or make use of the college's Academic Computing Centers to log on to their course website. Check the Distance Learning e-Course Schedule at <http://de.lbcc.edu/e-courses.html> for information about the requirements for the hybrid course of your interest.

### ***Honors Program and Courses***

For over a quarter of a century, high-achieving LBCC students have flocked to the college's Honors Program for the intellectual challenge it offers. The LBCC Honors Program offers courses in more than a dozen disciplines to serve intellectually ambitious students.

Students who complete the Honors Program have proven records of success in their applications to competitive baccalaureate programs as well as to professional and graduate schools.

Major benefits of the program include Scholarships, Transfer Program agreements and President's Scholar and Academic Senate Scholar Awards.

For detailed information about the LBCC Honors Program, call the Honors Program Office at (562) 938-4354 or visit us on the web at <http://honorsprogram.lbcc.edu>.

#### **Rotary Club Honors Scholarships**

Each year the Long Beach Rotary Scholarship Foundation awards Rotary Honor Scholarships to Long Beach Unified High School students who will be

attending Long Beach City College. Recipients must maintain a 3.0 GPA or higher and be enrolled in the Honors Program once they attend Long Beach City College.

In addition, the Long Beach City College Scholarship office has hundreds more scholarships open to all Long Beach City College Students. Scholarship applications are available in September at <http://scholarships.lbcc.edu>. For more information please stop by the scholarship office in building O or call us at (562) 938-4267.

#### **Transfer Programs**

The LBCC Honors Program is a member of the UCLA, UCI, UCR, UCSC, CSUDH, CSUF (Honors), CSULB (Honors), SDSU (Honors), Chapman University, LaSierra University (Honors), Pitzer College, Pomona College and Whitman College Transfer Programs and can offer its graduates priority transfer consideration for admission to these universities for the Baccalaureate Degree. For further details about these and developing alliances, contact the Honors Program Office at (562) 938-4354.

Long Beach City College's Transfer Academy provides students an opportunity to fast track their transfer to a four-year university/college. Students will have access to a number of campus resources to ensure student success and facilitate a smooth transfer process. Through their engagement with the program, faculty and staff, Transfer Academy participants will utilize the knowledge and skills to ensure their success at Long Beach City College and fast track their transfer to the college/university of their choice. For further details, please call the Transfer Academy Coordinator at 562-938-4768.

#### **President's Scholar Honors**

The President's Scholar designation with the associate degree is awarded in recognition of outstanding achievement in the college's Honors Program.

- I. To qualify, a student must complete a minimum of six Honors courses with a 3.5 or higher GPA. (Minimum units required: 15).\*

In addition, a student must maintain a Long Beach City College cumulative GPA of 3.5 or higher with at least 80 percent of all units attempted in courses numbered 1-99.\* A student must also satisfy the college's "units in residency" requirement.

\*NOTE: Exceptions to the total number of units required and to the 80 percent rule may be made at the discretion of the Honors Program Committee.

- II. The President's Scholar designation is entered on the transcript, next to the associate degree notation. In addition, qualifying students receive a gold seal on their diplomas and are given special recognition at commencement. President's Scholars are the first to receive their diplomas and are awarded medallions, which they wear at graduation.
- III. As part of the President's Scholar award, students customarily receive a cash scholarship at graduation.

**Academic Senate Scholar Honors**

The Academic Senate Scholar designation upon transfer is awarded in recognition of outstanding achievement in the college’s Honors Program.

- I. To qualify, a student must complete a minimum of six Honors courses with a 3.5 or better GPA.

In addition, a student must maintain a Long Beach City College cumulative GPA of 3.5 or higher with at least 80 percent of all units attempted in courses numbered 1-99.\* A student must also satisfy the college’s “units in residency” requirement.

The Academic Senate Scholar designation is entered on the transcript after a student has completed the 60 units required for transfer.

\*NOTE: Exceptions to the total number of units required and to the 80 percent rule may be made at the discretion of the Honors Program Committee.

- II. As part of the Academic Senate Scholar award, qualifying students will receive a certificate of recognition for this achievement.

**Honors Student**

The Honors Student designation is awarded to all transfer students that complete the Honors Program successfully.

1. To qualify, a student must have completed a minimum of six Honors classes, a minimum of 15 units, with a 3.0 GPA or higher.
2. In addition, a student must maintain a Long Beach City College cumulative GPA of 3.0 or higher with at least 80 percent of all units attempted in courses numbered 1-99. A student must also satisfy the college’s “units in residency” requirement.
3. The Honors Student designation is entered on the transcripts after the student has completed the 60 units required for transfer.

**Honors Courses**

General education Honors courses have as few as ten students and offer more intensive study than is normally possible. Over the years, Anatomy 1, Anthropology 1, Anthropology 2, Art 1, Art 2, Art 3, Art 4, Art 11, Biology 20, Biology 41, Economics 1A, English 1, English 3, English 44, English 45, English 48, English 49, Geology 1, Geology 3, German 3, German 4, History 1A, History 1B, History 2C, History 8A, History 8B, Humanities 1, Math 37, Music 40, Philosophy 6, Philosophy 7, Political Science 1, Psychology 1, Social Science 1, Sociology 1, Spanish 3 and Statistics 1 have been offered as Honors courses.

In addition, Honors courses sometimes offer an extensive approach to knowledge by considering the interconnections between disciplines and fields of knowledge. Guest speakers and field trips enhance this approach. Other extensive possibilities are available because many Honors classes are scheduled with instructors from different disciplines working together to encourage students to explore multi-disciplinary concerns as they fulfill the general education requirement. If you have any questions, please call (562) 938-4354.

**Admission Requirements for Newly Enrolling Students**

Students enrolling at Long Beach City College for the first time should have the following grades (overall GPA) and test scores (SAT, ACT or the equivalent) and are qualified for English 1 to qualify for the Honors Program:

GPA COMPOSITE	SAT TOTAL	ACT
4.0	800	20
3.9	850	21
3.8	900	22
3.7	950	23
3.6	1000	24
3.5	1050	25
3.4	1100	26
3.3	1150	27
3.25	1175	27

If you believe you are eligible for the Program based on other criteria, please make an appointment to see the Honors Coordinator after you have filled out the application. However, you must be close to the minimum requirements based on the SAT/ACT and GPA, have excellent letters of recommendation, and offer academic evidence showing why you believe you should be allowed to enroll in the Honors Program.

**Admission Requirements for Currently Enrolled Students**

Students currently enrolled at Long Beach City College qualify for the Honors Program if they have a 3.0 overall GPA in twelve or more college units (in courses numbered 1-99) and are qualified for English 1.

Continued superior academic achievement is required to remain in the Honors Program. A minimum 3.0 GPA is required in addition to completion of program requirements.

**Some Benefits of the Long Beach City College Honors Program**

- Honors Scholarships for entering students from local high schools
- Access to special research sources
- Free UCLA, UCI, CSULB library card
- Faculty mentors
- Honors academic counseling
- Informal degree checks
- Invitation to special honors forums, seminars and social events
- Participation in National Collegiate Honors Council (NCHC)
- Letters of recommendation, including a statement of the goals of the Honors Program and an evaluation of the student’s participation in the program
- Facilitation of placement in four-year college Honors Programs
- President’s Scholar Honors upon graduation
- Academic Senate Scholar Honors upon transfer
- Priority transfer privileges to universities at the junior level

For further information concerning the application process for the Honors Program, call (562) 938-4354 or visit the Honors Program Office in the LAC Library Mezzanine, L203A, or visit us on the web at <http://honorsprogram.lbcc.edu>.

## Admissions & Registration Information

### Admission Requirements

Any person 18 years or older, or who has a high school diploma or its equivalent, is eligible to enroll at Long Beach City College, provided the applicant otherwise meets the admission requirements.

All students are classified as either a California "resident" or a "non-resident." In general, a student must have lived in the state of California with full intent to remain as a permanent resident for at least one year prior to the start of the semester in order to be classified as a "resident."

In order to be considered California residents, students must provide evidence of intent to become a permanent California resident, such as a California driver's license, voter registration, car registration, proof of purchase of a home, etc, that is a year old before the semester begins. No single document is necessarily conclusive proof. California residence cannot be granted if there is evidence of any such document from another state. Residence for unmarried minors (those under 18) will be determined by the residence of the parent with whom the student lives. **Students must establish that they have lived in California, with the intent to become a permanent resident, for more than one year before the start of the semester they plan to attend.**

Students who are not U.S. citizens must verify their immigration status at the time of registration. If classified as a non-resident, they must pay non-resident tuition. Foreign students who plan to enroll with a student visa (F-1) must have the application files completed at least three weeks before the start of the semester. No I-20 will be issued until all requirements are met.

The above statements on residence are not intended to include all of the laws governing residence. The full text of the laws is presented in the California Education Code, available in the college library.

Students must submit the appropriate admissions applications and/or enrollment forms for each term they wish to attend. Documents, such as applications and transcripts, submitted to the college become the property of Long Beach City College and will not be returned and may not be duplicated.

### Matriculation

Matriculation is a process that brings together the college and a student into an agreement for the purpose of realizing the student's educational goal through the college's established programs, policies and requirements. Matriculation services include registration, orientation, assessment, counseling, post-enrollment evaluation and referral of students to services. The student is expected to participate in these services unless he/she requests a waiver from a particular service.

### I. College's Responsibility

In accordance with the matriculation agreement, the college agrees to provide guidance to students by evaluating basic skills, helping to place students in courses where they will encounter the greatest possible success, aiding them in developing realistic educational plans and providing the services to assist the student in achieving his/her goals.

### II. Student's Responsibility

- a. All new non-exempt students must complete assessment and orientation before they enroll.
- b. Students must identify a specific educational goal/major by the semester after they have completed 15 units of degree applicable credit coursework. Diligence in class attendance, completion of assigned coursework and maintenance of progress toward an educational goal is expected.

### III. Components of Matriculation

Matriculation is composed of the following components to ensure student success:

- \***Admission** to the college
- \***Assessment** of English, math, reading (LBCC Assessment & Orientation) and English as a Second Language skills
- \***Orientation** to the college's programs and services
- \***Counseling** to receive assistance with course selection and planning of an educational goal

Other Student Services are available to assist students in attaining an educational goal:

- Financial Aid - Health Center
- Job Placement - Transfer Center
- Tutoring

**\*THESE COMPONENTS ARE REQUIRED OF ALL STUDENTS TO BE FULLY MATRICULATED.** (See V. for exemptions)

### IV. Matriculation Requirement

**Admission, Orientation and Assessment.** All new non-exempt students must complete assessment and orientation before they enroll. Assessment placement results are valid for two years. The LBCC Assessment & Orientation is required of any student who falls under one of the following categories:

- a. All new, non-exempt (see below) students.
- b. Students who want to enroll in any English composition, reading or math course.
- c. Students who want to use this option to fulfill their associate degree math or reading proficiency.
- d. Students who are financial aid recipients, including Extended Opportunities Programs and Services (EOP&S).
- e. Students wishing to fulfill English and/or math prerequisites as specified by a department program.

**V. Matriculation Component Exemptions**

- a. **Orientation and Assessment** - Students who are exempt from the orientation and assessment component include students in the following categories:
1. Students who hold associate degrees or higher.
  2. Students who demonstrate that they are taking courses only for personal enrichment.
  3. Students who are co-enrolled at a four-year college or university.
  4. Students who are enrolled only in:
    - a. Performance or activity classes.
    - b. Classes for advancement in current job/career (update job skills).
    - c. Contract education classes.
    - d. Non-Credit classes.
- b. The exemptions for orientation and assessment do not apply to a student that plans to take a Math, Reading, English or English as a Second Language class and has not met the prerequisite. The assessment component for math, reading and writing can be partially met with documentation of coursework from another accredited college or high school.

**VI. Matriculation Component Appeal/Waiver Process and District Policies of Handling**

- a. **Admission** - All students must participate in this component; there is no waiver process.
- b. **Orientation, Assessment and Counseling** - Any student who feels that he/she is exempt from any of these components may appeal by filing a Matriculation Component Waiver form, which is available in the Assessment Office. These exemptions do not provide clearance for enrollment into specified English, Math, Reading or ESL courses. The waiver will be reviewed by the Matriculation Specialist and the student is then notified of the decision by mail. A student may request to participate in a previously waived component by contacting the Matriculation Specialist.
- c. **College Assessment Test** -
1. **Appeals of Initial Placement Recommendation**: A student may appeal an initial placement recommendation in English, Math, Reading or ESL by completing the Placement Appeal form available at the Assessment Center, Counseling Office or the respective department. The student will be notified of the appeal decision by mail.

**VII. Student Rights and Matriculation**

A student may file a complaint against Long Beach City College matriculation practices by filing a complaint form, which is available at the Assessment Office. Complaints will be filed with the Dean of Counseling and Student Support Services, who is responsible for investigation and resolution of such complaints. The Dean will maintain a file on all formal complaints.

***Student Grievance Policy***

Long Beach City College is committed to resolving problems students may be encountering while working within the guidelines and policies established by the state of California and the Board of Trustees. For specific information on both the policy and process for student grievances, contact the office of the Dean of Student Affairs.

***Procedures for Application to School of Health and Science Programs 2011-2012***

Health Care Programs may have limited enrollments due to the availability of clinical sites. These programs have separate admissions processes to insure that students are selected in a fair and equitable manner. Admission to Long Beach City College does not insure acceptance into these programs. To be considered, students must complete stated prerequisites, submit an official application form, and provide required documentation. After the stated deadlines, applications are evaluated and students will be notified if they have been selected. Nursing students have the opportunity to reapply for a subsequent term and are evaluated compared to the other students applying at the same time.

***International Student Program***

**Admission Procedures**

Long Beach City College welcomes International students to enroll in **the American Language and Culture Institute (ALCI), An Intensive English Program or in the regular college academic and certificate programs.** All international student applications are accepted and processed by International Student Programs (ISP).

**1. Admission to the American Language and Culture Institute (ALCI)- Intensive English Program**

ALCI offers the opportunity to acquire or improve English language skills rapidly through intensive study, enhanced by small class sizes, and opportunities for cultural immersions. The language and culture institute enrolls adults of all ages (18+), backgrounds, and levels of English proficiency. It combines in-class instruction with explorations of American culture and Southern California's dynamic blend of arts, sports, and entertainment.

The program is modeled in nine-week sessions: two sessions in the Fall Semester, two sessions in the Spring Semester, and one seven-week Summer Session. Whether you want to master English to complete your associate degree, transfer to a U.S. university, travel in English-speaking countries or to improve English language business and professional skills, the Long Beach City College American Language and Culture Institute will help you to reach your goal. The ALCI has been a great first step toward enrolling in LBCC's regular college program.

Applications requirements are available online at [www.lbcc.edu/alci](http://www.lbcc.edu/alci). Please submit your application online or in person at International Student Programs. *ALCI applicants do not need to submit proof of English proficiency. The program also offers conditional admission to LBCC as needed.*

**Tuitions and Fees:**

Regular Fall and Spring Session = \$1800.00  
 Summer Session= \$1400.00

Additional Fees include:

1. \$75.00 Cultural Enrichment Activities fee – paid on Orientation Day
2. \$20.00 Student ID card
3. \$25.00 parking fee if you drive to campus.
4. Health Insurance Fee

**2. International Student Admission to LBCC Regular Academic or Certificate Programs**

The International Student Program (ISP) offers specialized support and services to international students from the moment of their initial application throughout their study at LBCC till their graduation. We welcome international students to join the LBCC campus community and take advantage of the many extraordinary academic and extracurricular programs.

How to Apply as an International Student to LBCC

1. **Apply online at [www.lbcc.edu/international](http://www.lbcc.edu/international) OR request an application packet via email [international@lbcc.edu](mailto:international@lbcc.edu)**

2. **Application material should be sent to:**  
 International Student Programs  
 Long Beach City College  
 4901 East Carson Street – B9  
 Long Beach, CA 90808 USA

Applicants must adhere to application deadlines and send in all required documentations which include:

1. **Proof of English Proficiency:** Accepted test scores are:
  - a. iTEP International English Test (level 4.5)
  - b. PTE Pearson test of English Academic (44 score)
  - c. TOEFL - 500/173/61 or better
  - d. ALI at CSULB - level 104
  - e. ALI at SDSU - level 106
  - f. IELTS - Level 5
  - g. TOEIC- 645 or better

2. **Financial Requirement:** Applicants must be able to show that they have the funds needed to pay their academic and living expenses for the duration of their studies at LBCC. Proof of financial support must be submitted in the form of an original, official affidavit of support with an original bank statement or letter from a bank officer confirming your sponsor's financial standing.
3. **Transcripts:** Please submit official, original transcripts or certified copies of your transcripts along with English translations, if they are not already in English. We must have your high school (secondary school) transcripts and transcripts from all colleges or universities you have attended since high school.
4. **Tuberculosis Test:** Original test result from a hospital or doctor is required.
5. **Personal Essay:** Submit a hand-written essay explaining why you want to study at Long Beach City College discussing your future goals. Your essay should be at least one page long, but may be longer.
6. **Application Fee:** Non- refundable processing fee must be submitted with each application.
7. **Copy of Passport:** Send a copy of the information page from your passport showing your full legal name in English and your picture. We will use this version of your name when we issue your I-20.

**Tuitions and Fees:**

- International Student Tuition -\$243.00 per units.
- Other fees and expenses include: student ID, health insurance, parking, housing, food, books, school supplies, and personal necessities.

**For more information on the required documents and fees, you may visit [www.lbcc.edu/international](http://www.lbcc.edu/international)**

Upon receiving a completed application, the ISP will review your file and inform you of the decision within two weeks. As per immigration regulations and college policy all International students are required to enroll and complete **12 units each semester**, except for summer session. They must also purchase and maintain valid Student Health Insurance from an authorized LBCC vendor throughout their enrollment at LBCC.

International students are encouraged to be actively involved in campus life and activities, particularly in the International Students Club (ISC). Contact ISP (562) 938-4745 for any questions regarding your international student status.

### ***American Language and Culture Institute***

Long Beach City College's American Language and Culture Institute combines instruction for men and women at all levels of English proficiency with exposure to Southern California's dynamic blend of arts, sports, entertainment and business.

Whether you want to master English to take a TOEFL exam, attend a U.S. university, travel in English-speaking countries or for your business or career, the Long Beach City College American Language and Culture Institute is for you.

Students, business people, professionals and others will benefit from this strong program of language acquisition enhanced by the opportunity to learn about U.S. culture and customs.

The American Language and Culture Institute offers the opportunity to acquire or improve English language skills rapidly through intensive study, augmented by individualized computer instruction. Adults of all ages and levels of proficiency will be able to benefit.

Nine-week sessions are held throughout the year. Classes are conveniently scheduled early in the day to permit free time to explore Southern California's many attractions.

### ***Registration Procedures***

Students are responsible for officially registering in classes. A registration receipt is proof of enrollment. Students may not attend a class unless they are properly registered in that class. Registration may be done on-line or on a walk-in basis. See the Schedule of Classes for the semester enrolled for the dates, times, and instructions for registration.

Students are responsible for officially dropping classes by the posted deadlines even if the student never attended the class. Please refer to the online student center for drop deadlines.

### ***Enrollment Fees and Other Expenses***

Students must pay all fees and tuition at the time of registration unless otherwise indicated. All students are required to purchase their own books and regular supplies. All fees are subject to change after the printing of the schedule of classes.

A \$15 fee will be charged for all returned checks. Under Assembly Bill 1226, any person who writes a check dishonored for lack of funds is civilly liable, and under the law is liable for three times the amount of the check, plus the face value of the check.

**Nonresident Enrollment Fees:** Students who have been classified as non-residents (see residence section) shall be required to pay nonresident tuition at the rate of \$190 per unit and the normal enrollment fee of \$26 per unit, for a total of \$216 per unit (rate subject to change without notice). International students are required to pay the \$190 non-resident fee, the \$26 normal enrollment fee, and a capital outlay surcharge of \$51 per unit, for a total of \$267 per unit.

**Books, Supplies and Course Materials Fees:** You must purchase all books and many of the supplies required by instructors of the classes in which you enroll. If your class has a materials fee, it will be listed in the schedule of classes and that fee must be paid during registration. When possible, the bookstore sells used books at reduced prices. The bookstore generally stocks the supplies you may be required to purchase.

**College Services Card Fee:** The College Services Card (CSC) is the official student identification card utilized by both LAC and PCC campuses at Long Beach City College. The CSC is validated each semester by a current CSC sticker. Revenue from this CSC Card supports the intellectual, physical, social and cultural goals of students through the sponsorship of educational and co-curricular programs. It underwrites the Associated Student Body student government, campus shuttle service, athletics, grants and scholarships, music and theater arts programs, Viking Newspaper, intramural & recreation, clubs & organizations, KLCB/KCTY radio, accident insurance and a number of other programs and activities supporting the students "out of classroom" experience. The CSC sticker is issued by the Cashier's Office (at LAC and PCC) each semester for \$20 for fall and spring and \$15 for summer sessions.

**Student Health Fee:** A health fee will be charged upon registration, unless students meet one of the exemptions listed below:

1. Any student who depends exclusively on prayer for healing in accordance with the teachings of a bona fide religious sect, denomination or organization. Documentary evidence of such an affiliation is required.
2. Students attending college under approved apprenticeship training programs under Section 76355(c)(2).

Student Health Services is located on both campuses and are staffed by a registered nurse. Services include:

- Health assessment
- Health referrals
- First aid treatment
- Health counseling
- Blood pressure check
- Pregnancy tests
- Vision screening
- Hearing screening
- Over-the-counter medications for colds, flu, and headache
- Health-related programs such as the annual LBCC health fair
- Insurance coverage for accidents occurring on campus or at off-campus, college-sponsored events (\$50 deductible).

**Parking Fee:** Students must purchase a parking permit to park on-campus. The parking fee for automobiles or motorcycles is \$25 during the fall or spring semester. The fee for all students during summer sessions is \$15.

**Printing Fee:** A printing fee of \$.10/page will be charged for each page printed in the Academic Computing Centers and library on campus. Students are welcome to save the information to email or a flash drive to print at home or take to another source for printing.

**Indebtedness:** The College cannot extend deadlines for paying fees. In the event that a student becomes indebted to the college due to library fines, books or athletic equipment damage or loss, student loan defaults, breakage of equipment, bad checks, failure to meet attendance regulations for financial aid or for any other reason, the college will deny further enrollment, refuse to release transcripts and refuse to release information to potential employers or other agencies until all indebtedness has been cleared.

### ***Refunds***

Students are eligible for a refund only if they withdraw from classes during the first two weeks of instruction for a full-term class. See the online student center for refund deadlines for classes less than full-term.

Long Beach City College will determine the amount of federal financial aid that a student has earned in accordance with federal law. Students who receive federal financial aid and do not attend any classes will be required to repay all of the funds they received. Students who withdraw from all classes prior to completing more than 60% of the semester will have their financial aid eligibility recalculated based on the percentage of the semester completed and will be required to repay any unearned financial aid they received.

At LBCC a student's withdrawal date is:

1. The date the student officially filed a drop through the Admissions Office, via online, or
2. The midpoint of the semester for a student who leaves without notifying the college or
3. The student's last date of attendance at a documented academically related activity.

Long Beach City College does not have leaves of absence.

### ***Interdepartmental Class Transfer Rules and Refunds***

Students may transfer from one class to another within the same academic discipline upon the approval of the instructors involved. Transfers shall not be considered withdrawals.

**Definition of a Class Transfer:** After the refund/transfer period, transfers may only be made between classes in the same academic discipline. Furthermore, transfers will only be allowed under the following conditions:

1. Both classes are of equal length and start in the same week.
2. The class from which the transfer is being made is shorter than the new class and both start in the same week.
3. The class from which the transfer is being made is longer than the new class and both end in the same week.

**Fee Refund/Transfer Period:** In order to receive a refund or transfer enrollment fees or nonresident tuition from one class to another, students must officially withdraw or transfer within the period defined below. Transfer of fees and tuition will be made at the 100 percent rate; refunds will be 100 percent. The period depends on the length of the class, regardless of when the student enrolls.

1. For classes that are scheduled for the entire semester, the refund/transfer period is the first two weeks of the semester. After the second week, no refund can be made and transfers may only be made within the same academic department provided that permission is granted by the instructors.
2. For all other classes that are scheduled for shorter or longer periods of time than the regular semester, the refund/transfer period is the first ten percent of the total scheduled class meetings, excluding holidays. After ten percent of the scheduled class meetings have passed, no refunds can be made and transfers may only be made within the same academic department provided that permission is granted by the instructors.

**Enrollment fees, Nonresident tuition, health fees, and materials fees will** be automatically refunded to students who **officially** withdraw or transfer during the refund period. After this period, they will not be refunded.

**In the case of a verified military withdrawal,** enrollment fees will be refunded with no service charge.

**College Services Card and Parking Fees** will be refunded within the refund/transfer period defined above. After this time there are no refunds. All requests for refunds must be accompanied by the College Services Card and/or parking permit. No refunds will be granted without the appropriate documentation. College Services Cards stickers and Parking permits must be surrendered to the Cashier's Office to be eligible for a refund. Parking fees will be refunded by the Cashier's Office via US mail.

#### **Appeal for Refund Due to Special Circumstances**

1. The Dean, Admissions and Records, and Registrar shall consider all appeals for refund of tuition and enrollment fees.
2. The Vice President of Student Support Services, or Designee, shall consider all appeals for refund of College Services Card and parking fees.

### ***Change of Address and/or Name***

Change of address may be completed via the online student self-service, or in the Admissions and Records Office. Name changes must be completed in-person with legal documentation showing the new name. A photo I.D. is required for all transactions. Change of address for payroll purposes is made in the Payroll Office to ensure correct delivery of paychecks and W-2 Forms.

***Knowing Your Responsibilities***

Long Beach City College provides you with a wide variety of academic assistance and personal support, but it is up to you to know when you need help and to seek it out.

It is your responsibility to keep informed and to obey campus rules, regulations and policies that affect your academic standing as a Long Beach City College student.

Meeting deadlines, completing prerequisites and satisfying the degree and certificate requirements, as found in the curriculum guides and in this catalog, are all part of your responsibility as a student.

Consult this catalog, the college and school announcements and the schedule of classes for the information you need. Watch for official announcements in the *Viking* and on-campus bulletin boards.

***Family Educational Rights and Privacy Act (FERPA)***

All student records of Long Beach City College are maintained in accordance with the provisions of the Family Educational Rights and Privacy Act of 1974. Copies of the complete text of this act are available in the college library.

FERPA provides the student with the right to review and challenge his/her record and the control of the release of their academic record.

1. Students may request access to challenge the correctness or appropriateness of any part of the record. Grades, though a part of the record, are considered final as assigned by the instructor. See change of grade section for further information.
2. Student information, except for directory information as defined below, cannot be released by the college to any outside agency, except for those entitled to access under FERPA, without signed permission of the student. The student may restrict the release of "directory information" online or by completing the appropriate form in the Admissions Office. In the absence of having this form on file, the college may release directory information. Directory information is defined as dates of attendance, degrees, certificates or awards received, verification of student participation in school activities and sports and weight and height of members of athletic teams.
3. Parents may have access to records of their children but only if the children are still their dependents as evidenced by a claim of same on federal income tax returns. Parents desiring access to the records of a dependent child must complete the college dependent release form and present the full name, social security number and birth date of the child, their own personal identification and a copy, that the college district may keep, of the current year's federal income tax return indicating the child has been claimed as a dependent. Parents seeking to review records of a dependent child during the early months of the year must be able to

demonstrate that they have already filed for the year even though the filing deadline isn't until April 15th.

4. By law, notwithstanding any of the above, all student records must be released under court order and other Federal mandated requirements. The student will be notified by mail to the last address on file in the event of a subpoena, the student shall have the right to request a copy of any information released in this manner.
5. Any questions regarding the student's rights under this act should be directed to the Dean, Admissions and Records.

***Drug-Free College Statement***

The Long Beach Community College District is committed to providing an appropriate environment free from illicit drugs and alcohol. As a preventive measure, appropriate information regarding the health risks associated with the use of illicit drugs and abuse of alcohol will be provided for students. This information may be obtained from the Student Health Services- (LAC) (562) 938-4210 or (PCC) (562) 938-3992. In addition, information may be obtained regarding counseling, treatment, rehabilitation and re-entry programs. Long Beach City College offers forums and other educational programs regarding the harmful effects of drugs and alcohol. Information regarding programming may be obtained from the Office of Student Affairs, (562) 938-4154. All inquiries will be held in the strictest confidence.

In compliance with federal legislation, it is the policy of the Long Beach Community College District to maintain a drug-free environment and support a drug prevention program for students use. The unlawful manufacture, distribution, dispensation, possession, use or sale of illicit drugs or alcohol is prohibited by all students in all buildings, property, facilities, service areas and satellite centers of the district or as part of any district activities. Any student violating this policy will be subject to appropriate disciplinary action.

***Student Right-To-Know and Campus Security Act***

The Long Beach Community College District is committed to making the campuses of Long Beach City College as safe as possible for students, employees and visitors. The Long Beach Police Department-College Unit exists to inform, educate and make individuals aware of personal safety, as well as the safety of others. Students are encouraged to promptly and accurately report all criminal and emergency actions to the Long Beach Police Department College Unit on either campus. Those actions requiring further reporting should also be reported to the appropriate law enforcement agency. Assistance will be provided, as needed, to accomplish this task.

Policies exist identifying Long Beach City College as a secure facility. Access to all facilities outside of class hours requires prior approval from the Office of Administrative Services.



Under the auspices of the Long Beach Police Department-College Unit, monthly crime reports are compiled and distributed for both student and employee consumption. These reports are intended to inform individuals about current criminal experience, as well as educate individuals regarding crime prevention. The Police Department also recommends and conducts programs designed to inform students and employees about campus security procedures and practices which encourage individuals to be responsible for their own security, as well as the security of others. In addition, pamphlets are prepared and distributed by the Long Beach Police Department College Unit on a regular basis to new students and employees regarding campus safety and crime prevention.

Public information regarding sex offenders in California may be obtained by viewing the Megan's Law Web site at the Long Beach Police Department and/or the Los Angeles County Sheriff's Department.

Long Beach Police Officers assigned to the College Unit have the authority and responsibility to enforce all policies, rules and regulations of the District, as well as local, state and federal laws.

In compliance with the Student-Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of our college district to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 2006, a cohort of 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 above. These rates do not represent the success rates of the entire student population at the College nor do they account for student outcomes occurring after this three-year tracking period.

Based upon the cohort defined above, a Completer is a student who attained a certificate or degree or became 'transfer prepared' during a three year period, from Fall 2006 to Spring 2009. Students who have completed 60 transferable units with a GPA of 2.0 or better are considered 'transfer prepared'. Students who transferred to another post-secondary institution, prior to attaining a degree, certificate, or becoming 'transfer-prepared' during a five semester period, from Spring 2007 to Spring 2009, are transfer students.

More information about Student-Right-to-Know rates and how they should be interpreted can be found at the California Community Colleges "Student-Right-to-Know Information Clearinghouse Website" located at <http://srtk.cccco.edu/index.asp>

### ***Accuracy Statement***

Long Beach City College has made every effort to assure the accuracy of the information in this catalog. Students and others who use this catalog should be aware that policies, rules, procedures, and regulations change and that these changes may alter the information contained in this publication. The college reserves the right to change policies, regulations, fees, and courses of instruction upon direction by the Governing Board. The most current and complete information is available from the appropriate campus administrative agencies and policies and regulations are available online at <http://www.lbcc.edu/policymanual/index.cfm>.

Students are protected by catalog rights. Catalog rights state that a student may continue with the requirements posted in a College Catalog for a given academic year if, and only if, that student maintains continuous enrollment from that year until the degree is finished. Continuous enrollment is enrollment in and receiving a grade (A, B, C, D, F, P or NP) for at least one class per academic year (August to June) at LBCC or any other accredited higher education institution after being initially enrolled at LBCC. A student may miss one semester and still maintain continuous enrollment.

To report errors and omissions, make suggestions for better readability, or offer comments, please send an email to [mfernandez@lbcc.edu](mailto:mfernandez@lbcc.edu).

### ***Counseling & Student Development***

The Counseling Office assists students in the selection of career and educational goals consistent with their interests and aptitudes. The counseling department is designed to complement the instructional department by providing specialized services, including testing and counseling on personal problems which may affect a student's progress in college. Counselors are available to assist students in developing an educational plan to achieve their stated goal. If a student has not identified a career goal, the Career and Job Services Center can help them through the decision making process. Counseling services are available Monday-Wednesday 8 a.m.-7 p.m., Thursday, 8 a.m.-5 p.m. and Friday, 8 a.m.-4:30 p.m. Call LAC (562) 938-4560 or 938-4561 or PCC (562) 938-3920.

The Counseling Office also provides Online Counseling as a flexible alternative to meeting with a counselor. Visit the Online Counseling website at <https://onlinecounseling.lbcc.edu> or access it directly from the LBCC website at <http://www.lbcc.edu> and click *Online Counseling*. Not all counseling services are available online.

### ***Campus Child Development Center***

Child-care services make attending classes more convenient for many students. Quality care is available for children between 2-5 years of age (before kindergarten entrance). Both campuses have child-care facilities. The facility used is NOT dependent on the location of classes. The Centers are open Monday-Friday 7:00 a.m.–5:30 p.m. For information about fees, space availability and parent responsibilities, contact the PCC Center at (562) 938-3079 or 938-3082 and/or the LAC Center at (562) 938-4253 or 938-4251.

### ***Transfer Center***

The Transfer Center offers assistance to those in the process of transferring to a four-year college or university. Online Application assistance is available for CSU, UC, and private universities. Services available include university appointments, university tours, transfer fairs and transfer workshops. Students may schedule for university appointments and transfer workshops with transfer representatives from a variety of four-year public and private colleges and universities. The Transfer Center is open Monday and Tuesday from 8:00 a.m.-7:00 p.m., Wednesday from 8:00 a.m.-5:00 p.m., Thursday from 8:00 a.m. to 5:00 p.m., and Friday from 8:00 a.m.-4:30 p.m. There are centers on both campuses; at the Liberal Arts Campus in A-156 and at the Pacific Coast Campus in GG-108. Appointments may be made at the LAC by calling (562) 938-4670 and at PCC by calling (562) 938-3910. Please visit our website at <http://transfer.lbcc.edu>.

### ***Student Life***

The mission of Office of Student Life is to create, encourage, and support a positive collegial learning environment whereby the educational goals of students and the College are enhanced. A number of activities and programs give students the opportunity to GET CONNECTED to Long Beach City College. These programs present opportunities for leadership development, personal growth, shared governance, healthy competition, volunteerism and develop a sense of community.

- **Clubs & Organizations** – Joining a club/organization provides the perfect opportunity to make new friends, develop leadership skills, and contribute to the college and community. Utilize the networks you will make to help you plan your future and skills you develop to build your resume.
- **Student Government** - ASB is the student voice for over 28,000 students supporting the intellectual, physical, social and cultural goals for students through the sponsorship of educational and co-curricular programs. For students interested in participating in student government including the **Associated Student Body** Cabinet or **PCC Student Council**, you may consider one of the many elected or appointed positions.
- **Intramural & Recreation** - Intramural & Recreation strives to promote better health by offering a variety of intramural and recreational activities for participants of all abilities. Intramural & Recreational Sports offers a wide range of programming and plays an integral role in student life.
- **Viking Volunteer** - volunteering helps connect students, clubs and organizations to the community through service. The VVRC can provide information for volunteer opportunities throughout the surrounding community. The mission of the Viking Volunteer is to provide students with opportunities to serve their campus and community and become lifelong civic leaders.
- **Women and Men's Resource Center** - The Women and Men's Resource Center provides workshops, groups, referrals and resources that include individual assistance and advocacy to help you succeed in your educational goals.

A number of programs are available for students to serve on college committees, voice their concerns through government, network through participation in clubs & organizations, compete in intramural leagues, attend leadership conferences or volunteer in the community. The Office of Student Life can be reached at LAC, Bldg. E102 (562) 938-4552, PCC, Bldg. GG200 (562) 938-3985 or [www.LBCC.edu/StudentLife](http://www.LBCC.edu/StudentLife)

### ***Career & Job Services Center***

The Career & Job Services Centers at LBCC are here to assist individuals in their career planning and job search endeavors. This dynamic process is lifelong and can entail individual counseling or group counseling in a classroom setting.

The programs and services available to help in this personal exploration include: career assessments and counseling, an expansive career library, and a career lab equipped with computers, Internet access, and a VHS/DVD library of career related materials.

The opportunity to explore choices is what the centers are all about. The centers are staffed with counselors, career technicians, and student assistants who are available to assist you. The centers are located in Building E of the Liberal Arts Campus and the Pacific Coast Campus, AA-128 Administration building. For more information and hours, call: LAC (562) 938-4283 or PCC (562) 938-3916. You may also visit our website at <http://careers.lbcc.edu>.

### ***Economic and Resource Development***

Economic and Resource Development establishes, implements, and administers multiple economic development grants, contracts and workforce preparation projects from a variety of government and private funding sources to enhance the College's instructional programs and services to address regional workforce preparation needs. Economic Development projects focus on business expansion in six core industry clusters: small business development, international trade, information technologies, advanced transportation, healthcare, and green innovations. The grants and projects enable the college to enhance its full complement of services, including assessment, technical education, training in workplace skills, internships, apprenticeships, and customized training to meet business-specific needs.

Economic Development refers to the activities that support the attraction, expansion and retention of jobs. Workforce Development refers to programs and services, which prepare people for entry-level work and career advancement including technical preparation, basic skills and employability skill sets.

ERD develops and maintains collaborative partnerships between education and local industry, through industry advisory groups to ensure the College's curricula meets and exceeds industry standards. The office offers professional development courses for the community at large, customized training for business and industry, technical assistance, and employee assessment and skills development programs. For more information, please call (562) 938-5020.

### ***Women and Men's Resource Center***

The center provides services and activities designed to help individuals pursue career and educational goals through the development of skill, capability and confidence. These services include: referrals to college and community resources, weekly educational workshops and seminars, support groups, crisis counseling, a student lounge and study area with a student dedicated computers and staff to provide individual assistance.

The Women and Men's Resource Center is located on the Pacific Coast Campus in room DD142. For additional information, please call (562) 938-3987. Hours: Monday-Thursday 8:00 a.m. – 5:00 p.m., Friday 8:00 a.m. – 3:30 p.m.

### ***Student Health Services***

#### *Liberal Arts Campus - Pacific Coast Campus*

The program is supported by mandatory student health fees and most services are provided free of charge to enrolled students. Health services for students include physical exams and health assessments, treatment for episodic illnesses such as cough, cold, flu, headaches, bladder infections, simple ear & eye infections, sore throat, etc. Tuberculosis testing, screening for vision, hearing, blood pressure, glucose, and cholesterol testing are available by appointment. Smoking Cessation assistance and Nutritional Counseling are also included free by appointment. Same-day appointments are available for first aid and pregnancy testing. Immunizations such as Hepatitis B, Measles, Mumps, Rubella, T-Dap, & flu are available for a modest fee. Family planning services are available free through a collaborative agreement with Planned Parenthood. HIV screenings are available free of charge through a collaborative agreement with the Long Beach Department of Health and Human Services. Dental cleanings, x-rays, and consultations are offered at discounted rates through a collaborative arrangement with a local dentist equidistant to both campuses. Dental referrals can be obtained from Student Health Services staff. Health education and promotional activities are provided by Student Health Services on both campuses on a continuing basis throughout the semester. Students under the age of 18 must provide consent for treatment signed by a parent or guardian. Consent forms are available on both campuses in the Student Health Services offices or from <http://studenthealth.lbcc.edu/>

The mandatory student health fee also provides accident insurance for injuries that occur on campus or at college-sponsored events. Students needing to use the college student accident insurance coverage must contact Student Health Services as well as report the injury to the supervising instructor immediately. This accident coverage is secondary to any primary coverage available to the student and is subject to certain exclusions or limitations. In order to obtain the highest level of coverage students must be treated by approved physicians in the Anthem Blue Cross Prudent Buyer program. All claims are subject to a \$50 deductible payable at the end of the billing cycle.

The Health Services office on the Liberal Arts Campus is located in room Q124 and on the Pacific Coast Campus in Room AA101. For information or to make an appointment to see a nurse or a nurse practitioner call LAC (562) 938-4210 or PCC at (562) 938-3992. Hours of operation are:

LAC  
Monday - Thursday . . . . . 8 am – 4:00 pm  
Friday . . . . . 8 am – 12 pm

PCC  
Monday - Thursday . . . . . 8 am – 4:00 pm  
Friday . . . . . 8 am – 12 pm

**Limited Personal Counseling Services**

Limited Personal counseling services are available for all enrolled students on both campuses. Counseling sessions are held in the offices of the Counseling Departments at both LAC and PCC. Make appointments for LAC 562-938-4559 or PCC 562-938-3992. Personal counseling is provided by a Licensed Marriage and Family Therapist. Sessions are strictly confidential.

***Campus Security and Crime Awareness***

It is the policy of the Long Beach Community College District to maintain a safe and secure environment for its students, staff, and visitors. Safety and security requires that everyone on campus be alert, aware, and responsible.

The Long Beach Police Department provides police services to the Long Beach Community College District through its City College Unit. The City College Unit is comprised of an assigned Lieutenant, four police officers, and 16 security officers that are assigned to both the Liberal Arts Campus and the Pacific Coast Campus.

**EMERGENCY SERVICES – 911 or 9911 from campus phones:**

Contact the Long Beach Police Department with any emergencies such as crimes in progress, medical aid, or any incident requiring immediate police/security response.

**GENERAL POLICE SERVICES – (562) 938-4910 or (562) 435-6711:**

Contact the Police Department for questions or problems regarding security, lost and found items, thefts or other crimes. The LAC office is located north of the Library in Parking Lot C. Business hours are Monday through Friday, 8am to 5pm. After business hours call the General Service number or 911 (9911 for on-campus phones) for an emergency.

**Evening Safety Escorts**

Escorts are available to students at both LAC and PCC. Students should call the City College Unit through the General Service number to arrange for an escort to meet them on campus.

**Parking and Traffic Regulations**

Parking permits are required for all Long Beach City College lots; that is, a current semester student parking permit or a daily permit. Student permits and daily permits do not authorize parking in staff or other reserved areas except where posted otherwise. Parking is available on a first-come, first-served basis. Having a permit does not guarantee that a student will find a parking space near his or her class. At the LAC, there is additional parking in the Veterans Stadium Parking Lot. Parking permits are purchased each semester during registration at the time the College Services Card is purchased or may be obtained later at the Cashier's Office.

These rules are enforced to ensure the rights of permit holders, as well as to provide for the safety of people and property:

Parking permits are **required at all times** in LAC and PCC parking lots. Parking permits are purchased each semester during registration. After registration, permits may be purchased from the Cashier's Office at either campus. For students who do not wish to purchase a semester parking permit, one-day parking permits are available at both campuses. Parking permit machines at LAC are located on the west side and center of parking lot J, and lots E, F, H and Veterans Stadium. The PCC Machines are located in lot 3 and lot 1. Meter Parking is available in Lot F, G, H, and on Lew Davis at LAC. Meters are available Lot 2 at PCC. There are also 30 minute visitor parking zones along the north curb of Carson Street for LAC.

Semester parking permits must be attached to either the rear view mirror so that it is visible from the front of the vehicle or on the lower left corner of the rear window (driverside). One-day parking permits must be placed in plain view on the vehicle dashboard with the permit facing upward. Students who are having difficulty displaying a permit should go to the College Police Trailer for assistance. Students driving a convertible-type vehicle can obtain a special convertible permit from the LAC College Police trailer, in lot 'C.' This special convertible permit can only be obtained after the purchase of a semester parking permit.

Student permits and daily permits do not authorize parking in staff or other reserved parking spaces except where posted otherwise.

Parking is available on a first-come, first-served basis.

All vehicles must be parked between the lines of a designated parking space only. Backing into parking stalls is not permitted.

A permit does not guarantee a parking space in the parking lot of choice. You are advised to allow ample time to find parking. At LAC, there is additional parking in the Veterans Stadium parking lot.

Citations are issued by the Long Beach Police Department to automobiles, motorcycle, and mopeds that do not display a properly placed, current parking permit. Students parked in staff or other specially designated areas will also be cited. Students may not double park nor circle the parking lots to wait for a parking space.

No adjustments will be made for parking citations at the Long Beach Police Department - College Unit. Individuals wishing to contest citations must do so by following your instructions on your citation or by calling (562) 570-6822.

Motorcycles and mopeds are to be parked only in areas specifically posted for their use. Operators must purchase a current semester parking permit and keep it in their possession. Motorcycles and mopeds may not be driven on campus or parked on sidewalks. Violators will be cited.

Students, staff, or faculty with state-issued disabled placards are to park in the marked handicapped spaces. If a handicap space is not available, parking is allowed in any other student or staff space. Disabled permits are not valid in carpool or other reserved spaces.

Regulations pertaining to parking can vary from lot to lot. It is the responsibility of the driver to read the parking regulations that are posted at the entrance of each parking lot.

### ***Student Financial Aid***

Long Beach City College administers a comprehensive student financial aid program to assist students in meeting college costs. The amount of financial aid awarded varies from student to student, depending on the individual's need and resources.

Financial aid awards are based on calculated financial need as determined by the Free Application for Federal Student Aid. The FAFSA may be completed on the Web at [www.fafsa.gov](http://www.fafsa.gov). Student budgets include educational expenses, such as tuition, fees, books, supplies, housing, food, transportation, child-care and personal expenses.

Financial aid recipients must adhere to the standards of progress of the financial aid programs.

#### **Federal Programs**

**To be eligible for the federal Financial Aid programs, the student must be a U.S. citizen or an eligible non-citizen as defined by federal regulations.**

Federal regulations also require financial aid recipients to either have graduated from high school or have completed a recognized equivalent (such as the California High School Equivalence examination or the GED). Those who do not meet the above requirements

must pass a federally approved Ability to benefit test through the Long Beach City College Assessment Center.

**Federal Pell Grants** provide federal grants that range from \$400 to \$5450, depending on the student's financial need and enrollment status.

**Federal Supplemental Educational Opportunity Grants (FSEOG)** is federal grants that range from \$100 to \$1000 per year at Long Beach City College.

**The Federal Work Study Program (FWS)** provides part-time employment. Students are employed a maximum of twenty hours per week while school is in session. The pay rate for most Federal Work Study positions is currently \$8.00 per hour.

**The Federal Perkins Loan Program** provides low-interest, long-term loans. No interest is charged, nor is repayment required while the borrower is enrolled in school at least half-time. Payments and interest of five percent per year begins nine months after the borrower ceases to be enrolled or is enrolled less than half-time.

**The William D. Ford Direct Loan Program** provides loans to students to be used for educational expenses. Freshman students may borrow up to \$3,500 per year and sophomores (those who have completed 30 units) may borrow up to \$4,500 per year.

FSEOG, FWS and Perkins Loans funds are limited and early application is strongly advised. Be sure to check the financial aid calendar published in the current schedule of classes for financial aid deadlines.

#### **State Programs**

**Cal Grant A** helps low- and middle-income students with tuition/fee costs at four-year colleges and universities. Grant recipients are selected on the basis of financial need and grade point average.

If you qualify for a Cal Grant A and want to attend a public community college first, the Student Aid Commission will hold the tuition/fee award on reserve until you transfer to a four-year school, provided you continue to qualify.

**Cal Grant B** provides a living allowance and tuition/fee help for low-income students. Cal Grant B's may be used at community colleges, as well as at four-year schools.

**Cal Grant C** helps vocational school students with tuition and training costs. Recipients must be enrolled in a vocational program at a community college, independent college or vocational school, in a program of study from four months to two years in length. The application period for all Cal Grants is from January 1 to March 2 for the following academic year. Application materials and help with filling them out are available in the Financial Aid Offices at LAC and PCC during the application period.

**Important Financial Aid Dates**

January 1<sup>st</sup>- The first day to apply for financial aid for the following fall.

March 2<sup>nd</sup>- The Cal Grant deadline.

May 1<sup>st</sup>- The first priority deadline for financial aid at Long Beach City College. Turn in all required financial aid documentation by this date to be sure to receive your financial aid at the beginning of the fall semester.

For more information about the financial aid programs at LBCC and our office hours, visit our website at: <http://fina.lbcc.edu>. For further information and for help with the financial aid application process, come into the Financial Aid Office at LAC or PCC to speak with a Financial Aid Specialist.

Financial Aid Office Liberal Arts Campus 4901 E. Carson Street Long Beach, CA 90808 (562) 938-4257	Financial Aid Office Pacific Coast Campus 1305 E. PCH Long Beach, CA 90806 (562) 938-3955
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**Extended Opportunity Program and Services (EOPS)**

Extended Opportunity Programs and Services (EOPS) provides counseling and other retention services and activities to qualified students “over and above” what is traditionally provided to community college students. EOPS is designed to help low-income and educationally disadvantaged students become successful in college to enable them to complete their educational and career goals.

The following services are provided EOPS at Long Beach City College: priority registration, academic and personal counseling, peer advisement, study skills workshops, supplemental tutoring assistance\* and supplemental book assistance\* (\*based on available funding).

Students who would like to apply for the program must first complete the Free Application for Federal Student Aid (FAFSA) at [www.fafsa.ed.gov](http://www.fafsa.ed.gov)

**EOPS Eligibility:** Students must be California residents, not have completed more than 56 degree applicable units, be enrolled full-time, be eligible for the California Board of Governors’ Fee waiver (BOGFW-A or B) and meet the educationally disadvantaged criteria.

**Cooperative Agencies Resources for Education (CARE):** The CARE program provides additional support services to assist students in EOPS who are single head of household with at least one child under the age of fourteen and are CalWorks or GAIN participants. The objective of the program is to provide linked resources that enable eligible students complete college-level training and educational programs.

**G. I. Bill**

Generally, veterans’ eligibility for benefits expires 10 years after release from active duty. Extensions are sometimes granted in cases of disability.

Once a veteran has enrolled in classes, they must complete a request for VA Benefits, either at the PCC VA Office or it’s also available through our Lbcc.edu website under Financial- Veterans Affairs. Other information is available at the Veteran’s Affairs Office (in the administration wing at the PCC Campus).

G. I. Bill benefits will be paid according to the following schedule:

**Regular Semester**

Full payment	at least 12 units
3/4 payment	at least 9 units
1/2 payment	at least 6 units
1/4 payment	at least 3 units

\*1/4 payment is not available in all programs and may not be advisable under certain conditions. Check with the Veterans Affairs office for more information, (562) 938-3929.

**College Programs**

Long Beach City College administers more than 1000 scholarships each year. These scholarships are funded by campus and community organizations, local businesses and private donors. Applications for scholarships will be available September 1, 2011 and due December 3, 2011.

The Scholarship Office/Foundation Office is located in Building “O” at the Liberal Arts Campus and EE157B at the Pacific Coast Campus.

**Disabled Student Programs and Services (DSPS)**

DSPS provides many support services that enable students with disability related limitations to participate in the college’s programs and activities. They include:

1. Specially designated parking spaces.
2. Registration assistance for students unable to negotiate regular registration procedures.
3. Specialized academic, personal and vocational counseling.
4. Special equipment for campus use such as visual enlarging machines, a talking calculator, assistive listening devices, and adaptive computer equipment.
5. Services of the State Department of Rehabilitation, such as vocational counseling and guidance, training and job placement.
6. Specialized instruction for students with physical, learning, psychological and/or developmental disabilities.
7. Training in the use of assistive computer technology including access to the DSPS Adaptive Computing Lab.

8. Specialized services for the deaf and hard of hearing, including speechreading (lipreading) instruction, as well as the coordination of classroom interpreters for deaf students. Students who may need these services should request these services from DSPS prior to the beginning of classes.
9. Adapted physical education for physically limited students requiring specialized physical education.
10. Access to print in alternate formats.

DSPS is committed to the student with a disability and ensuring that students are able to participate in college programs and activities in the most integrated setting possible. For information or appointments, please call: LAC (562) 938-4558; PCC (562) 938-3921; (562) 938-4833 TDD. You may ask questions of a DSPS counselor online at <https://onlinecounseling.lbcc.edu> or from the LBCC website, <http://www.lbcc.edu> then click *Online Counseling*.

### ***Civil Rights Compliance Statement***

The Long Beach Community College District does not discriminate in its admissions, educational programs, activities or employment policies on the basis of race, religious creed, color, national origin, ancestry, gender, sexual orientation, age (over 40), disability, marital status, medical condition, or disability (mental and physical, including HIV and AIDS), other protected classes, or status as a Vietnam-era veteran, or obligations to the National Guard or Reserve forces of the United States.

The District is subject to Title VI and VII of the Civil Rights Act of 1964; Title IX of the Educational Amendments Act of 1972; the Rehabilitation Act of 1973, sections 503 and 504; the Age Discrimination Act of 1975; and the Americans with Disabilities Act of 1990.

The lack of English language skills will not be a barrier to admission and participation in the District's programs. Anyone with a question or a complaint of unlawful discrimination should contact the District Compliance Officer at (562) 938-4512.

### ***Title IX. Prohibiting Sex Discrimination in Education***

The Long Beach Community College District is committed to support all regulations under Title IX. "No person in the U.S. shall, on the basis of sex, be excluded from participation in, be denied the benefits of or be subjected to discrimination under any operation of an educational institution that receives federal funds."

Anyone with a question or a complaint of unlawful discrimination should contact the District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808, (562) 938-4512.

### ***AB 1088 Mandatory Orientation: Sexual Violence Prevention***

In compliance with Assembly Bill 1088, the Long Beach Community College District provides sexual violence prevention information to students during on-campus orientations, and posts this information on the campus Internet Web site [www.lbcc.edu](http://www.lbcc.edu), (follow links: Students, Health Services, Sexual Assault). This site contains valuable information about Ways to Avoid Rape, What to Do in a Risky Situation, and What to Do in Case of Rape.

If you are the victim of sexual assault on campus, **immediately** call the Long Beach Police Department unit at the college: **911** from a cell phone or **9911** from a campus phone for an officer response. You may choose to go directly to a hospital emergency room for medical care. In addition, the Sexual Assault Crisis Agency (SACA) provides several unique services including: an advocate to accompany you to the hospital, confidential individual counseling, support groups for survivors and families, and advocates to assist you in working with courts and law enforcement agencies.

LBCC Personal Counseling and Health Services are available on both campuses during business hours.

**Counseling Offices:** LAC Building A 938-4559 or PCC Building, GG 938-3922.

**Student Health Services:** LAC Bldg Q120 near the Gym 938-4210, PCC Bldg AA114 near Administration 938-3992.

**Sexual Assault Crisis Agency-** 24 hour hotline (English and Spanish) 562-597-2002, 1703 Termino Avenue, Suite 103, Long Beach Ca 90804.

### ***Americans with Disabilities Act of 1990***

The Americans with Disabilities Act (ADA) of 1990 prohibits discrimination against people with disabilities in employment, public services including public and private transportation, public accommodations and telecommunications services.

Support services for students with a disability are provided through the Disabled Student Services Program. Anyone needing information about our services for students with a disability should contact this office at (562) 938-4558 voice or (562) 938-4833 TDD.

Anyone with a question or a complaint of unlawful discrimination should contact the District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808 at (562) 938-4512.

### ***Sexual Harassment Policy Statement***

The Long Beach Community College District provides an educational, employment and business environment free of unwelcome sexual advances, requests for sexual favors, and other verbal, visual, or physical conduct or communications constituting sexual harassment, as defined and otherwise prohibited by state and federal statutes. Sexual harassment includes a prohibition against sexual harassment, gender harassment, and harassment based on pregnancy, childbirth, or related medical conditions. Sexual harassment is a violation of an individual's civil rights and will not be tolerated.

Individuals with questions and/or a sexual harassment complaint should contact the District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808 at (562) 938-4512.

### ***Section 504, Rehabilitation Act***

In compliance with Section 504 of the Rehabilitation Act, the District has developed a Disabled Student Services Program headed by Mark Matsui. He is located at 4901 E. Carson St., Long Beach, CA 90808. Anyone needing information about our program for students with a disability should contact this office at (562) 938-4558 voice or (562) 938-4833 TDD.

The Long Beach Community College District encourages the full participation of students with a disability in regular classes. The college offers support services to provide students with an equal educational experience. Disabled Student Services provides sign language interpreters, note-takers, readers, disability related counseling, test-taking accommodations, speech services, adapted equipment and a variety of other services.

Anyone with a question or a complaint of unlawful discrimination should contact the District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808, (562) 938-4512.

### ***Declaracion de Cumplimiento de los Derechos Civiles***

El distrito de la universidad de la comunidad de Long Beach no discrimina en sus normas de admisión, programas educativos, actividades o regulaciones de empleo en lo referente a raza, edad (más de 40 años), sexo, religión, ascendencia, color, nacionalidad, incapacidad, condición médica, estado civil, orientación sexual o por ser veterano de la guerra de Vietnam o por tener obligaciones con la Guardia Nacional o con las Fuerzas de Reserva de los Estados Unidos. El distrito está sujeto a los artículos VI y VII del Acta de 1964 de los Derechos Civiles, el artículo IX de la Enmienda Educativa de 1972, el Acta de Rehabilitación de 1973, secciones 503, 504 y el Acta de Americanos con Incapacidades de 1990.

La falta de conocimiento de la lengua inglesa no será una barrera para la admisión y participación en los programas del distrito.

Para hacer preguntas o presentar quejas de discriminación ilegales, pueden comunicarse con el District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808, (562) 938-4512.

### ***Artículo IX Prohibición de Discriminación Sexual en la Educación***

El distrito de la universidad de la comunidad de Long Beach está comprometido a apoyar todas las regulaciones del artículo IX que especifica que: Ninguna persona en los Estados Unidos, por condición de su sexo, podrá ser excluida de participar o serle negados los beneficios o ser sujeta a discriminación en ninguna actividad que se lleve a cabo en una institución educativa que reciba fondos federales.”

Para hacer preguntas o presentar quejas de discriminación ilegales, pueden comunicarse con el District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808, (562) 938-4512.

### ***Americanos con Incapacidades–Acta De 1990***

El Acta (ADA) de 1990 de Americanos con Incapacidades prohíbe la discriminación contra personas con incapacidades en el trabajo, servicios públicos incluyendo transportes públicos y privados, alojamientos públicos y servicios de telecomunicación.

Se proveen servicios de ayuda para estudiantes con incapacidades mediante el Programa de Servicios Para Estudiantes Incapacitados. Para informarse de estos servicios, llame al (562) 938-4558 (Voz) o (562) 938-4833 TDD.

Para hacer preguntas o presentar quejas de discriminación ilegales, pueden comunicarse con el District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808, (562) 938-4512.

### ***Declaracion de las Normas sobre Acoso Sexual***

El distrito de la universidad de la comunidad de Long Beach provee un ambiente para la educación, el empleo, y el trabajo que no permite insinuaciones sexuales no solicitadas, peticiones de favores sexuales, u otra conducta verbal, visual o física, o comunicaciones que constituyen el acoso sexual que se define y se prohíbe en los estatutos estatales y federales. El acoso sexual incluye la prohibición de acoso sexual, el acoso basado en el sexo de la persona, en el embarazo, en el parto, o en condiciones médicas relacionadas con ellos. El acoso sexual es una violación de los derechos civiles del individuo y no será tolerado.

Para hacer preguntas o presentar quejas de discriminación ilegales, pueden comunicarse con el District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808, (562) 938-4512.



***Sección 504, Acta de Rehabilitación***

De acuerdo con la Sección 504 del Acta de Rehabilitación, el distrito ha desarrollado un programa de servicios para los estudiantes incapacitados, dirigido por Mark Matsui. Él está localizado en 4901 E. Carson St., Long Beach CA 90808. Cualquier persona que necesite información acerca de nuestro programa para estudiantes con incapacidades puede ponerse en contacto con esta oficina al (562) 938-4558 voz o (562)938-4833 TDD.

El distrito de la universidad de la comunidad de Long Beach anima a los estudiantes con incapacidades a que participen completamente en todas nuestras clases. La universidad ofrece servicios de apoyo para dar a los estudiantes una experiencia educativa completa. Los servicios para estudiantes incapacitados ofrecen intérpretes de lenguaje por señas, ayudantes que toman notas, lectores, consejeros sobre incapacidades, acomodación para tomar exámenes, servicios de dicción, equipo especiales y otros varios servicios.

Para hacer preguntas o presentar quejas de discriminación ilegales, pueden comunicarse con el District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808, (562) 938-4512.

### Libraries

Libraries at each of the two main campuses serve as vital information centers. The collections include books, electronic books, periodicals, DVDs, CDs, and other video and audio recordings, carefully selected to support the curriculum and information needs of the community of learners. The library website provides a portal to valuable resources, such as the online catalog, electronic databases, reliable websites, and instructional materials, accessible on campus and remotely over the Internet. During all hours the libraries are open, librarians are available to assist students in person and via E-mail and instant messaging. To help students develop information competency, the Library faculty at both campuses offers instruction in the form of courses, workshops, and orientations. For more information, please visit the Library website at <http://lib.lbcc.edu>.

#### Liberal Arts Campus

Hours (Fall and Spring)

Monday-Thursday	7a.m.-10p.m.
Friday	7a.m.-4p.m.
Saturday	10a.m.-4p.m.

For additional information or summer hours, call (562) 938-4232/4231.

#### Pacific Coast Campus

Hours (Fall and Spring):

Monday-Thursday	8a.m.-9p.m.
Friday	8a.m.-2:30p.m.
Saturday	10a.m.-2p.m.
Sunday	CLOSED

For additional information or summer hours, call (562) 938-3028.

### Academic Support and Development Department

#### PCC Multidisciplinary Student Success Center Multidisciplinary Success Center (LL-206)

The Multidisciplinary Student Success Center at PCC provides supplemental learning assistance, tutoring and adult basic education courses. We also provide English and Math tutoring. Students can also enroll in BAE 601 to brush up on basic reading, writing and math skills, prepare for the LBCC assessment test, Ability to Benefit, or TEAS. Students can enroll in this free, 0-unit course and begin our program at any time. Students can also earn a **Certificate in Basic Skills for the Workplace** with a minimum of 45 hours of coursework and demonstration of proficiencies in reading, writing and math skills.

The center is open Monday through Thursday 8am-9pm, Friday 8am-2pm and Saturday 10am-2pm (please check for summer hours). The Center is located on the 2<sup>nd</sup> floor of the Library/Learning Resources building (LL Building) at PCC. For further information or to learn how the center can meet your needs, please call (562) 938-3991.

#### CTE Center PCC (MM-112)

The CTE Center provides supplemental learning assistance, workshops and basic skills for students in Career Technical Education programs at LBCC. Contextualized learning via trade-specific materials help students succeed in their classes and build necessary reading, writing and math skills for their chosen career program.

The CTE Center is located on the PCC campus in the II building, room 133, but provides services to students & faculty on both campuses. The center is open Monday through Thursday, 8a.m. – 5p.m. and Friday, 8a.m.-2p.m (please check for summer hours). For further information or to learn how the center can meet your needs, please call (562) 938-3125.

### Learning and Academic Resources Department

The Learning and Academic Resources department offers a variety of programs to help students achieve their academic and occupational goals. For more information about LAR services, check the LAR web page at <http://lar.lbcc.edu>

Liberal Arts Campus L Building 2 <sup>nd</sup> Floor (562) 938-4474	Pacific Coast Campus LL Building 2 <sup>nd</sup> Floor (562) 938-3255
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Hours: Monday-Thursday	8:00a.m.-8:00p.m.
Friday	8:00a.m.-2:00p.m.
Saturday	10:00am.-2:00p.m.

#### Learning and Study Skills

Skills to enhance learning, such as test taking and note taking, are taught in a variety of ways. Study skills assistance is offered through a series of free workshops. Learning skills are taught through individualized instruction or learning skills courses, such as LEARN11.

#### Media Materials

At the Liberal Arts Campus, LAR houses the collection for televised instruction courses which may be viewed in the Center. LAR also maintains a reserve section for instructors who would like to have media materials available for their students. A Multimedia Presentation practice room is available by appointment for students wanting to view and record their classroom presentations.

#### Tutoring

Free tutoring is offered in a variety of college subjects, including accounting, biology, chemistry, physics, foreign languages and math. Students work individually and in small groups. Interested students should inquire in person in L-203 at LAC or L211 at PCC, or by phone at (562) 938-4474.

#### Academic Computing Centers

Macintosh and PC computers, software, laser printers and Internet access are available to students in a large open-access computer lab in L251 at LAC. Interested students may obtain information about the lab policies and services by visiting the facility.

An open access computer lab with a mix of Macintosh and PC computers with laser printers and Internet access is available in LL216 on the Pacific Coast Campus. For information on the lab hours and policies, students may visit the lab.

**Instructional Technology Student Support Center**

This center for students using multimedia technology as a component of their courses is available in L252 at the Liberal Arts Campus. Students can receive assistance with their computer-based projects. Macintosh computers with a wide variety of software are available. Web-based supplemental instruction is also available in the Center.

**Computer Proficiencies for Academic Success**

The Learning and Academic Resources department offers courses designed to teach students the technology skills they will need to succeed in their academic classes. Both introductory (CPAS 1) and advanced (CPAS 10) computer skills courses are offered. The department also offers a course designed to help students develop the skills necessary to be successful in distance learning classes (CPAS 805).

**Supplemental Instruction**

Supplemental Instruction (SI) offers organized group discussion sessions designed to help students master course concepts and improve relevant study skills in historically difficult courses. Regularly scheduled SI sessions are conducted by trained SI Leaders in selected course sections.

***Computer Applications & Office Technology Self-Paced Classrooms***

**Pacific Coast Campus**

**Classroom AA202**

**Phone (562) 938-3033**

**Hours of Operation:**

Monday-Thursday

9a.m.-7p.m.

Friday

Closed

**Liberal Arts Campus**

**Classroom M109**

**Phone (562) 938-4904**

**Hours of Operation:**

Monday- Thursday

9a.m.-3p.m.

***Writing and Reading Center***

**Liberal Arts Campus and Pacific Coast Campus**

The Writing and Reading Center offers a wide range of beginning through advanced writing and reading courses taught by certificated instructors. These .5 unit courses are offered to help students improve their language skills. Additional instruction by trained peer tutors is also available. Reading courses include reading comprehension, phonics, spelling, and vocabulary development. Writing courses include writing, grammar, punctuation, and usage. Assistance is also available in techniques for writing research papers and the analysis of literature. A wide range of written and audiovisual materials are available for student use.

The Writing and Reading Center at the Liberal Arts Campus is located in D103 in the Mathematics Learning Center. Students can also use the computer labs for engineering courses, such as C++ and Engineering Graphics.

***Nursing and Allied Health Learning Center and Skills Lab***

**Liberal Arts Campus**

- ❖ The Nursing and Allied Health Learning Center provides supplementary material and skills practice for students enrolled in a nursing and/or allied health program. A variety of self-paced, print media, multimedia programs and skills equipment are available
- ❖ The Learning Center is located in Room C201 and is open during posted hours. For additional information, call (562) 938-4299.

***Life Science Learning Center***

The Life Science Learning Center is a general study room hosting a collection of audiovisual and reference materials designed to help students master fundamental concepts taught in Biology, Anatomy, Physiology and Health Education courses. Activities are essentially student-driven with additional assistance provided by a knowledgeable staff member.

The Life Science Learning Center offers a “hands-on” learning experience through the availability of scientific models, bones, plant and animal specimens currently used in classrooms. Students may check out microscopes and various histology slides to review for exams and quizzes. Macintosh computers with CD-ROM drives offers ready-to-run software currently used in various classes. Students enrolled in specific courses may check out answer keys, sample tests and lecture outlines to prepare before class and to assess mastery of lecture topics. In addition, the center hosts a collection of reference books for use, in the Learning Center.

The Life Science Learning Center at the Liberal Arts Campus is located in room D214, on the second floor of the Science Building (D) facing Carson Street. Hours of operation are posted on the door and may vary each semester.

***Foreign Language Multimedia Learning Center***

**Liberal Arts Campus**

The Foreign Language Learning Center located in M103 at LAC and BB233 at PCC offers technological and linguistic support in a multimedia environment for students enrolled in foreign language classes. The Center also operates as an open access lab to support computer-assisted learning.

The Center is open Monday-Thursday from 8:00 a.m. - 10:00 p.m., Fridays, 8:00 a.m. - 2:00 p.m. For additional information, please call (562) 938-4320.

### ***Mathematics Learning Center***

#### **Liberal Arts Campus**

The Math Success Center provides supplemental learning assistance, tutoring, course material and computer access in an open, inviting, learning environment. Some Math classes require students to complete various supplemental learning assistance activities as part of their class grade. These activities can be completed at the Math success center at LAC under the direct supervision and interaction of Math faculty.

Additionally, the Center provides peer tutoring to students registered in any math course offered at LBCC. In addition, students can arrange to meet others enrolled in the same course for informal group study or a study room can be reserved. Chemistry and physics tutors are also available. Math faculty are on hand for supplemental instruction.

The Math Success Center houses state-of-the-art computers to provide students with a broad range of educational tools. With PC workstations, students can access a variety of software that includes word processing, graphics, spreadsheets, statistics, Geometers' Sketchpad and Mathematica. Software is available that allows students to see filmed lectures on most math topics that are mentioned in their textbooks. DVD's, CD's and Videos are also available.

The Math Success Center is located in D103 on the first floor of the Math and Science Building near the corner of Clark and Carson Streets. Students may use the Math Success Center facilities on a Walk-in basis throughout the semester. They must register for MATH 650 a 0 unit course, and be concurrently enrolled in any math course. **Hours of operation are from 7:00 a.m. - 10:00 p.m. Monday through Thursday, from 9:00 a.m. - 4:00 p.m. Friday, and from 10:00 a.m. - 4:00 p.m. Saturday.** For further information please call 938-4228.

### **Faculty Office Hours**

All full-time faculty hold five regularly scheduled office hours per week. Ask your instructors for their hours and office location.

### **Class Syllabus**

All faculty members are required to publish and keep on file in the division office a course information sheet (syllabus) for each course for each semester and distribute them at the first class meeting or no later than the end of the second week of class. The syllabus must align to the content of the course that is in the course outline, contain grading standards for the class, a description of the means by which the course is to be taught (lecture, laboratory, outside assignments, etc.), attendance requirements, and office location and office hours. Other recommended items are examination dates, text assignments, an outline of topics to be covered in the course, and student learning outcomes.

### **Student Attendance**

Attendance is the responsibility of the student. Students not attending the first class session may be dropped from the class at the discretion of the instructor. In the event of excessive absences, the instructor may drop a student from a course or may lower a student's grade. Students who are absent in excess of 20 percent of the total class hours or for two weeks in a row may be dropped from class. The grade assigned by the instructor upon dropping a student for non-attendance shall be in accordance with Regulation 4020.3. Such students may be reinstated only at the discretion of the instructor for extenuating circumstances.

Extenuating circumstances shall be defined as reasons for absence beyond the control of the student. Typical examples of such circumstances would be extended illness, hospitalization, court appearances or death in the immediate family.

### **Auditing of Classes**

An "auditor" shall mean a person who attends a course but is not regularly enrolled, and does not receive credit or a grade for the course. To be eligible to audit, a person must be currently enrolled in at least one other course.

Students may enroll as an auditor by permission of the instructor only. The participation in an audited class is subject to the discretion of the instructor. Students may audit a specific course only once and shall be limited to auditing two courses per term. Audited units shall be included in determining student unit load maximums. However, audited units shall be excluded in determining student status for credit unit load for financial aid, scholarships and athletic eligibility.

All official restrictions to enrollment shall apply to auditors, including placement and prerequisite requirements. Priority in class enrollment shall be given to students taking the course for credit. Auditors may enroll only after the conclusion of the open and "by petition" enrollment period and before the end of the fourth week of class for an 18-week course or equal percentage of the course length. The fee for auditing a

class shall be in accordance with the California State code and any materials fees that are ordinarily required for the course. Students enrolled in classes to receive credit for ten or more units shall not be charged a fee to audit three or fewer units per semester. Fees are to be paid before auditing the course, and fees are non-refundable.

Auditors shall not be permitted to change their enrollment status in order to receive credit for the course. Regularly enrolled students may not change to audit status. Auditors shall not be permitted to earn credit by examination for an audited course.

### **Grading Regulations**

**Grading System** - Final grades are issued after the end of the semester or summer session in which the class ends. Grades are accessible through the online self service system. The significance of grades is as follows: "A," excellent; "B," good; "C," satisfactory; "D," passing but less than satisfactory; "F," failing; "W," withdrawal; "MW," military withdrawal; "P," pass (at least satisfactory-units awarded not counted in G.P.A.); "NP," no pass (less than satisfactory-units not counted in G.P.A.); "RD", report delayed means a grade has not been submitted by the instructor. Courses numbered in the 600-band do not award a grade.

### **Make-Up Grades for Incomplete Work**

Permission for making up incomplete work may be granted when unforeseeable emergencies and justifiable reasons cause the student to be unable to complete the academic work by the end of the course. It is the responsibility of the student to initiate the request for the incomplete, but the "I" grade is assigned at the instructor's discretion.

The instructor gives the grade of "I" and indicates the grade to be assigned in the event the student does not complete the required work within the timeline given on the incomplete grade contract. The grade must be "A," "B," "C," "D" or "F" except that "P" and "NP" grades may be assigned where the course provides for grading on this basis and the student has elected to be graded on the P/NP basis by the appropriate deadline. This grade shall be based on the total requirements for the course and a grade of "W" may not be assigned. Once an Incomplete is assigned by the instructor a student is not eligible to enroll in the same class until the incomplete is resolved.

Petitions to change these grades or to exceed the one-year make-up period must first be approved by the instructor and then submitted to the Grade Review Committee for final disposition.

**Withdrawal** - The grade of "W" shall be assigned for withdrawal from a class or classes in accordance with the schedule below for both a student-initiated withdrawal and instructor-initiated drop. One exception is when a student is required to leave a class for reasons of academic dishonesty; then a grade of "F" may be given. Another exception is for military withdrawal, in which an "MW" is assigned.

1. **Students withdrawing or being dropped** after the final limit for “W’s” must be assigned a grade of “A,” “B,” “C,” “D,” “F,” “MW,” “P” or “NP.” The grade assigned shall be based on the total semester requirements for the course.
2. **Full semester length Classes** - If the date of last attendance is within the first two weeks of the class, a grade is not recorded. If the date of last attendance is between the beginning of the third week and the end of the deadline week, then the recorded grade must be a “W.” After the deadline week a letter grade other than “W” must be assigned and must be based on the total course requirements. Classes that are less than full-term please see current semester class schedule for withdrawal deadlines.
3. **Students may petition for a “W” grade after the final limit for “Ws” only for extenuating circumstances beyond the control of the student**, such as verified accident or illness. Petitions must be reviewed and approved by the Grade Review Committee.

**Military Withdrawal** - The grade of “MW” may be assigned to students who are members of an active or reserve military service and who receive orders compelling a withdrawal from classes. Upon verification of such orders, the grade of “MW” may be assigned at any time from the beginning of the period that “Ws” may normally be assigned, through the end of the course. The “MW” grade shall in no way adversely affect a student’s academic record. The “MW” grade shall not be counted in completion ratio or GPA calculations. The grade of “MW” may be applied as appropriate retroactively to January of 1990.

### Grade Points

A system of grade points is used to determine a student’s standing for graduation or transfer. Grade points are assigned to the respective grades as follows: for each unit of credit, the grade of “A” is assigned 4 points; “B,” 3 points; “C,” 2 points; “D,” 1 point; “F,” 0 points. P (pass) and NP (no-pass) units are not counted in one’s GPA.

### Change of Grades

All grades are final in the absence of mistake, fraud, bad faith or incompetency.

A student who believes a final grade to be incorrect may file a “Request for Change of Grade” form obtained from the office of Admissions and Records. All requests for grade change should be made by the student, in writing, within two years after the end of the semester in which the grade was earned. In the absence of the instructor, the request shall be referred to the Grade Review Committee.

### Open Entry/Open Exit Courses

For students completing 0-29 percent of the work or time required in an open entry/open exit course a grade will not be recorded. Students completing 30-74 percent of the work or time required will be assigned a “W” grade. The “Ws” will be included in completion ratio calculations. Students completing 75 percent or more of the work or time required will be assigned the grade

earned, i.e., “A,” “B,” “C,” “D,” “F,” “P” or “NP.” The exception to this is the grade of “MW.”

### Repetition of Courses

Credit courses that may be repeated fall into two categories, those that may be repeated only once under certain conditions and those that may be repeated up to three times (meaning a course may be taken a total of four times).

A. Unit credit is allowed only once. No credit or grades shall be allowed for unauthorized repeats. All courses except those indicated in section B below, may be repeated only **once** and only under one of the following conditions:

1. A course may be repeated when a grade of D, F or NP has been recorded. The grade of the repeated course whether higher or lower, will be used for determining the grade point average. Unit credit will be based on the repeated grade only. The grade for the earlier course and the repeated course shall both be recorded on the student’s permanent record, insuring a true and complete academic history.
2. A course may be repeated when a grade of B, C or P has been recorded provided the district finds that the previous grade was the result of verified cases of accidents, illness or other extenuating circumstances beyond the student’s control. Students desiring to repeat a course under this section must have prior approval from the Grade Review Committee before reenrolling in the course. Application for such approval must be made in writing to the Dean, Admissions and Records, and must be supported by documentation that will verify the extenuating circumstances. A statement from the instructor of record (or department head if the instructor is unavailable) indicating that the recorded grade was lower than it might otherwise have been, had the extenuating circumstances not arisen.
3. A course may be repeated when a grade of A, B, C or P has been recorded provided that a minimum of two semesters has elapsed since the student previously took the course for any course numbered 1-99, except for Directed Study. For all courses numbered 100 or higher, excluding 600 band courses, one semester must have elapsed. In either case, the District has determined the student would benefit by repeating the course in order to ensure that the student’s knowledge is current. For repeated courses in which a grade of A, B, C or P has been recorded, the grade of the repeated course shall not be counted in calculating a student’s grade point average. The grade of the earlier course and the repeated course shall both be recorded on the student’s permanent record, insuring a true and complete academic history. Courses repeated under this criterion will not be used for determining financial aid, scholarship and/or athletics. Unit credit is allowed only once. Neither credit nor grades

shall be allowed for unauthorized repeated courses.

- B. Certain courses may be repeated up to a maximum of three times for a total of four enrollments regardless of the grades earned. These courses are identified in the college catalog and in the schedule of classes. All grades earned for the authorized repeats shall be counted toward the grade point average and are not subject to the repeat rules of Section A. These courses are designated by a suffix. The letters following the course number indicate the number of times the course may be taken: "AB" = twice, "AC" = three times, "AD" = 4 times. For example, Journalism 85AD may be taken a maximum of four times. All grades and units earned in these types of courses are counted.
- C. Repetition of courses with a grade of A, B, C, or P shall be permitted when necessary to meet legally mandated training requirement(s), condition of continued paid or volunteer employment.  
Enrollment under this provision is limited. Documentation supporting the legal mandated training is required. Please submit the required documentation to the Admissions and records Office.
- D. It shall be the student's responsibility to ensure that the repetition of a course is authorized by these regulations. Any student who is determined to be repeating a course when not authorized to do so shall be administratively removed from the class.
- E. Credit by examination is not subject to the course repetition rules.
- F. Courses in the 600-number band (non-credit courses) are not subject to the course repetition rules.

***Academic Renewal***

The purpose of academic renewal is to disregard a portion of a student's prior substandard academic work. Students wishing to disregard prior work must complete the Academic Renewal Petition and submit it to the Admissions and Records Office. Academic Renewal is subject to the following:

- A. The student must have completed 24 units at Long Beach City College with at least a 2.0 cumulative GPA subsequent to the term to be disregarded.
- B. At least (1) calendar year must have elapsed from the time grades to be disregarded were earned.
- C. Courses to be disregarded shall be on a semester (or term) basis. All courses in the designated semester will be ignored in determining the requirements for graduation, including GPA, field of concentration, honors, general education and units. Any courses thus ignored, which would otherwise meet a particular requirement, will have to be fulfilled by retaking a course or by other alternative educational means.
- D. Only a maximum of two semesters (or terms) may be disregarded.

- E. All courses shall remain on the official record. The transcript shall be appropriately annotated to indicate that academic renewal has been applied, including the specific semester(s) (or terms) that were disregarded.
- F. Academic Renewal by Long Beach City College does not guarantee that other institutions will honor this action. It is the student's responsibility to insure that his/her transfer institution will approve of academic renewal from Long Beach City College.
- G. Once a certificate or degree is posted at Long Beach City College, academic renewal will not be available.

***Academic and Progress Probation***

- A. A student shall be placed on probation whenever the student's academic record indicates any of the following conditions:
  - 1. The student's grade point average falls below 2.0 (C) in all units graded over the 4.0 grading scale after the student has attempted more than 12 units at Long Beach City College.
  - 2. After enrolling in a minimum of 12 units at Long Beach City College, the student has completed fewer than one-half of all units in which the student has enrolled as reflected in the academic record.
- B. For the purposes of section A.2, the entries of W, NP and I are counted as incomplete work while entries of A, B, C, D, F and P are counted as complete.
- C. Students on academic and/or progress probation shall be subject to Counseling Intervention. Counseling Intervention shall include the following provisions:
  - 1. Meeting with a counselor in the Counseling Department, DSPS or EOP&S;
  - 2. Completing a student "Strategy for Success" contract and/or an Education Plan;
  - 3. Being limited to a maximum of 12 units each semester until the student is off probation; and
  - 4. Completing the sequence of basic skills courses in the Education plan.
- D. Any student on probation shall be reclassified as "satisfactory" whenever the cumulative grade point average reaches or exceeds 2.0 (C) and the ratio of units-completed to units-enrolled is one-half or better based on the number of units indicated in section A above.

***Academic and Progress Dismissal***

A student on probation for at least two semesters and who has not completed the Counseling Intervention and made up the deficiencies in the student's academic record shall be dismissed.

Academic dismissal requires the student to complete at least three units during the semester with a semester grade point average of at least 2.0.

Progress dismissal requires the student to enroll in at least three units during the semester. If enrolled in 3 to 5.5 units, the student must complete all units. If enrolled in six or more units, the student must 80% of the course.

Academic and Progress dismissals are recorded at the end of the Spring semester.

### ***Readmission After Dismissal***

A dismissed student will not be readmitted to the college for at least one full year, consisting of Fall, Spring and Summer, unless the student has completed the Counseling Intervention and petitioned for readmission by the posted deadline in the Admissions and Records Office.

Students desiring to return after one year of dismissal must submit an application and a readmission petition to the Admissions and Records Office. The Readmission Committee reviews all petitions.

A dismissed student who is readmitted will be placed on probation and may be subject to further enrollment restrictions.

### ***Scholarship***

Long Beach City College acknowledges outstanding student scholarship in three ways: on the Dean's Honors List, in the graduation ceremonies and through a scholarship honor society. "Outstanding Scholarship" is classified in the following ways:

- 1) Scholarship with Honors                      3.500-3.749 GPA
- 2) Scholarship with Distinction              3.750-3.999 GPA
- 3) Scholarship with Great Distinction      4.000 GPA

### ***Dean's List***

Students on the Dean's List are recognized each semester on a posted list and with a personal letter. To be eligible for the Dean's List, a student must meet the following requirements:

Either: All students with 12 or more units attempted\* that semester with 75 percent or better overall completion ratio who maintain the necessary semester GPA to qualify for "outstanding scholarship" described above.

Or: All students with 6 to 11.9 units attempted that semester with both a 75 percent or better overall completion ratio and an overall cumulative GPA of at least 3.50 in 12 or more previously earned units (including the current semester at Long Beach City College) and who maintain the necessary semester GPA to qualify for "outstanding scholarship" described above.

\*Note: Units attempted are classes with grades of "A," "B," "C," "D" or "F." A class taken for a grade of "P," "NP" does not count in computing the number of units attempted.

### ***Scholarship Society (A.G.S.)***

Long Beach City College has two chapters of Alpha Gamma Sigma, the California Community College honor scholarship society. Students eligible for the Dean's List are encouraged to apply for membership. Students with a 3.0 overall cumulative GPA in 12 or more units are also eligible for membership.

Kappa Chapter is located at the Liberal Arts Campus. Information and applications are available in Room M226. Delta Chi Chapter is located at the Pacific Coast Campus. Information and applications are available in the Student Affairs Office.

### ***Honors at Entrance***

High school graduates are accorded "Honors at Entrance" as a form of recognition for outstanding scholarship. To be eligible, the graduate must have earned a 3.5 GPA or better and must have matriculated to LBCC.

### ***Honors at Graduation***

Students graduating with outstanding scholarship are recognized during the graduation ceremony and in the commencement program. To be eligible for honors at graduation, a student must have a cumulative overall GPA based on all college work applied to the degree, no matter where completed, that qualifies for "outstanding scholarship" as described above.

### ***Course Credit & Class Preparation***

To earn one unit of credit in a lecture class, you must spend one hour each week, for 18 weeks, in a lecture class session. In addition, you are expected to devote a weekly average of two hours in outside-of-class preparation for each one hour of lecture class time.

To earn one unit of credit in a laboratory, demonstration or practice situation class, you must spend three hours each week, for 18 weeks, in a class session. Some additional outside-of-class preparation will be expected.

For work experience classes, one unit of credit represents 75 hours of paid employment or 60 hours of volunteer work per semester.

### ***Pass/No Pass Courses and Grading***

Some courses allow the student to change the grading option to pass/no pass instead of a letter grade. Students may change the grading base option online via student self-service, or by completing and submitting a pass/no pass form in the Admissions and Records Office. This process must be completed prior to the thirty percent point of the course. The deadline can be found in the class schedule.

Students are required to do all work assigned and take examinations as though they were getting a grade. To receive a pass, a student must do the work equivalent to a "C" grade or better. Students seeking an associate degree are limited to 20 units on a pass/no pass grading basis. All courses not applicable to the degree (courses in the 800-band) shall be graded pass/no-pass.



Courses taken on pass/no pass grading basis do not affect the grade point average at Long Beach City College. The student should consult the catalog of the school to which she/he intends to transfer to determine its policy.

### Maximum Student Unit Load

The full-time unit load definitions for a **regular academic semester** are as follows:

- A. Minimum full-time unit load: 12 units
- B. Normal full-time unit load: 15 units
- C. Maximum full-time unit load: 18 units
- D. Maximum full-time unit load with written permission: 21 units

For students with good academic standing, i.e., students who are not on any form of probation, the maximum full-time unit load definitions for any one or combination of **summer terms** are as follows:

- A. Minimum unit load for full-time summer status: 6 units
- B. Maximum full-time unit load: 10 units
- C. Minimum unit load for half-time summer status: 3 units

The requirements by **residency** category are as follows:

- A. **Residents of California** may enroll for up to the maximum full-time unit loads, as stated, during the academic year and summer school.
- B. **Non-residents** (unless restricted by visa) may enroll for up to the maximum full-time unit loads, as stated, during the academic year and summer school and must pay non-resident tuition.
- C. **High School Students**  
During the academic year eligible high school students may enroll in a maximum of 6 units. See high school concurrent application form for specific requirements.

### Waiver of Maximum Unit Load Limitation

- A. A student may request a **waiver of maximum unit load limitation, except for the summer session**. Under no circumstances will a student be permitted to exceed the defined maximum unit load limitation with waiver. The determination to waive the maximum unit load limitation is the responsibility of the Counseling Department and will be made only for extraordinarily capable students of proven academic ability and excellent past academic performance.
- B. To apply for a waiver, a student must meet the following regulations:
  - 1. The student must be matriculated so that his or her college placement examination scores, transcripts of previous academic performance and other pertinent data are available to the counselor.
  - 2. The student must apply to the Counseling Office for a waiver no later than two weeks

prior to the first day of walk-in registration for the semester concerned. A waiver request after the two-week deadline requires the approval of the Dean, Counseling and Student Support Services.

- C. The Vice President reserves the right to grant special waivers in unusual circumstances.

Students enrolled in more units than permitted for his or her classification by these regulations will have his or her program of studies reduced to the applicable allowable maximum by the Dean of Admissions and Records or designated representative.

### Credit by Advanced Placement

Long Beach City College recognizes the Advanced Placement Program of the College Entrance Examination Board. Students are required to order official copies of their College Board transcripts with the appropriate Advanced Placement scores and have the transcripts sent to Long Beach City College's office of Admissions and Records. Course credit is granted for Advanced Placement examinations with a score of three, four or five in those instances in which the department concerned has determined that the material covered is comparable to a specific course offering within that department. Advanced Placement credit is granted for fulfillment of Long Beach City College degree requirements. However, when a student transfers to any other college or university, that institution routinely re-evaluates advanced placement units in accordance with its own internal policies. Thus, advanced placement units remain intact and do not transfer as Long Beach City College courses. Unless otherwise stated, credit is awarded for an AP test score of three, four or five. The number in parentheses after each course is the number of units awarded. Courses numbered 99 in the following table are elective credit.

#### AP Courses and AA/AS Degree General Education Requirements

AP Examination	LBCC Credits Granted
Art	ART 1P (3) and ART 99P (3)
History	
Biology	BIO 41P (3), BIO 41LP (1) and BIO 99P (2)
Calculus AB	MATH 60P (5)
Calculus BC	Math 60P† (5) and Math 70P (5) †Students who pass both the AB and BC exams receive credit for Math 60P once.
Chemistry	CHEM 1AP (5) with an AP score of 4 or 5
Comparative Government/Politics	POLSC 2P (3)
Computer Science A	ENGR 54P (3), and fulfills A.A./A.S.

English (Language and Composition and/or Literature and Composition†)	*ENGL 99P (6) with an AP score of 3 *Students who have earned a three on either English Advanced Placement exam and have qualified for ENGL on the basis of the English Placement Test may petition to have four units of elective credit substitute for ENGL 105. ENGL 1P (3) and ENGL 99P (3) with an AP score of 4; ENGL 1P (3) and ENGL 2P (3) with an AP score of 5 †Students who pass both exams receive a maximum of six-units of credit.
Environmental Science	ENVRS 1P (3) with an AP score of 4 or 5
European History	HIST 1BP (3)
French Language	FREN 4P (5) and FREN 99P (1) with an AP score of 5 FREN 3P (5) and FREN 99P (1) with an AP score of 4 FREN 99P (6) with an AP score of 3
French Literature	HUMAN 99P (3), to fulfill GE Humanities requirement and FREN 99P (3)
German Language	GER 4P (5) and GER 99P (1) with an AP score of 5 GER 3P (5) and GER 99P (1) with an AP score of 4 GER 99P (6) with an AP score of 3
Human Geography	GEOG 2P (3)
Latin/Vergil	HUMAN 99P (3) to fulfill GE Humanities requirement
Latin/Catullus, Horace	HUMAN 99P (3) to fulfill GE Humanities requirement
Macro-Economics	ECON 1AP (3)
Micro-Economics	ECON 1BP (3)
Music Theory	MUSIC 1P (3) and MUSIC 99P (3)
Physics B	PHYS 99P (4) with an AP score of 3 PHYS 2AP (4) with an AP score of 4 PHYS 2AP (4) and PHYS 2BP (4) with an AP score of 5
Physics C Mechanics	PHYS 2AP (4) with an AP score of 3 PHYS 3AP (5) with an AP score of 4 or 5
Physics C Electricity/Magnetism	PHYS 99P (4) with an AP score of 3 PHYS 3BP (4) with an AP score of 4 or 5

Psychology	PSYCH 1P (3)
Spanish Language	SPAN 4P (5) and SPAN 99P (1) with an AP score of 5 SPAN 3P (5) and SPAN 99P (1) with an AP score of 4 SPAN 99P (6) with an AP score of 3
Spanish Literature	HUMAN 99P (3), to fulfill GE Humanities requirement and SPAN 99P (3)
Statistics	STAT 1P (3)
Studio Art - Drawing	ART 15P (3)
United States Government/Politics	POLSC 1P (3)-To receive credit for POLSC 1P, student must take POLSC 48 (1), which covers California government and which may be taken Credit by Exam.
United States History	HIST 10P (3)
World History	HIST 2BP (3) and HIST 2CP (3)

**High School Articulation Project**

Long Beach City College (LBCC) is involved in the High School Articulation Project, which is a joint program with local high schools primarily in the Long Beach Unified School District (LBUSD) and the Long Beach Regional Occupational Program (ROP). The aim of the High School Articulation Project is to assist students to move seamlessly from high school to LBCC. Students interested in completing articulated courses must adhere to the criteria set forth by both the LBUSD/ROP and LBCC faculty.

Students that have received a high school/ROP Articulation Certificate and/or have questions regarding current agreements must contact the Office of School and College Articulation at (562) 938-4469.

**Credit by Examination**

Credit by Examination is a provision whereby a student who is enrolled in the college and is in good standing may, with departmental approval, take an examination for credit in a specific course. The student must have completed at least 12 semester units at Long Beach City College and have the prior approval of the department head and school dean before being allowed to take the examination for credit. Exceptions to the 12-unit limitation must be approved by the office of the School Dean. For courses identified in the High School Articulation Project as eligible for Credit by Examination, the 12-unit limitation does not apply. In all cases, courses eligible for Credit by Examination will be determined by the department. It is up to the Department to determine how many times credit by examination is offered to an individual student per semester and how many times students are allowed to attempt to pass the exam.

1. In addition, the department concerned also determines specific standards of student eligibility.
2. The method of evaluation, including a copy of any written exam or a description of its contents, must be approved by the department and kept on file in the department and the office of the School Dean. For courses identified in the High School Articulation Project, a description of the contents of the examination, as developed and approved in the articulation process, must be kept on file in the department.
3. Students who take an exam for credit will be given the grade earned. For high school articulated courses, they will be given the grade earned or receive a "Credit" depending on the method of grading for the course; if they do not pass the examination, there will be no notation made on the transcript and no credit awarded. Units earned through Credit by Examination may not be counted toward the 20-unit residence requirement for the associate degree.
4. A fee will be charged to take Credit by Examination. The fee will be waived for participants in the High School Articulation Project.
8. One to three units of credit will be granted upon satisfactory completion of a project. Each unit of credit shall be equal to 54 hours of work.
9. Units will be placed on the student's transcript as Directed Study 99 in the subject matter area.
10. The student shall earn no more than six units in directed study courses.

The subject areas that currently are approved for Directed Studies are Anthropology, Art, Biology, Computer and Business Information Systems, Economics, English, Geology, Business International, Journalism, Political Science, Psychology, Social Science, Speech, and Theater Arts.

### ***Transfer Credit from other Colleges, Universities and Institutions***

It shall be the policy of the Long Beach Community College District to accept unit transfer credit from other appropriately accredited academic and professional institutions, provided that the student establishes residency at Long Beach City College, and satisfies any other curricular or academic limitations imposed by the District.

#### **Responsibilities**

- A. The Vice President, Academic Affairs, shall be responsible for the establishment of appropriate standards for the acceptability of transfer credit.
- B. The Dean of Admissions shall be responsible for the enforcement of the standards of acceptability and for maintaining appropriate records on all transfer credit.

#### **Institutions within the United States**

- A. Transfer credit, if otherwise appropriate, shall only be accepted from colleges and universities which have been properly accredited by one of the regional Associations of Schools and Colleges.
- B. The acceptable accrediting associations are the Middle States Association of Colleges and Schools; North Central Association of Colleges and Schools; Southern Association of Colleges and Schools; New England Association of Schools and Colleges; Northwest Association of Schools and Colleges; and the Western Association of Schools and Colleges.

#### **Foreign Institutions**

Acceptance of transfer credit from foreign schools shall be subject to the student obtaining, or his or her own expense, a transcript evaluation from a Credentials Evaluation Service as designated by the Dean of Admissions.

#### **Acceptable Credit**

- A. Only lower division credit will generally be accepted. An upper division course will only be accepted if the specific course is substantially the same as the corresponding course at Long Beach City College.
- B. Second party credits will not be accepted. Example: School A, whose credits we would normally accept, has itself accepted credits from School B. We will not accept

### ***Credit by Directed Study Program***

The Directed Study Program provides challenge for the talented student. It allows the student in-depth study on any approved topic within a subject area. The following are the basic elements of the program:

1. Students must have earned at least a cumulative 3.0 (B) grade point average.
2. Students must have completed 24 units, at least 12 of which must be earned at Long Beach City College. Credit applied from other colleges must be supported by official transcripts on file with the Records Office.
3. Prior approval of the faculty mentor (the faculty member who directs the study), Department Head and School Dean must be obtained before commencing work on the project under the mentor's direction. Failure to do so may result in denial of credit for the project.
4. Directed Study may not parallel or equate with work in an approved course within the department. It is expected that Directed Study is of an advanced nature and goes beyond the treatment in an approved course or series of courses. Work involving simply the production of a book report or term paper is not deemed an appropriate project.
5. While the student's work is of an autonomous nature, it is expected the student will meet at regular intervals with his/her faculty mentor to discuss progress and seek guidance and direction.
6. The product of the directed study will be a written report or an equivalent project that demonstrates an amount of work equal to an approved course of the same number of units—54 hours of work for each unit of credit earned.
7. The project will be evaluated on a standard comparable to that used in the courses within the department granting the credit. The project will be

credits from School B through School A, but only directly from School B if otherwise acceptable.

C. Credits from other schools which are equivalent to one or more of our course offerings, or which may be used in lieu of one or more of our course offerings, may be applied to our degree and certificate requirements as if the coursework were taken here. If not equivalent, transfer credits may only be used for elective credit toward our degree and/or certificates.

D. Where equivalency of transfer credits is questionable, the Records Office shall solicit the assistance of the School and College Relations Office and the appropriate Instructional Dean or Department Head in determining whether or not a transfer credit is equivalent to our coursework.

E. Credit for six units, four in Physical Education and two in Health Education, will be granted to any student who supplies proper proof of at least one year of service in the armed forces of the United States.

F. No credit will be granted for seminars or other instruction conducted by private or public agencies even though the academic level can be shown to be equal to ours. Students in these situations may apply for credit by examination.

### ***Statement of Policies for Transfer Credit, Advanced Placement and Credit by Examination for the Associate Degree Nursing Program***

#### **General Policy:**

Candidates for transfer credit, Credit by Examination and Advanced Placement must meet the same general entrance requirements as all regular students at Long Beach City College. Acceptance into the Associate Degree or Vocational Nursing program is a prerequisite (see the curriculum guides in this catalog or in the Counseling Office for more specific information) for transfer, Credit by Examination and Advanced Placement.

#### **Transfer Credit:**

Credit for nursing courses taken at an accredited school of nursing (RN and VN) will be granted upon the following conditions:

1. Candidates must qualify for admission as listed in the general policy statement.
2. Candidates must be recommended by previous school of nursing.
3. Course work must have been completed within the last three years.
4. Credit will be given for nursing courses comparable to those offered at Long Beach City College. Credit will be given for science courses comparable to those offered at Long Beach City College or applicant must complete the following science courses at Long Beach City College:

Anatomy 1  
Physiology 1  
Biology 2 – General Microbiology

5. Credit for General Education courses will be granted according to the college policy.

#### **Advanced Placement:**

Qualifying students will be granted Advanced Placement upon completing the following conditions:

1. All students must qualify for admission as listed in the general policy statement.
2. Request advanced placement in a specific course, in writing, within the first week of that course.
3. Achieve 75 percent on a written objective examination covering the material in that course.
4. Satisfactorily pass a clinical performance examination for that course.
5. Advanced placement for the clinical portion of a course is determined by the individual teaching team.

#### **Advanced Placement: LVN to RN (Career Ladder)**

Licensed Vocational Nurses seeking advanced placement into the Registered Nursing program are urged to review the curriculum guide that is in this catalog and available in the Counseling Office.

#### **Credit by Examination (Challenge Option):**

Both Nursing Departments follow the college policy for granting Credit by Examination. Applicants with previous nursing experience must qualify for admission as listed in the General Policy statement.

Applicants with 12 semester units at Long Beach City College are granted credit upon successful completion of theory and practical examinations in the area they are challenging.

Applicants without 12 semester units at Long Beach City College will be allowed to proceed in the program after successful completion of theory and practical examination. To comply with college policy, the credit is withheld until 12 semester units are successfully completed.

Syllabi for nursing courses are available in the Learning Center for the School of Health and Science.

### ***Credit for Vocational Cooperative Work Experience Education***

Long Beach City College recognizes job experience as a valuable learning resource. The Vocational Cooperative Work Experience Education Program affords students the opportunity to earn college credit for learning, while working on their job.

Measurable learning objectives are created that the student must successfully accomplish prior to the completion of the semester. This process involves the employer directly and helps identify the learning outcomes of the student employee. The work experience instructor visits each job site to validate the learning environment and working conditions and to ensure good communication between the employer and the college.

The student must enroll in **two** courses: The first course Work Experience (2-4 units) represents the actual “on-the-job” learning and does not involve class time. The second course is the coordination class, Work Experience Issues (1 unit), which meets once a week. The student will enroll in **one** class number which will automatically enroll him/her in both courses. The only exception to this is Fashion Design and Interior Design which do not

have the Work Experience and Issues class combined under one class number. Students in these programs must enroll in two designated class numbers to be correctly registered

**Number of Work hours required for course units:**

	<b>Paid Employment</b>	<b>Volunteer</b>
2 unit Work Experience Class	75 hours	60 hours
3 units Work Experience Class	150 hours	120 hours
4 units Work Experience Class	225 hours	180 hours

While successfully completing both the **Work Experience** class and the **Work Experience Issues** class, a student may earn up to four units per semester, not to exceed a total of 16 units (or four semesters) at Long Beach City College. In some circumstances an exception to the General Repetition Rule may be made if only the two or three unit Work Experience class in a given discipline is offered. In this instance the student would be allowed to exceed the maximum four semester limit. It may be possible for the student to earn the maximum sixteen VCWEE units in the discipline in which the two or three unit classes are offered.

Students must enroll in a minimum of one additional course in the same discipline in which the Work Experience/Issues is assigned.

International Students who want to enroll in Vocational Cooperative Work Experience Education must get a release from the International Student Office prior to enrolling in Work Experience. The office is located at the Liberal Arts Campus, building “E”, (Student Center). Telephone: (562) 938-4745

Vocational Cooperative Work Experience Education units meet eligibility requirements for veteran benefits, social security and financial aid. Vocational Cooperative Work Experience operates without regard to race, age, sex, religion, color, national origin, handicap, sexual orientation, marital status, ancestry, medical condition (e.g., cancer related) or status as a veteran.

Additional information on the program and enrollment is available at the Cooperative Work Experience Education Office, located on the Liberal Arts Campus, building “F” Room 123, or by calling (562) 938-4938.

***Credit for Educational Experience in Military Service***

Long Beach City College presently requires three units in a combination of physical education and health education classes for the associate degree. Veterans may be granted these three units of credit toward graduation if they served on active duty for at least 12 continuous months. The student who needs these credits for a degree must have a copy of his/her DD-214 and file number from the Veterans’ Administration to request such credit. Please contact the Veterans Affairs Office at PCC for additional assistance.

If a veteran feels his/her military schooling provided sufficient knowledge in a particular subject area and this credit is needed for graduation or advanced placement, he/she should refer to the section, “Credit by Examination.” Each Department Head handles the

particular subjects under his/her administration. Not all departments allow Credit by Examination so check the eligibility requirements carefully, then contact the Department Head involved to make the necessary arrangements for an exam, if permissible.

***Policy on Academic Honesty***

It is the policy of the Long Beach Community College District to establish an academic environment in which inquiry is nurtured, individual responsibility is rewarded and academic dishonesty, cheating and plagiarism are not tolerated.

***Academic Freedom***

In the spirit of academic inquiry and in keeping with the code of ethics adopted by the Academic Senate of Long Beach City College, it is the policy of the Board of Trustees that the professional staff shall be free to define and discuss relevant information and concepts in the classroom or any other appropriate forum and shall be free to select materials and methods of presentation.

***Policy on Open Courses***

It is the policy of the Long Beach Community College District that, unless specifically exempted by statute, every course, course section or class, the full time equivalent student (FTES) units of which are to be reported for state aid, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets course prerequisites.

***Creating a Collegiate Environment***

**In the Classroom**

Creating a proper learning environment is the cornerstone of getting a good education. Everyone at Long Beach City College is responsible for helping to create this environment, including students. Simple rules of courtesy apply.

1. **Respect for the Instructor** - This means arriving to class on time, not leaving early, bringing appropriate materials, not speaking with other students while a lecture is in progress, not bringing food or drink to the classroom, not being loud, boisterous or argumentative.
2. **Respect for Other Students** - This means not interfering with the rights of others to listen and participate, not being disrespectful, not using inappropriate language or harassing others in any way.
3. **Academic Honesty** - Lack of honesty in the classroom is considered a very serious offense. Any form of cheating on tests, turning in work which is not one’s own (plagiarism), talking during tests, furnishing false information to instructors or knowingly misrepresenting one-self to the college is grounds for disciplinary action. The consequences of cheating are severe and may include the possibility of expulsion.
4. **Instructor’s Rights** - An instructor has the right to remove a student from class at any time he/she considers a student’s actions to be interfering with a proper collegiate environment. The instructor may

also refer the incident to the Dean of Student Affairs for disciplinary action as warranted.

5. **Student's Rights** - All students have a right to due process. If classroom conflicts occur, discuss them with your instructor during his/her office hours. Additional resources for help include the Department Head, School Dean and Vice President of Student Support Services or Designee.

### **On the Campus**

Like the classroom, creating a proper campus environment is also of great importance to assure academic and individual success. The Board of Trustees has established campus-wide standards of student conduct and simple campus rules, which are enforced at all times. These are particularly important in large common areas, such as the cafeteria, bookstore, vending, campus offices, College Center, Student Center, Activities Center, campus quads, athletic areas and other highly frequented areas.

### **Student Conduct**

All students must conform to the Standards of Student Conduct, which have been established by students and college staff and have been approved by the Board of Trustees. The Standards of Student Conduct are listed in the Academic Policies section of this catalog and are strictly enforced by the Office of Student Affairs.

### **Standards of Student Conduct**

These standards of student conduct and disciplinary action for violation of rules were established by a student-college staff committee in compliance with section 22635 of the State Educational Code, printed and distributed for students' information and guidance.

Students shall respect and obey civil and criminal law and shall be subject to the legal penalties for violation of the laws of the city, county, state and nation.

Student conduct at Long Beach City College must conform to district policy and regulations and college procedures. Violations, for which students are subject to disciplinary action, include but are not limited to the following:

1. Willful disobedience to directions of college officials (including faculty) acting in the performance of their duties.
2. Violation of college rules and regulations, including those concerning student organizations, the use of college facilities or the time, place and manner of public expression or distribution of materials.
3. Dishonesty, such as cheating or knowingly furnishing false information to the college.
4. Forgery, alteration or misuses of college documents, records or identification.
5. Unauthorized entry to or use of the college facilities.
6. Obstruction or disruption of classes, administration, disciplinary procedures or authorized college activities.
7. Theft or damage to property belonging to the college, a member of the college community on campus or at a campus activity or a visitor to the campus.

8. Disorderly, lewd, indecent or obscene conduct, including profanity.
9. Conduct which disrupts orderly operation of the college, or which disrupts educational activities of individual members of the college community including, but not limited to, the harassment of another member of the college community based on race, religion, national origin, gender, sexual orientation or any other legally protected status.
10. Use, possession, distribution or being under the influence of alcoholic beverages, illicit drugs or other controlled substances while on campus or in connection with college activities.
11. Assault or battery, abuse or any threat of force or violence directed toward any member of the college community or campus visitor engaged in authorized activities.
12. Possession, while on the college campus or at a college sponsored function, of any weapons (except by persons given permission by the superintendent-president or members of law enforcement agencies, such as police officers acting in their capacity as officers).
13. Possession of any article, not usually designated as a weapon, when used to threaten bodily harm.
14. Misuse of any computer technology, including equipment, software, network or Internet access. This includes non-compliance with any policy, regulation, rule or guideline developed by any segment of the College which relates to computer technology.

### **Campus Rules**

1. Smoking is prohibited in all buildings.
2. Eating and drinking are prohibited in all buildings except where food is sold or is part of an approved and scheduled activity.
3. Gambling on the campus is prohibited. Gaming is restricted to the PCC Student Lounge and the LAC Activities Room.
4. Animals not indigenous to the campus grounds are not allowed on campus. Exceptions shall be made for certified companion animals and those animals previously approved by college officials for specific educational purposes.
5. Literature to be distributed must be approved in the Office of Student Life.
6. Children are not allowed on campus unless under the supervision of a parent/guardian or are officially enrolled in an approved college program. Children may not attend classes with a parent/guardian unless the course is specifically designed to include children. Children must be supervised so educational activities are not interrupted and may not be left unattended in common areas, such as the library, computer labs, cafeterias, quads or lounges.
7. Unauthorized vehicles (vehicles without a parking permit) must use visitor parking or purchase a one-day parking permit.
8. Students are required to be fully attired, including shirts or blouses and footwear.

9. Skateboarding, skating and bike riding are prohibited on campus grounds, officers will cite any violations.
10. The use of radios, electronic recording devices, tape or compact disc players without headphones is prohibited on campus except in connection with approved campus/classroom activities.
11. Electronic recording devices may not be used in classrooms without the permission of the instructor.
4. **Social Suspension** - Social Suspension limits a student's attendance on campus to scheduled classroom hours. Other privileges can be set forth in the Notice of Social Suspension for a specified period of time. The imposition of social suspension involves notification in writing of the reason for social suspension to the student(s) or president of the student organization involved.
5. **Disciplinary Suspension** - Disciplinary suspension follows a hearing based on due process of law. It shall be invoked by the college president, appropriate administrator, or other staff members designated by the president upon students for misconduct when other corrective measures have failed or when the seriousness of the situation warrants such action.

### **Summary Suspension**

When serious violations of college regulations or procedures occur as a result of inappropriate student conduct, the college shall take immediate action to resolve the problem. This action may occur as follows:

1. **Removal from Class by Instructor** - Any instructor is authorized to remove a student from his/her class for the class meeting where the infraction occurs, as well as the next scheduled class meeting. The instructor shall immediately report the removal of the student to the Vice President of Student Support Services or designee, including the reason for removal, for appropriate action.
2. **Summary Suspension by Administration** - A summary suspension is an administrative action for the purpose of removing any immediate tension or threat to the well being of students and staff in order to assure that an appropriate academic environment exists. It is also for the purposes of further investigation of reported inappropriate conduct and to determine what disciplinary action, if any, is appropriate. The Dean of Student Affairs or designee may summarily suspend a student for good cause for a period of up to 10 instructional days to ensure that the intended purpose is served.
6. **Expulsion** - An expulsion is a long-term or permanent denial of all campus privileges including class attendance. The Board of Trustees may expel a student after a hearing by a campus body or upon recommendation of the Superintendent-President. Permanent expulsion and active prosecution shall automatically result for any student found to be in possession of a gun. Board action is not necessary in this instance.
7. **Restitution** - Reimbursement for damage or for misappropriation of property. Reimbursement may take the form of appropriate service to repair or otherwise compensate for damage.

### **Disciplinary Action**

Violations of the above regulations and rules subject students to the following types of disciplinary action, which are to be administered by the appropriate college authorities. These disciplinary actions are listed in degree of severity but not necessarily in sequential order. Disciplinary actions may be imposed singly or in combination. A student has the right to appeal any of the actions through established procedures of due process.

1. **Warning** - Notice to the student that continuation or repetition of specified conduct may be cause for other disciplinary action.
2. **Reprimand** - Notice to the student in writing that officially recognizes a violation of the standards of student conduct or campus rules. The reprimand admonishes the student to avoid future infractions in order to avoid additional formal action.
3. **Probation** - An official disciplinary action, which returns the offender to the college community on a promise of appropriate future behavior. Any violation of this promise mandates formal action.

**Since individual plans and circumstances vary,  
students should consult with a counselor before beginning a program of study  
to ensure the appropriate General Education pattern is followed.**

This general education plan is designed for students planning to obtain an Associate Degree. The general education requirements are only one component of the Associate Degree. Use this sheet in conjunction with the curriculum guide (located at <http://osca.lbcc.edu>) for your choice of major, and in consultation with a counselor.

Please note that **completion of an A.A./A.S. degree does not automatically qualify a student to transfer.** Students planning to transfer to a CSU or UC school should refer to the CSUGE-B or IGETC General Education Course Patterns (Plan B or Plan C at <http://osca.lbcc.edu/genedplan.cfm>) and consult with a counselor to determine the best general education pattern.

### GRADUATION PROFICIENCY REQUIREMENTS

- |  |   |  |   |
|--|---|--|---|
| <p><input type="checkbox"/> <b>MATHEMATICS:</b> A qualifying score on the LBCC Assessment Test which places a student in <u>MATH</u> 37, 37H, 40, 45, <u>STAT</u> 1, 1H, or higher; or successful completion with a grade of "C" or higher in a college math course at the level of <u>MATH</u> 120 or 130 or 130A or higher.</p> <p><input type="checkbox"/> <b>READING:</b> Satisfying this proficiency may be achieved by any one of the following:</p> <ul style="list-style-type: none"> <li>• A qualifying score achieved through multiple LBCC assessment measures <b>OR</b></li> <li>• Completion of <u>READ</u> 82 or 83 ("C" or better) at LBCC (courses taken at other colleges may be individually reviewed for equivalency by the Reading Department Chair) <b>OR</b></li> <li>• A Bachelor's Degree from an accredited college or university.</li> </ul> <p><input type="checkbox"/> <b>WRITING:</b> Complete <u>ENGL</u> 1 or 1H with a grade of "C" or better.</p> | <p><input type="checkbox"/> <b>INFORMATION COMPETENCY REQUIREMENT:</b> Information Competency is the ability to find, evaluate, use and communicate information in all its various formats. It combines aspects of library literacy, research methods and technology proficiency.</p> <p>Students must complete <b>ONE</b> course from <b>INFORMATION</b> and <b>ONE</b> course from <b>TECHNOLOGY</b> (courses <b>MUST</b> be completed with a grade of "C" or better):</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>INFORMATION</b><br/>complete one course from:</p> <p><u>ENGL</u> 1, 1H, 3, 3H<br/><u>LIB</u> 1,3</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>TECHNOLOGY</b><br/>complete one course from:</p> <p><u>CBIS</u> 6A<br/><u>CAOTC</u> 34, 35, 44D, 47A, 211<br/><u>CAOTT</u> 200<br/><u>COMIS</u> 1<br/><u>CPAS</u> 1, 10</p> </td> </tr> </table> | <p><b>INFORMATION</b><br/>complete one course from:</p> <p><u>ENGL</u> 1, 1H, 3, 3H<br/><u>LIB</u> 1,3</p> | <p><b>TECHNOLOGY</b><br/>complete one course from:</p> <p><u>CBIS</u> 6A<br/><u>CAOTC</u> 34, 35, 44D, 47A, 211<br/><u>CAOTT</u> 200<br/><u>COMIS</u> 1<br/><u>CPAS</u> 1, 10</p> |
| <p><b>INFORMATION</b><br/>complete one course from:</p> <p><u>ENGL</u> 1, 1H, 3, 3H<br/><u>LIB</u> 1,3</p>   | <p><b>TECHNOLOGY</b><br/>complete one course from:</p> <p><u>CBIS</u> 6A<br/><u>CAOTC</u> 34, 35, 44D, 47A, 211<br/><u>CAOTT</u> 200<br/><u>COMIS</u> 1<br/><u>CPAS</u> 1, 10</p>   |  |   |

### AREA REQUIREMENTS

**Double-counting** of courses listed in more than one area of the general education pattern is **NOT** allowed.

For example, HIST 25 is listed in both the American History and Social Sciences requirement areas, but it may be used to satisfy only one of these requirements. However, courses listed in a requirement area may be used to satisfy graduation proficiencies (see above section).

### ENGLISH COMPOSITION

**One Class Required (3 units minimum)--choose from:**

ENGL 1, 1H

_____	_____	_____
units	course	grade
course from: _____		

### COMMUNICATION AND ANALYTICAL THINKING

**One Class Required (3 units minimum)--choose from:**

<p><u>CAOTO</u> 15 <u>CBIS</u> 8B, 216A <u>CS</u> 11, 21 <u>ELECT</u> 225 <u>ENGL</u> 3, 3H, 4 <u>LIB</u> 3</p>	<p><u>MATH</u> 27, 28, 37, 37H, 40, 45, 47, 50, 60, 70, 80, 84, 120, 130, 130A, 130B <u>PHIL</u> 11, 12 <u>READ</u> 82, 83, 84 <u>SP</u> 10, 20, 25, 30, 60 <u>STAT</u> 1, 1H</p>
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_____	_____	_____
units	course	grade
course from: _____		

### NATURAL SCIENCES

**One Class Required (3 units minimum)--choose from:**

<p><b>Physical Sciences:</b> <u>ASTR</u> 1, 1L <u>CHEM</u> 1A, 1B, 2, 3, 12A, 12B <u>ENVR</u> 1 <u>GEOL</u> 1, 1H, 2, 2F, 2L, 3, 3H, 4, 5, 7AD, 16, 17, 18 <u>PGEOG</u> 1, 2 <u>PHYS</u> 2A, 2B, 3A, 3B, 3C</p>	<p><b>Biological Sciences:</b> <u>ANAT</u> 1, 41 <u>BIO</u> 1A, 1B, 2, 5, 11, 20, 20H, 22, 25, 28, 30, 31, 37, 41, 41H, 41L, 60, 60L, 61 <u>PHYSI</u> 1</p>
---	---

_____	_____	_____
units	course	grade
course from: _____		
_____	_____	_____
units	course	grade
course from: _____		

### SOCIAL SCIENCES

**One Class Required (3 units minimum)--choose from:**

<p><u>ANTHR</u> 1, 1H, 2, 2H, 3 <u>CDECE</u> 45, 47 <u>ECON</u> 1A, 1AH, 1B, 1BH, 4, 5<sup>4</sup> <u>FD</u> 32 <u>GEOG</u> 2, 5<sup>4</sup>, 40, 48 <u>HLED</u> 10<sup>4</sup> <u>HIST</u> 1A, 1AH, 1B, 1BH, 2A, 2B, 2C, 2CH, 5A, 5B, 6, 9A, 9B, 9C, 18, 25, 27A, 27B, 48 (<u>HIST</u> 8A, 8B, 10, 11 may be taken for the A.S. degree)</p>	<p><u>POLSC</u> 2, 4, 9, 10, 11 (<u>POLSC</u> 1, 1H, 3 may be taken for the A.S. degree) <u>PSYCH</u> 1, 1H, 2, 4, 10<sup>4</sup>, 11, 14, 33 <u>PUBAD</u> 1 <u>SOCSC</u> 1<sup>4</sup>, 1H<sup>4</sup>, 7<sup>4</sup> <u>SOCIO</u> 1, 1H, 2, 11, 13, 40</p>
--	--

_____	_____	_____
units	course	grade
course from: _____		

**⚡ Cross-listed courses.** A cross-listed course is interdisciplinary and is the same course as its cross-listed counterparts. A cross-listed course CANNOT be used in more than one subject area:

ECON 5 = GEOG 5: The Global Economy  
HUMAN 1/1H = SOCSC 1/1H: Comparative World Cultures/Honors CWC  
HUMAN 3 = PHIL 3: Intro to Issues/Phil, Psych & Religion  
HUMAN 7 = SOCSC 7: American Pluralism and Identity  
HLED 10 = PSYCH 10: Human Sexuality

### AMERICAN HISTORY

(not required for the A.S. Degree)

**One Class Required (3 units minimum)--choose from:**

HIST (8A & 8B)<sup>+</sup>, (8AH & 8BH)<sup>+</sup>, 10, 10H, 11, 11H, 25, 27A, 27B

<sup>+</sup>--Both courses must be completed to satisfy the requirement.

_____	_____	_____
units	course	grade
course from: _____		

### POLITICAL SCIENCE

(not required for the A.S. Degree)

**One Class Required (3 units minimum)--choose from:**

POLSC 1, 1H, 3

_____	_____	_____
units	course	grade
course from: _____		



## HUMANITIES AND ARTS

### One Class Required (3 units minimum)--choose from:

ART 1, 1H, 2, 2H, 3, 3H, 4, 4H, 5, 5H, 6, 7, 8, 9, 10, 11, 11H, 15, 23, 24, 26AD, 30, 31, 34AD, 35AD, 43AD, 50, 51AD, 60, 70AD, 71AD, 80  
 CHIN 1, 2, 3, 4  
 CART 41  
 DANCE 1, 19  
 ENGL 2, 26, 32, 33, 35, 36, 37, 38, 39, 41, 42, 43A, 43B, 44, 44H, 45, 45H, 46, 47, 48, 48H, 49, 49H, 79  
 FILM 1  
 FREN 1, 2, 3, 4, 8AD, 25A, 25B, 25C, 25D  
 GER 1, 2, 3, 3H, 4, 4H, 8AD, 25A, 25B, 25C, 25D  
 HUMAN 1<sup>4</sup>, 1H<sup>4</sup>, 7<sup>4</sup>

ID 80, 90  
 ITAL 1, 2, 3, 4  
 JAPAN 1, 2, 3, 4  
 MUSIC 6, 30A, 30B, 31, 32, 33B, 35, 40, 40H, 89  
 PHIL 3<sup>4</sup>, 6, 6H, 7, 7H, 8, 9, 14  
 PHOTO 10  
 R\_TV 1  
 SPAN 1, 2, 3, 3H, 4, 8AD, 9, 10, 25A, 25B, 25C, 25D  
 SP 50  
 TART 1, 25, 30  
 VIET 1

units \_\_\_\_\_ course \_\_\_\_\_ grade \_\_\_\_\_  
 course from: \_\_\_\_\_

**⚠ Cross-listed courses.** A cross-listed course is interdisciplinary and is the same course as its cross-listed counterparts. A cross-listed course CANNOT be used in more than one subject area:

ECON 5 = GEOG 5: The Global Economy  
 HUMAN 1/1H = SOCSC 1/1H: Comparative World Cultures/Honors CWC  
 HUMAN 3 = PHIL 3: Intro to Issues/Phil, Psych & Religion  
 HUMAN 7 = SOCSC 7: American Pluralism and Identity  
 HLED 10 = PSYCH 10: Human Sexuality

## PHYSICAL FITNESS/WELLNESS

**Courses fulfilling Physical Fitness/Wellness provide content focused primarily on any of the following: physical activity, fitness, healthy eating, weight management, and stress management.**

### One UNIT Required--choose from:

DANCE: 3AD, 5AB, 6AB, 8AD, 10AB, 11AB, 12AD, 13AD, 14AB, 17AB, 18AD, 20AB, 21AB, 31AB, 32AB, 33AD, 41/1, 41/2, 41/3, 41AD, 60AD  
 F\_N: 26, 250, 255C, 255D, 256, 260AD, 261AD, 262AD, 361AD, 362AD  
 PEA: 1AD  
 PEG: 9AD, 10AD, 11AD, 12AD, 13AD, 14AD, 19AD, 20AD, 31AD, 32AD, 55AD, 65AD, 66AD, 69AD, 70AD, 73AD, 74AD, 75AD, 76AD, 83AD, 84AD, 85AD, 86AD, 87AD, 88AD, 89AD, 90AD  
 PEIA: 1AD, 3AD, 3M1, 5AD, 7AD, 7M1, 9AD, 13AD, 13M1, 15AD, 17AD, 19AD, 19M1, 21AD, 23AD, 27AD, 27M1, 29AD, 31AD, 35AD, 37AD, 37M1, 39AD, 41AD, 43AD, 43M1, 45AD, 47AD, 47M1  
 PEOS: 5AD, 44AD, 55AD, 56AD, 58AD  
 PEPE: 2AD, 3AD, 4AD, 5AD, 6AD, 8AD, 10AD, 21AD, 22AD, 41AD, 42AD, 47AD, 48AD, 53AD, 54AD, 81AD, 83AD, 84AD  
 PEPP: 7, 10, 13, 15, 17, 19AD, 25AD, 27, 29, 31, 35, 37, 41, 51, 53, 55, 61, 63, 65, 67  
 TART: 1B, 2C

units \_\_\_\_\_ course \_\_\_\_\_ grade \_\_\_\_\_  
 course from: \_\_\_\_\_

units \_\_\_\_\_ course \_\_\_\_\_ grade \_\_\_\_\_  
 course from: \_\_\_\_\_

## HEALTH EDUCATION

### 3 Units Minimum Required--choose from:

One class chosen from:  
 HLED 3, 4, 5  
 F\_N 20

OR

**BIO 60 & 61 & PSYCH 1**<sup>+</sup> or  
**ANAT 41 & DMI 60 & PSYCH 1**<sup>+</sup> or  
**ANAT 1 & PHYSI 1 & PSYCH 1**<sup>+</sup>

<sup>+</sup>--All courses grouped in boxes must be completed to satisfy the requirement.

units \_\_\_\_\_ course \_\_\_\_\_ grade \_\_\_\_\_  
 course from: \_\_\_\_\_

units \_\_\_\_\_ course \_\_\_\_\_ grade \_\_\_\_\_  
 course from: \_\_\_\_\_

units \_\_\_\_\_ course \_\_\_\_\_ grade \_\_\_\_\_  
 course from: \_\_\_\_\_

## OTHER GRADUATION REQUIREMENTS

### G.P.A. REQUIREMENTS

**For Graduation:** A minimum major, LBCC, and cumulative G.P.A. of 2.0 ("C" average) based on all grades from all colleges from which courses are applied to LBCC degree. Some fields may have additional G.P.A. requirements; check the appropriate curriculum guide.

LBCC G.P.A.  
minimum 2.0 required

Cumulative G.P.A.  
minimum 2.0 required

### CONTINUOUS ENROLLMENT

Continuous Enrollment is enrollment in and receiving a grade (A, B, C, D, F, P or NP) in at least one class per ACADEMIC YEAR (August to June) at LBCC or any other accredited higher education institution after being initially enrolled at LBCC. Students enrolled in non-credit courses may qualify for continuous enrollment if the course instructor has noted satisfactory progress in the class rollbook. For additional information, see [Degrees and Programs](#) section of the catalog.

### COURSE TOTALS:

General Education Units Completed:

General Education Units Total must equal:  
**25 units for the A.A.**  
**19 units for the A.S.**

+

Field of Concentration (Major) Units Completed:

+

General Elective Units Completed:

=

Overall Total Units: **MUST EQUAL AT LEAST 60 units.**

**For Graduation:** Complete a minimum of 60 AA/AS applicable units (LBCC courses numbered 1-599). Some fields of concentration may require more units--consult the appropriate curriculum guide (<http://osca.lbcc.edu>).

### DEGREE RESIDENCY

Meet one of the following requirements:

A) Minimum of 20 units within the last 30 units applied to the degree must be completed at LBCC

OR

B) at least 50% of the units required for a degree must be completed at LBCC.

$$\frac{\text{# of degree-applicable units completed at LBCC**}}{\text{# of Units Required (should be at least 60, actual total varies by major)}} \times 100 = \text{# of units completed at LBCC (MUST BE 50% or Greater)} \%$$

\*\* Only LBCC courses numbered 1-599 are applicable to the degree.

### FIELD OF CONCENTRATION (MAJOR) RESIDENCY

For the field of concentration (LBCC Major), 50% of the requirements as defined by the appropriate curriculum guide must be completed at LBCC.

$$\frac{\text{# of Major Units completed at LBCC}}{\text{# of Major Units Required}} \times 100 = \text{# of Major Units completed at LBCC (MUST BE 50% or Greater)} \%$$

### APPLICATION FOR GRADUATION

To receive a degree you must complete and submit the Application for Graduation form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office or online at <http://admissions.lbcc.edu/>.

Refer to the Schedule of Classes (<http://schedule.lbcc.edu>) and click the "Important Dates" link to view the actual deadline for each semester.

**2011-12 Plan A Checklist: Published May 2011,**  
 Long Beach City College Office of School and College Articulation.  
 All information contained herein is subject to change without notice.

**LONG BEACH CITY COLLEGE**  
**2011-2012 GENERAL EDUCATION REQUIREMENTS**  
**CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION-BREADTH**

*All information contained herein is subject to change without notice.*

**Since individual plans and circumstances vary,  
students should consult with a counselor before beginning a program of study  
to ensure the appropriate General Education pattern is followed.**

These requirements are designed for students planning to **transfer** to the **California State University (CSU)**. Courses on this pattern are lower-division general education breadth requirements specific to the California State University System and used to obtain full or partial certification.

Students planning to transfer to the University of California should refer to the IGETC General Education Pattern (Plan C). Students planning to earn an associate degree and NOT transfer should follow Plan A. Both Plans A and C are accessible at <http://osca.lbcc.edu/genedplan.cfm>.

**AREA REQUIREMENTS**

**Double-counting** of courses listed in more than one area of this general education pattern is **NOT** allowed.

For example, PHIL 3 is listed in areas C2 (Humanities) and D7 (Social Sciences), but it may be used to satisfy only one of these requirements.

**AREA A1: ORAL COMMUNICATION**

**Area A1--One Class Required (3 units minimum)--choose from:**

SP 10, 20, 30, 60

_____ units	_____ course	_____ grade
course from: _____		

**AREA A2: WRITTEN COMMUNICATION**

**Area A2--One Class Required (3 units minimum)--choose from:**

ENGL 1, 1H

_____ units	_____ course	_____ grade
course from: _____		

**AREA A3: CRITICAL THINKING**

**Area A3--One Class Required (3 units minimum)--choose from:**

ENGL 3, 3H, 4  
PHIL 11, 12  
READ 84  
SP 60

_____ units	_____ course	_____ grade
course from: _____		

**AREA B: SCIENTIFIC INQUIRY**      **AREA B1: PHYSICAL SCIENCE**  
**AREA B2: LIFE SCIENCE**  
**AREA B3: LABORATORY ACTIVITY**

**Area B--Two Classes Required (6 units minimum)**

*NOTE: One class in this area must include a laboratory (Area B3). ♦--Indicates a lab course (Area B3).*

**Area B1--Physical Sciences:**

**Complete 1 class**

ASTR 1, 1L♦  
CHEM 1A♦, 1B♦, 2♦, 3♦  
ENVR 1  
GEOL 1♦, 1H♦, 2, 2F, 2L♦, 3, 3H♦, 4♦, 5, 7AD, 18  
PGEOG 1, 2  
PHYS 2A♦, 2B♦, 3A♦, 3B♦, 3C♦

**Area B2--Biological Sciences:**

**Complete 1 class**

ANAT 1♦, 41♦  
BIO 1A♦, 1B♦, 2♦, 5♦, 11, 20♦, 20H♦, 22, 25, 30♦,  
41, 41H, 41L♦, 60, 60L♦, 61  
PHYSI 1♦

B1 units	B1 course w/ lab? Y or N	B1 grade
----------	-----------------------------	----------

course from: \_\_\_\_\_

B2 units	B2 course w/ lab? Y or N	B2 grade
----------	-----------------------------	----------

course from: \_\_\_\_\_

**AREA B4: MATHEMATICS/QUANTITATIVE REASONING**

**Area B4--One Class Required (3 units minimum)--choose from:**

MATH 27, 28, 37, 37H, 40, 45, 47, 50, 60, 70, 80, 84  
STAT 1, 1H

_____ units	_____ course	_____ grade
course from: _____		

**AREA C: ARTS & HUMANITIES**

**Area C--Three Classes Required (9 Units Minimum)**

*NOTE: Students must complete one class from both Areas C1 and C2 and a second course from either Area (for a total of 3 classes).*

**Area C1--choose from:**

ART 1, 1H, 2, 2H, 3, 3H, 4, 4H, 5, 5H, 6, 7, 9, 10,  
11, 11H, 30, 31, 80  
CART 41  
DANCE 1, 19  
FILM 1  
ID 80, 90  
MUSIC 6, 30A, 30B, 31, 32, 33B, 35, 40, 40H, 89  
PHOTO 10  
R-TV 1  
SP 50  
TART 1, 25, 30

**Area C2--choose from:**

CHIN 1, 2, 3, 4  
ENGL 2, 26, 32, 33, 35, 36, 37, 38, 39, 41, 42, 43A,  
43B, 44, 44H, 45, 45H, 46, 47, 48, 48H, 49, 49H, 79  
FREN 1, 2, 3, 4, 25A, 25B, 25C, 25D  
GER 1, 2, 3, 3H, 4, 4H, 25A, 25B, 25C, 25D  
HIST 1A, 1AH, 1B, 1BH, 2A, 2B, 2C, 2CH, 5A, 5B,  
6, 8A, 8AH, 8B, 8BH, 9A, 9B, 9C, 10\*, 10H\*, 11\*,  
11H\*, 18, 25, 27A, 27B  
SOCSC 1\*, 1H\*, 7\*  
HUMAN 1\*, 1H\*, 7\*  
ITAL 1, 2, 3, 4  
JAPAN 1, 2, 3, 4  
PHIL 3\*, 6, 6H, 7, 7H, 8, 9, 14  
SPAN 1, 2, 3, 3H, 4, 9, 10, 25A, 25B, 25C, 25D  
VIET 1

C1 units	C1 course	C1 grade
----------	-----------	----------

course from: \_\_\_\_\_

C2 units	C2 course	C2 grade
----------	-----------	----------

course from: \_\_\_\_\_

_____ units	_____ third course	_____ grade
-------------	--------------------	-------------

course from: \_\_\_\_\_

**AREA D: SOCIAL SCIENCES**

**Area D--Three Classes Required (9 units minimum)--choose from:**

*NOTE: Courses must be taken in at least two different disciplines (D1-D0).*

- D1 ANTHR 1, 1H, 2, 2H, 3, 10
- D2 ECON 1A, 1AH, 1B, 1BH, 4
- D3 HIST 27A, 27B;  
SOCIO 13
- D4 HIST 25
- D5 GEOG 2, 40
- D6 HIST 1A, 1AH, 1B, 1BH, 2A, 2B, 2C, 2CH, 5A,  
5B, 6, 8A, 8AH, 8B, 8BH, 9A, 9B, 9C, 18
- D7 ECON 5<sup>+</sup>;  
GEOG 5<sup>+</sup>;  
HUMAN 1<sup>+</sup>, 1H<sup>+</sup>, 7<sup>+</sup>;  
PHIL 3<sup>+</sup>;  
SOCSC 1<sup>+</sup>, 1H<sup>+</sup>, 7<sup>+</sup>;  
SP 25;  
CDECE 45
- D8 POLSC 1<sup>+</sup>, 1H<sup>+</sup>, 2, 3, 4, 9, 10, 11;  
PUBAD 1
- D9 PSYCH 1, 1H, 11, 14, 33
- D0 SOCIO 1, 1H, 2, 11, 13, 40

units	course	grade
course from: _____		
units	course	grade
course from: _____		
units	course	grade
course from: _____		

**AREA E: LIFELONG LEARNING & SELF-DEVELOPMENT**

**3 Units Minimum Required--choose from:**

Complete One class from:  
CDECE 45, 47  
COUNS 7  
F\_N 20  
HLED 3, 4, 5, 10<sup>+</sup>  
PSYCH 4, 10<sup>+</sup>

OR

Complete one of the following:  
(HLED 2 & 1 unit P.E. Activity)<sup>+</sup> OR  
(PEPP 41 & 1 unit P.E. Activity)<sup>+</sup>

<sup>+</sup>--All courses grouped together must be completed to satisfy the requirement.

*Check the approved CSU GE-Breadth Certification Area E course list on the ASSIST web site (www.assist.org) to determine which P.E. Activity courses satisfy this requirement.*

units	course	grade
course from: _____		
units	course	grade
course from: _____		

**CSU U.S. HISTORY, CONSTITUTION, and AMERICAN IDEALS GRADUATION REQUIREMENT**

**CSU Graduation Requirement**

**Complete both the History and Political Science sections below:**

*Only courses completed at LBCC may be used to certify this requirement. Students may complete this requirement after transfer to a CSU.*

**History--3 Units Minimum Required--choose from:**

- HIST (8A & 8B)<sup>+</sup>, (8AH & 8BH)<sup>+</sup>,  
10, 10H, 11, 11H

**Political Science--One Class Required (3 Units Minimum)--choose from:**

- POLSC 1, 1H

units	course	grade
course from: _____		
units	course	grade
course from: _____		
units	course	grade
course from: _____		

**ADDITIONAL INFORMATION**

**ADMISSIONS**

Effective Fall 2005, the CSU requires completion of a minimum of 60 transferable units for junior standing for students not eligible for admission to CSU from high school. LBCC courses numbered 1-99 will transfer to all CSU campuses.

As part of the 60 units, 30 units of General Education must be completed, including the Golden Four (Areas A1, A2, A3, and B4). The Golden Four must be completed with a grade of "C"/"P" or better for admissions purposes.

A maximum of 70 transferable semester units earned at a California community college will be accepted by a CSU toward a Bachelor's Degree.

Generally, a 2.0 overall G.P.A. in CSU transferable units (LBCC courses numbered 1-99) is the required minimum. Certain impacted/popular majors and universities may require a higher G.P.A. (See university admissions websites or www.csumentor.edu for more information.)

The on-line application for CSU is located at www.csumentor.edu.

**Priority Application Filing Periods:**

- Fall Quarter/Semester: October 1 - November 30
- Winter Quarter/Semester: June 1 - 30
- Spring Quarter/Semester: August 1 - 30
- Summer Quarter: February 1 - 28

**\*\*Check with counselor for open filing periods\*\***

**LEGEND**

- + All courses grouped in parentheses "(+)" must be completed to satisfy the requirement.
- Acceptable for use in this category only if not used in fulfillment of the United States History, Constitution, and American Ideals requirement.
- ◆ Denotes laboratory classes.
- ◐ **Cross-listed courses.** A cross-listed course is interdisciplinary and is the same course as its cross-listed counterpart. A cross-listed course CANNOT be used in more than one discipline NOR can it be used to certify more than one area on Plan B:  
ECON 5 = GEOG 5: The Global Economy  
HUMAN 1/1H = SOCSC 1/1H: Comparative World Cultures/Honors CWC  
HUMAN 3 = PHIL 3: Intro to Issues/Phil, Psych & Religion  
HUMAN 7 = SOCSC 7: American Pluralism and Identity  
HLED 10 = PSYCH 10: Human Sexuality

**CERTIFICATION**

Certification is the process whereby Long Beach City College approves lower-division general education course work for CSU transfer. Only courses taken from approved lists are eligible for certification for CSU GE-Breadth. When a transcript is certified by LBCC, it is marked to indicate that the lower-division general education requirements for CSU have been met. Completion of the full 39 unit pattern is recommended. With permission of the CSU, students may transfer to a CSU and return to LBCC to complete classes for certification. Students must see a counselor to use non-LBCC courses on this plan.

**Certification requirements:**

--A minimum of 12 General Education Units must be completed in residence at LBCC in order to qualify for certification.

The following requirements, known as "The Golden Four," each must be completed:

- Area A1 Completed
- Area A2 Completed
- Area A3 Completed
- Area B4 Completed

**NOTES:**

**2011-12 CSU GE-Breadth (Plan B): Published May 2011,**  
Long Beach City College Office of School and College Articulation.  
*All information contained herein is subject to change without notice.*

# LONG BEACH CITY COLLEGE

## 2011-2012 GENERAL EDUCATION REQUIREMENTS

### INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

*All information contained herein is subject to change without notice.*

**Since individual plans and circumstances vary,  
students should consult with a counselor before beginning a program of study  
to ensure the appropriate General Education pattern is followed.**

These requirements are designed for students planning to **transfer** to the **University of California (UC)** system or the **California State University (CSU)** system. Courses on this pattern are lower-division general education requirements unique to IGETC and established by the UC and CSU. Students **MUST** meet with an LBCC counselor to initiate and complete the IGETC Certification process.

Students who wish to complete an Associate Degree and do not plan to transfer should **NOT** follow this plan.

**A GRADE OF "C" OR BETTER IS REQUIRED IN EACH COURSE**

**AREA REQUIREMENTS**

**Double-counting** of courses listed in more than one area of this general education pattern is **NOT** allowed.  
For example, PHIL 3 is listed in areas 3B (Humanities) and 4G (Social Sciences), but it may be used to satisfy only one of these requirements.

**AREA 1A: ENGLISH COMPOSITION**

**Area 1A--One Class Required (3 units minimum)--choose from:**

ENGL 1, 1H

_____	_____	_____
units	course	grade
course from: _____		

**AREA 1B: CRITICAL THINKING AND COMPOSITION**

**Area 1B--One Class Required (3 units minimum)--choose from:**

ENGL 3, 3H, 4

_____	_____	_____
units	course	grade
course from: _____		

**AREA 1C: ORAL COMMUNICATION (Required by CSU Only)**

**Area 1C--One Class Required (3 units minimum)--choose from:**

NOTE: This area required by CSU only.

SP 10, 30, 60

_____	_____	_____
units	course	grade
course from: _____		

**AREA 2: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING**

**Area 2--One Class Required (3 units minimum)--choose from:**

MATH 37, 37H, 45\*, 47\*, 50, 60\*, 70, 80, 84  
STAT 1, 1H

_____	_____	_____
units	course	grade
course from: _____		

**AREA 3: ARTS AND HUMANITIES**

**Area 3--Three Classes Required (9 units minimum)**

*NOTE: Students must complete one class from both the Arts and Humanities lists and a second course from either list (for a total of 3 classes).*

**Area 3A--Arts--One Class Minimum required--choose from:**

ART 1, 1H, 2, 2H, 3, 3H, 4, 4H, 5, 5H, 10, 11, 11H  
CART 41  
DANCE 1, 19  
FILM 1  
MUSIC 30A, 30B, 32, 33B, 35, 40, 40H, 89  
PHOTO 10  
TART 25, 30

**Area 3B--One Class Minimum required--choose from:**

CHIN 3, 4  
ENGL 32, 33, 35, 36, 37, 38, 39, 41, 42, 43A, 43B, 44, 44H, 45, 45H, 46, 47, 48, 48H, 49\*, 49H\*, 79  
FREN 3, 4, 25A, 25B, 25C, 25D  
GER 3, 3H, 4, 4H, 25A, 25B, 25C, 25D  
HIST 1A, 1AH, 1B, 1BH, 2A, 2B, 2C, 2CH, 5A, 5B, 6, 8A, 8AH, 8B, 8BH, 9A, 9B, 9C, 10\*, 10H\*, 11\*, 11H\*, 18, 25, 27A, 27B  
HUMAN 1<sup>4</sup>, 1H<sup>4</sup>, 7<sup>4</sup>  
ITAL 3, 4  
JAPAN 3, 4  
PHIL 3<sup>4</sup>, 6, 6H, 7, 7H, 8, 9, 14  
SOCS 1<sup>4</sup>, 1H<sup>4</sup>, 7<sup>4</sup>  
SPAN 3\*, 3H\*, 4\*, 9\*, 10\*, 25A, 25B, 25C, 25D

_____	_____	_____
units	course	grade
course from: _____		

_____	_____	_____
units	course	grade
course from: _____		

_____	_____	_____
units	third course	grade
course from: _____		

_____	_____	_____
course from: _____		

**AREA 4: SOCIAL AND BEHAVIORAL SCIENCES**

**Area 4--Three Classes Required (9 units minimum)--choose from:**

NOTE: Courses must be taken in at least two different disciplines (4A-4J).

<p>4A <u>ANTHR 1, 1H, 2, 2H, 3, 10</u></p> <p>4B <u>ECON 1A, 1AH, 1B, 1BH, 4</u></p> <p>4E <u>GEOG 2, 40</u></p> <p>4G <u>ECON 5*<sup>4</sup>;</u> <u>GEOG 5*<sup>4</sup>;</u> <u>HUMAN 1<sup>4</sup>, 1H<sup>4</sup>, 7<sup>4</sup>;</u> <u>PHIL 3<sup>4</sup>;</u> <u>SOCS 1<sup>4</sup>, 1H<sup>4</sup>, 7<sup>4</sup>;</u> <u>SP 25</u></p>	<p>4H <u>POLSC 1, 1H, 2, 3, 4, 9, 10, 11</u></p> <p>4I <u>PSYCH 1, 1H, 11, 14</u></p> <p>4J <u>SOCIO 1, 1H, 2, 11, 13, 40</u></p>
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_____	_____	_____
units	course	grade
course from: _____		

_____	_____	_____
units	course	grade
course from: _____		

_____	_____	_____
units	course	grade
course from: _____		

**AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES**

**Area 5--Two Classes Required (7 units minimum)**

*NOTE: One class in this area must include a laboratory. ♦--Denotes Laboratory Classes.*

**Physical Sciences:**

**One Class Required (3 units minimum)**  
 ASTR 1, 1L♦  
 CHEM 1A♦, 1B♦, 2♦, 3♦  
 GEOL 1♦\*, 1H♦\*, 2\*, 2L♦, 3, 3H♦, 5, 18  
 PGEOG 1, 2  
 PHYS 2A♦\*, 2B♦\*, 3A♦\*, 3B♦\*, 3C♦\*

**Biological Sciences:**

**One Class Required (3 units minimum)**  
 ANAT 1♦\*, 41♦\*  
 BIO 1A♦, 1B♦, 2♦, 5♦\*, 20♦, 20H♦, 30♦\*,  
 41\*, 41H\*, 41L♦, 60\*, 60L♦\*, 61\*  
 PHYS 1♦\*

units	course	grade
	w/ lab? Y or N	
course from: _____		
units	course	grade
	w/ lab? Y or N	
course from: _____		

**AREA 6: LANGUAGE OTHER THAN ENGLISH PROFICIENCY (Required by UC Only)**

**Area 6--Language Other Than English (required by UC only).**  
**Proficiency equivalent to two years of high school study in the same language.**  
**This requirement may be met by any ONE of the following options**

--Completion of two years of foreign language in high school with a grade of "C" or better.

**OR**

--Performance on foreign language proficiency tests administered at a campus of the UC.

**OR**

--Earn a score of 550 on an appropriate College Board Achievement Test.

**OR**

--Completion of a second or more advanced level of foreign language course offered at LBCC, chosen from:

CHIN 2, 3, 4  
 SIGN 2B, 3A, 3B  
 FREN 2, 3, 4  
 GER 2, 3, 3H, 4, 4H  
 ITAL 2, 3, 4  
 JAPAN 2, 3, 4  
 SPAN 2, 3, 3H, 4, 9, 10

units	course	grade
course from: _____		

**AREA 7: CSU U.S. HISTORY, CONSTITUTION and AMERICAN IDEALS GRADUATION REQUIREMENTS (Required by CSU Only)**

**CSU Graduation Requirement**

**Complete both the History and Political Science sections below:**

*Only courses completed at LBCC may be used to certify this requirement. Students may complete this requirement after transfer to a CSU.*

**History--3 Units Minimum Required--choose from:**  
 HIST (8A & 8B)†, (8AH & 8BH)†, 10, 10H, 11, 11H

**Political Science--One Class (3 units minimum) Required--choose from:**  
 POLSC 1, 1H

units	course	grade
course from: _____		

units	course	grade
course from: _____		

**ADDITIONAL INFORMATION**

**UC ADMISSIONS**

Minimum admission requirements include:

- at least 60 transferable units.
- at least a 2.4 G.P.A. in transferable units.

UC transferable units are noted in the LBCC Catalog and Schedule of Classes. This information is also available on ASSIST, at [www.assist.org](http://www.assist.org). To locate the transferable course list on [www.assist.org](http://www.assist.org), choose Long Beach City College in the drop down list. After the new page loads, click the "UC Transferable Courses" link.

Some majors require a higher G.P.A. for admission. See application and major requirements for more information.

Only 14 UC transferable units may be completed on a P/NP basis.

A maximum of 70 transferable semester units earned at California Community Colleges will be accepted by the UC system toward a degree.

**UC Priority Application Filing Periods:**

Fall Quarter/Semester: November 1 - 30  
 Winter Quarter: July 1 - 31  
 Spring Quarter: October 1 - 31 (except Berkeley)  
 Spring Semester-UC Merced: July 1 - 31

**\*\*Check with counselor for open filing periods\*\***

**CSU ADMISSIONS**

Minimum admission requirements include:

- at least 60 transferable units.
- at least a 2.0 G.P.A. in transferable units.

CSU transferable units are LBCC courses numbered 1-99.

Certain impacted/popular majors and universities may require a higher G.P.A. (See university admissions websites or [www.csumentor.edu](http://www.csumentor.edu) for more information.)

A maximum of 70 transferable semester units earned at California Community Colleges will be accepted by a CSU toward a Bachelor's degree.

**CSU Priority Application Filing Periods:**

Fall Quarter/Semester: October 1 - November 30  
 Winter Quarter/Semester: June 1 - 30  
 Spring Quarter/Semester: August 1 - 30  
 Summer Quarter: February 1 - 28

**\*\*Check with counselor for open filing periods\*\***

**IGETC CERTIFICATION**

Certification is the process whereby Long Beach City College approves lower-division general education course work for CSU or UC transfer. Only courses taken from approved lists are eligible for certification for IGETC.

To use the IGETC, all courses must be completed at an accredited community college or university prior to transfer. This means that courses may be transferred from one community college or university to another and may be used for certification. Students who begin their college work at any UC may NOT use the IGETC for transfer back to the same UC.

A grade of "C" or better is required in each class.

**LEGEND**

- † All courses grouped in parentheses "(+)" must be completed to satisfy the requirement.
- Acceptable for use in this category only if not used in fulfillment of the United States History, Constitution, and American Ideals requirement.
- ♦ Denotes laboratory classes.
- \* Indicates course limitations may exist. For an explanation of limitation, please refer to the UC Transfer Course Agreement, which is available on the ASSIST web site at [www.assist.org](http://www.assist.org).
- ◀ **Cross-listed courses.** A cross-listed course is interdisciplinary and is the same course as its cross-listed counterpart. A cross-listed course CANNOT be used in more than one discipline NOR can it be used to certify more than one area on Plan C:  
 ECON 5 = GEOG 5; The Global Economy  
 HUMAN 1/1H = SOCS 1/1H; Comparative World Cultures/Honors CWC  
 HUMAN 3 = PHIL 3; Intro to Issues/Phil, Psych & Religion  
 HUMAN 7 = SOCS 7; American Pluralism and Identity  
 HLED 10 = PSYCH 10; Human Sexuality

**NOTES:**

**2011-12 IGETC (Plan C): Published May 2011,**  
 Long Beach City College Office of School and College Articulation.  
 All information contained herein is subject to change without notice.

### ***Associate Degree and Transfer Programs***

In accordance with the Long Beach City College mission statement, our school offers three possible degree patterns. These three patterns are listed below as Plan A, B and C. If a student wants to select courses to prepare for a career immediately after graduation from Long Beach City College, he or she should choose Plan A. **Under Plan A, a student can finish an Associate Degree and combine it with one of Long Beach City College's Certificate Programs or prepare for transfer.** Many employers prefer their employees to have both a degree and a certificate. If students are interested in an Associate Degree and a career, then Plan A should be followed. All students, however, should be aware that such a plan requires continuous enrollment. All students seeking such career goals need advice to achieve good results. To accomplish the most with your time in school, students are encouraged to meet with a counselor. Counselors know best how to combine a degree with a Certificate program.

If a student wants to complete an Associate Degree and transfer to a B.A./B.S. program, then the general education (G.E.) patterns Plan B and C should be followed. **Plan B will prepare students for transfer to the California State University System. Plan C will prepare students for transfer to either the University of California or the California State University systems.** It is imperative for students to see a counselor for use of this plan. Students may also choose to attend a private university or college, or they may wish to transfer out of state. If you have such plans, see a counselor or go to the Transfer Center. While the UC System requires continuous enrollment, the CSU adds a definition of continuous attendance for successful transfer. If students are careful in the courses they select, they will be able to complete an Associate Degree and a transfer program at the same time. The best way for a student to prepare such a program would be to make an appointment with a counselor. Long Beach City College's counselors have a complete list of transfer requirements and can help to design the most efficient program to meet your needs.

Finally, the G.E. patterns listed as Plan A, B and C represent three different ways one can prepare for a degree. The plan best suited for you requires careful consideration. Long Beach City College Counselors have the knowledge you need to get the most out of your education. If a student wanted a program that combined a career, transfer and a degree, a counselor could show him/her how to achieve all three in the shortest amount of time. Therefore, making an appointment with a counselor as soon as possible is probably the first logical step everyone should take in their educational career.

**STUDENTS SHOULD BE AWARE THAT STARTING ONE PLAN DOESN'T PRECLUDE CHANGING TO ANOTHER. IT IS POSSIBLE TO CHANGE PLANS WITH PROPER COUNSELING. STUDENTS SHOULD BE ADVISED THAT THE ASSOCIATE DEGREE COMPRISES TWO MAJOR COMPONENTS: A GENERAL EDUCATION PATTERN AND A FIELD OF CONCENTRATION. A TRANSFER PROGRAM COMPRISES THREE MAJOR COMPONENTS: ADMISSION REQUIREMENTS, A GENERAL EDUCATION REQUIREMENT AND A MAJOR FIELD OF PREPARATION.**

#### **Determination of Requirements to be Used for Certificates, the A.A./A.S. Degree and General Education Certification**

Students may be granted an A.A./A.S. Degree and/or be certified for general education based on the requirements in effect at any time between their initial enrollment at Long Beach City College and the present, provided **continuous** enrollment is maintained throughout. If continuous enrollment is not maintained, students may only use requirements in effect beginning with such time as continuous enrollment was established and maintained to the present.

#### **Definition of Continuous Enrollment**

"Continuous enrollment" shall be defined as enrollment in, and receiving a grade for, at least one class per academic year at Long Beach City College or any other accredited higher educational institution, after having initially enrolled at Long Beach City College. Continuous enrollment secures "catalog rights" for the student. **Catalog rights** are defined as guaranteeing students the specific degree requirements of the year they first enrolled. Continuous enrollment applies to all students interested in earning an Associate Degree or transferring to the University of California.

"**Continuous Attendance**" is a definition of enrollment that applies to those Long Beach City College students interested in transferring to the CSU system. Since the CSU system defines "continuous attendance" as enrollment at an accredited college "...for at least one semester or two quarters in any one calendar year," transfer students must be careful to combine "continuous enrollment" with "continuous attendance." The difference between these two definitions rests on how a school defines a "year." Long Beach City College must use the academic year (fall and spring semesters) and the CSU system must use the calendar year (January to December). When students combine continuous enrollment and attendance definitions, they need to attend at least one class every semester until they transfer. Only this way can they secure their catalog rights. Because of the confusion these two definitions might create, Long Beach City College strongly recommends that all new students see a counselor.

Acceptable grades that will satisfy continuous enrollment are A-F, CR and NC. This policy is effective for students who established continuous enrollment at the start of the Fall 1983 semester or later. Coursework transferred from other institutions will be evaluated for satisfaction of all Associate Degree requirements, including the proficiency requirements and for certificates of completion.

Military personnel who had to withdraw with grades of MW because of military orders will be given one academic year after the end of the military conflict to return to college without losing their continuous enrollment status and catalog rights.

**Students who encounter problems fulfilling both the general education and the field of concentration requirements in effect for any one year may appeal immediately to the Graduation Appeals Committee.**

#### **Dual Associate Degrees**

Students seeking multiple degrees in the same term must meet the following requirements:

1. To obtain a dual degree students must complete a minimum of 80 semester units and a third degree would require a total of 100 semester units. Each additional degree would require an additional 20 semester units that are unique to the additional degree.
2. Fifty percent or 20 units (whichever is less) of the major requirements from the second degree must be distinct from the first degree. In addition to the above requirements, degree requirements, including degree residency requirements, scholarship, field of concentration, and general education and proficiency requirements must also be met.

#### **Post Associate Degree(s):**

Students wishing to obtain an additional Associate Degree after they have received their first degree must obtain twenty additional units at LBCC after receiving the last degree. Degree requirements for an additional degree will start at the time the students enroll after receiving the initial Associate Degree. In addition to the above requirements, degree requirements, including degree residency requirements, scholarship, field of concentration, and general education and proficiency requirements must also be met.

### ***Philosophy of Education Leading to a Career, a Certificate of Achievement or a Certificate of Accomplishment***

Long Beach City College provides many opportunities for students to gain marketable skills. Critical thinking experiences are included as part of the training. Changing technologies have placed greater demands on workers and critical thinking skills are necessary for success in most occupations.

Occupational programs teach the theory and the practical applications of a career. The goal of an occupational program is gainful employment. The course of study for such a program will enable students to become familiar with the requirements and methods of an occupation to progress beyond an entry-level

position. One of the college's goals is to help students make informed career decisions.

A **Certificate of Achievement** is defined as a course of study consisting of at least 18 units; a **Certificate of Accomplishment** is defined as a course of study consisting of less than 18 units—both in a specific occupational area. Students must complete 50 percent or more of the total units required for a certificate while enrolled at Long Beach City College. For specific unit requirements, consult the program director. All **Certificates of Achievement** and **Certificates of Accomplishment** are reviewed by advisory committees comprised of representatives of the industry, students and faculty. This assures that programs meet the current and future needs of industry.

#### **Criteria**

A goal of education leading to a career is to make occupations accessible to students. The elements of such an education include: understanding the origins, technology, skills and theories involved in that occupation. Part of any occupational program should include the ability for students to analyze changing conditions in their areas of employment. Finally, an understanding of how a career fits into the current economy helps students to find alternatives when their career changes over time.

### ***Philosophy of General Education***

General Education takes its character from an extensive list of disciplines whose integration generates a broad field of common knowledge that is indispensable to students. General Education concerns itself with how disciplines form and reform their basic conceptualization and how these basic conceptualizations then link with one another to create this general field of understanding. In so doing, General Education justifies its course of study by the foundation of knowledge it imparts, which becomes an essential preparation for specialization as students move into their major fields of study. This ongoing process of forming, reforming, and integrating these basic conceptualizations allows students to achieve a synthesis of skills, comprehension, and information about oral and written communication, physical and natural sciences, humanities, the arts, and the social sciences, health, and wellness, and such process is contemporary with any age.

The disciplines that introduce students to the variety of courses through which people comprehend the past, present, and future world coincide with the general education courses that teach oral and written communication, the physical, natural, and social sciences, the humanities, arts, health, and wellness. These selections of classes reflect the conviction of Long Beach City College that those who receive an Associate Degree should possess in common certain principles, concepts, and methodologies of the various disciplines defined by this philosophy. The general education experience should enable students to use this knowledge when evaluating and appreciating the physical environment, the arts, various cultures that make up the world, and the society in which they live. Most importantly, since education is a life-long process, general education should lead to better self-

understanding and the capacity to adapt, respond, and grow in a changing world.

In its general education program, Long Beach City College strives to create coherence and integration among its separate requirements. Furthermore, through this program, the college involves students in examining the values inherent in proposed solutions to the major social problems that surround the average adult living within our society. Accordingly, Long Beach City College expects that those students who finish their general education requirements should have at their command the knowledge, skills, and perspectives common to all the classes taught as representative of the disciplines named above and **should be evident in Long Beach City College's Student Learning Outcomes at the course, program, and institution levels.** This means that all general education courses should also be of an introductory or survey nature. In addition, a non-survey course may qualify as a general education course only if its student learning outcomes and content, as indicated by the course outline of record, is designed to substantially integrate the basic principles and methodologies of a discipline designated as introductory or survey.

Keeping these principles in mind, the faculty at Long Beach City College (LBCC) prepares its General Education lists by selecting courses that both prepare students for their majors and conform to a specific set of regulations that limit and shape the types of classes that can be submitted to our Curriculum Committee. Any course submitted for consideration must meet several conditions before it can receive General Education credit: first, this course must comply with the requirements set in Title 5 and the Chancellor's Office of the California Community College System; second, this course must be consistent with the mission statement listed in the college catalog, which defines the educational goals of a specific community college; third, alignment with the College's general education outcomes as these define the knowledge, skills, and values acquired by students who satisfy our general education requirements; fourth, such a course should be transferable to a four-year institution so that a student can earn an Associate Degree and prepare for the possibility of a Baccalaureate Degree without having to do extra work, even though the committee does review non-transferable courses for General Education credit; and fifth, if transferable, this course must meet the specific requirements for General Education as outlined in the executive orders and criteria set forth by the receiving four-year institutions. These requirements, as well as the definition of General Education offered above, determine what can be described as the "Philosophy of General Education" as offered by LBCC.

Accordingly, the conditions that define LBCC's philosophy include our Mission Statement as found in our College Catalog, Title 5 and the Chancellor's Office specific requirements as interpreted by the Office of Academic Services, Executive Order 1033 from the California State University (CSU) System, and the Intersegmental General Education Transfer Curriculum (IGETC) requirements, and yearly updated notes, that define the University of California (UC) and

CSU common core curriculum for General Education. These six sources have limited and shaped General Education at LBCC throughout our history, and have led us recently to develop a strategy known as the A, B, C Plan.

The A, B, C Plan accomplishes all of the tasks set by our Missions Statement, general education outcomes, Title 5, the Chancellor's Office, Executive Order 1033, and IGETC Requirements and Notes in a single stroke. The A, B, C Plan is found in the College Catalog, which sets forth how we define and distribute General Education courses to meet Associate Degree requirements while preparing students for transfer to the UC and CSU systems. The strategy behind the A, B, C Plan is to introduce students to the various disciplines identified in the definition of General Education as cited above, such as the arts, literature, the physical and natural sciences, history, the social sciences, health, and wellness, while also complying with those regulations that allow us to *certify* our students before they transfer.

The certification process lies at the heart of Plan B and C of the A, B, C Plan. Certification is defined as a process by which LBCC verifies that a student has completed all the General Education courses that are required by the CSU or UC system. The CSU certification process identifies 39 units prescribed by Executive Order 1033, which are distributed by discipline into broad areas defined as English Composition, Analytical Thinking, Communication Skills, Mathematics, Natural Science, Physical Science, Humanities, Arts, Social Science, and Lifelong Understanding and Self-Development. Following a similar category pattern, the IGETC allows LBCC to certify 34 units for the UC, but requires nine (9) extra units: three (3) of Oral Communications and six (6) of US History and Government to meet the CSU graduation requirements. When certification occurs, LBCC is in compliance with Executive Order 1033 and the list of instructions found in the IGETC Notes. In both cases, once certification has occurred, our transfer students know that their General Education requirements have been met, and that the receiving CSU or UC schools will not review these units. Hence, if we do our job well, our students will receive effective and efficient service.

Plan A is the list of requirements we offer in compliance with Title 5 and the Chancellor's Office. Plan A sets the requirements for the Associate of Arts and Associate of Science Degrees. The unit requirements for these two degrees vary because the Associate of Science Degree accompanies programs that require so many units to complete their certificates and/or core major requirements that this science degree limits the General Education requirements to the minimum prescribed by Title 5. Accordingly, the Associate of Science Degree also is the one most commonly earned by our higher unit academic and career and technical education programs. Those students who complete the Associate Degree, and who later choose to transfer have to make up the difference in units between Plan A and Plans B or C when they move to a four-year institution. Plan A, however, is



designed so that a student may select courses to meet the Associate Degree requirements while completing as many units as possible *that are also located on* the CSU and UC patterns. Hence, all three plans are designed to complement each other and minimize the total unit load of our students.

Having met the requirements as set by Title 5, the Chancellor's Office, and the receiving CSU and UC institutions, LBCC is then free to define what philosophy drives our General Education program. This philosophy and our Mission Statement shape what we, as professionals, believe define an educated person. Besides this philosophy and our Mission Statement, another major consideration that has determined courses selection for our General Education lists includes the strategy used to define our "breadth requirements." The LBCC Committee on Curriculum and Instruction has created General Education lists that offer a broad exposure to the various disciplines to allow a student to develop some understanding of the whole range of human knowledge and creativity, *while limiting course options* on each list to create a sufficiently concentrated set of classes to produce a common focus to the educational experience. This doubled-edged strategy allows for an Associate Degree to represent both a common and a broad exposure to the general college curriculum. Hence, the General Education lists developed in this fashion allow all the disciplines to be represented, provide a variety of choices to appeal to individual student tastes, and yet restrict the selection sufficiently so that when students graduate from LBCC, they have had a common, high quality educational experience.

### ***Philosophy of General Education for Transfer***

Plan B will prepare students for transfer to the California State University system. Plan C will prepare students for transfer to either the University of California or California State University systems. Each plan is designed to achieve transfer in the most efficient way. At the request of the student, each plan includes the certification process that secures the total number of units that meet all lower division General Education requirements for both the UC and CSU systems. Certification also ensures these General Education course requirements so that no four-year institution in the UC or CSU system may challenge these units.

The design of both Plan B and C matches the design of Plan A so that a student may transfer, earn an Associate Degree, and complete a career and technical education certificate all at the same time. To benefit from Plan B and C, a student should regularly consult with a counselor to select courses from a valid CSU or IGETC certification list that is annually updated. Thus, if a student regularly consults a counselor, develops an Education Plan, and carefully selects courses, he or she may accomplish several degree and career goals at once. In this fashion, the faculty of LBCC seeks to provide effective transfer under the Master Plan of 1960 and offer access to the job market in the most efficient manner possible.

### ***Career and Technical Education General Education Strategy***

General Education that accommodates transfer is as much a part of career and technical education as the academic programs. Yet, the General Education requirements for career and technical education are different because of the way these courses fit into a career and technical education program. Career and technical education students need a general education program that prepares them for the workforce and/or transfer to a four-year institution. Such preparation has to take into consideration three basic facts: career and technical education programs are high-unit majors; the academic nature of general education needs to fit into a training program that prepares a student for work; and the quality and intensity of such college courses should help to build the scope of knowledge and self-confidence of a career and technical education student.

Since the certificates being offered assures an employer that a student is prepared to take up full-time employment in a skilled occupation, the average unit load for a career and technical education student usually exceeds 18 college credits. Also, since such education is taken at a two-year institution, the expectation is that a student will finish in a reasonable length of time. This expectation suggests that units taken above the certificate requirements should take into consideration the total time needed to complete both an Associate Degree and the certificate.

Many career and technical education students follow an educational career that reveals an awareness of the need for academic as well as professional training. The student begins class seeking a certificate, then shifts to seeking an Associate Degree, and finally discovers that they want to transfer to a four-year institution after he/she has begun a new job based on his/her career and technical education. Thus, the philosophy that shapes General Education at LBCC must have sufficient flexibility to meet all three factors.

#### **Criteria**

Since it is expected to produce the skills, methods or knowledge common to all, a course which satisfies the general education requirement should be of an introductory or survey nature. In addition, a non-survey course may qualify as general education if its course design incorporates a substantial integration of the basic principles and methodologies of the discipline in relation to the specific subject matter of the course.

#### ***Plan A:***

##### ***Associate Degree (Degree and/or Career Option)***

1. Students may use this plan to simply complete an Associate Degree.
2. Those students interested in preparing for a career upon graduation may use this plan by combining the Associate Degree with a Certificate Program.
3. This plan may also be used to combine a career, degree and transfer goals.
4. Students must maintain continuous enrollment and complete a field of concentration.

5. If you are considering transferring to CSU or UC and need additional units to complete the 18 unit general education requirement for Plan A, it is recommended that you select needed units from the CSU General Ed/Breadth or the Intersegmental General Education Transfer Curriculum (IGETC).
6. For the best program see a counselor.

***Plan B:***

***General Education Certification Pattern for CSU Transfer and the Associate Degree***

1. Students may use this program to combine the CSU general education requirements with an Associate Degree.
2. Those students interested only in transfer to a CSU can achieve that goal by following the certification pattern listed here.
3. To complete an Associate Degree with this program, a student must complete a field of concentration and the Associate Degree general education and proficiency requirements.
4. Students must maintain continuous attendance.
5. See a counselor to select courses which meet both CSU and Associate Degree requirements at the same time.

***Plan C:***

***Intersegmental General Education Transfer Curriculum (IGETC) for the UC/CSU Systems and the Associate Degree***

The Intersegmental Committee of the Academic Senates for the combined university and college systems in the state of California approved the Intersegmental General Education Transfer Curriculum (IGETC) which was implemented Summer 1991.

1. The IGETC is a series of courses that community college students can use to satisfy lower division general education requirements at any CSU or UC campus.
2. The IGETC provides an option to the California State University General Education requirements and replaces the University of California Transfer Core Curriculum.
3. Completion of the IGETC is not a requirement for transfer to a CSU or UC, nor is it the only way to fulfill the lower-division general education requirements of the CSU or UC prior to transfer. Students may find it advantageous to take courses at the community college fulfilling CSU's General Education requirements or those of a particular UC campus.
4. To complete an Associate Degree with this program, a student must complete a field of concentration and the Associate Degree general education and proficiency requirements.
5. Students must maintain continuous attendance.

***Plan A***

***Additional Graduation Requirements***

1. **Units** - The Associate Degree requires a minimum of 60 units passed, including the field of concentration, required general education courses and free electives (if applicable) as defined in the college catalog. The curriculum guide for the field of concentration and the LBCC graduation requirements identify the exact number of units.
2. **Scholarship** - An overall grade point average (G.P.A.) of 2.0 ("C" average) based on all accredited college work that is applied to the degree, no matter where completed.
3. **Residence** - Either a.) a minimum of 20 units within the last 30 units of work applied to the degree must be completed at LBCC; or b.) at least 50 percent of the units required for the degree must be completed at LBCC.
4. **Field of Concentration** - Completion of 50 percent or more, in residence (which may include credit earned by exam, where applicable), of the requirements for the chosen field of concentration as defined in the appropriate curriculum guide. The field of concentration, the general education and the proficiency requirements must be those in effect for the same year. Per Title 5, section 55063 (a) (2) - Effective Fall 2009 – Students must complete each course counted toward the major or area of emphasis with a grade of "C" or better or "P" if the course is taken on a "Pass/No Pass" basis. Students who enrolled prior to Fall 2009 and who maintain continuous enrollment are not subject to the new minimum grade standards, but they must meet any minimum grade standards already established by the program as published on the appropriate curriculum guide.  
**Note:** There is no "double-counting"—that is, courses required for the field of concentration may not also fulfill general education requirements, unless specifically noted.
5. **General Education and Proficiency requirements** - Refer to Plan A for the requirements in general education and proficiency in reading, writing, mathematics and information competency. The field of concentration, the general education and the proficiency requirements must be those in effect for the same year. A student may use a course to fulfill a general education requirement in effect at the time the course was completed, even though the course may have been subsequently removed from the list of approved general education courses.
6. **Matriculation** - Matriculation materials must be submitted to the Admissions and Records Office prior to the application for graduation.

**Changes to the Associate Degree and Certificate requirements may be made after the printing of the catalog.** Students should consult a counselor or the appropriate Associate Degree curriculum guide to determine the current status of degree requirements. Students who encounter problems fulfilling both the general education and the field of concentration requirements in effect for any one year may appeal

immediately to the Graduation Appeals Committee. Completing the degree requirements is the responsibility of the student.

These requirements become effective for students entering the 1992 Summer session. Students who entered Long Beach City College prior to the 1992 Summer session and who have been continuously enrolled may use the graduation requirements in effect at any time between their initial enrollment at Long Beach City College and the present.

“Continuous Enrollment” is defined as enrollment in, and receiving a grade for, at least one class per academic year at either Long Beach City College or any other accredited higher education institution, after having initially enrolled at Long Beach City College. Acceptable grades that will satisfy continuous enrollment are A-F, P and NP. Students enrolled in non-credit courses may qualify for continuous enrollment if the instructor has noted their satisfactory participation in the class rollbook. This policy is effective for students who established continuous enrollment at the start of the Fall 1983 semester or later.

Coursework transferred from other institutions will be evaluated for satisfaction of all associate degree requirements, including the proficiency requirements, and for certificates of completion.

### **Plan B**

#### **Additional Requirement Information for California State University**

1. To obtain a Bachelor’s Degree from any of the California State University campuses, students are required to complete a minimum of 48 semester units of general education courses in the following areas: Area A (9 units), Area B (12 units), Area C (12 units), Area D (12 units), Area E (3 units).

Up to 39 lower-division units may be completed at and certified [see below] by California community colleges. Long Beach City College recommends the **pattern of 39 lower-division units** as listed in Plan B. After the student has transferred, the CSU campus will then specify a **minimum of nine more upper-division units** to be taken primarily in Areas B, C and D.

**Certification** means that LBCC will officially designate on transcripts sent to any CSU those general education courses, which have been completed, and then the CSU campus will accept those courses toward fulfillment of the breadth requirements. It is very important for students to consult with their counselor regarding the selection of courses from a valid list for certificate purposes.

2. No course may be used to fulfill more than one general education requirement. In most cases you may not use courses from your major department to also fulfill general education requirements (“double-counting”) unless the same course is required both in your major and in general education and no alternative is available.

3. All courses numbered 1-99 in the catalog will transfer to the CSU at least as elective credit.

4. Completing the general education requirements and the major requirements is the responsibility of the student.

#### **General Education-Major Requirements**

The Baccalaureate Degree has **two** major components: **general education** and a **major field of study**. The **major** allows one to concentrate in depth in a field of study. **General Education**, which should be done primarily at the lower division level (first two years of college), is designed to provide a common educational overview of the great accomplishments of humanity.

While attending Long Beach City College, students planning to transfer to the California State University system should follow the recommended pattern of general education-breadth requirements listed. (Note: Courses that fulfill these CSU requirements do not necessarily meet the requirements for the University of California system).

In addition, students should take the specific lower division courses required for their chosen major; these are listed on transfer curriculum guides available in the Counseling Centers. Careful educational planning will enable students to prepare for transfer and also complete the graduation requirements for an Associate Degree. Consult a counselor for assistance in correlating these requirements.

#### **Admission Requirements**

Students may apply to any of the 22 campuses of the California State Universities: Bakersfield, Channel Islands, Chico, Dominguez Hills, Fresno, Fullerton, Hayward, Humboldt, Long Beach, Los Angeles, Monterey Bay, Northridge, Pomona, Sacramento, San Bernardino, San Diego, San Francisco, San Jose, San Luis Obispo, San Marcos, Sonoma and Stanislaus.

**Lower Division Transfers** - *Undergraduate transfer applicants with fewer than 56 transferable semester units of study* may qualify for regular admission if they are eligible as freshmen and have been in continuous attendance since high school graduation; or were eligible as freshmen except for the subject requirements and have completed appropriate college courses in the missing subjects (all transfers must have a 2.0 minimum grade point average and be in good standing at last college attended). Applicants not eligible as freshmen cannot be admitted as lower division transfers. They must establish eligibility by completing the requirements for upper division transfers.

Undergraduate transfer applicants with fewer than 56 semester units of transferable college credit, who have not completed the subject requirements, may do so by:

1. Completing appropriate courses with a “C” or better in adult school or high school summer sessions; **OR**
2. Completing appropriate courses in college with a “C” or better. One course of three semester (or four quarter) units will be considered equivalent to one year of high school study; **OR**

3. Earning appropriate scores on specified examinations.

**Upper Division Transfers** - Upper division transfers may qualify for admission if they have completed *60 transferable semester (90 quarter) units* and have completed appropriate college courses to make up any missing college preparatory subject requirements. (It is also possible for an applicant eligible as a freshman to be admitted as an upper division transfer.)

The missing college preparatory subject requirements may be made up in the following ways:

1. Complete the missing subjects in ways specified for lower division applicants; **OR**
2. a) High school graduates prior to 1988: Complete with grades of "C" or better the CSU general education requirements in communication in the English language (9 units in Areas A1, A2, A3) and math (from Area B4); **OR**  
b) 1988 and later high school graduates: Complete with grades of "C" or better a minimum of 30 semester (45 quarter) units selected from courses in English, arts and humanities, social science, science and math of at least equivalent level to courses that meet general education or transfer curriculum requirements. Each student must complete all of CSU general education requirements in communication in the English language (9 units in Areas A1, A2, A3) and the general education requirement in math (from Area B4) as part of the 30-semester unit requirement.

**Please consult with the Long Beach City College Counseling Department and Transfer Center regarding appropriate courses and tests to satisfy the subject requirements, as well as continuous attendance issues and criteria used to determine eligibility as first-time freshman.**

Courses numbered 1-99 in the Long Beach City College catalog are transferable as general education and/or elective credit to the CSU. Students with *60 transferable units* will be admitted as juniors. A *maximum of 70 semester transferable units* earned in a California community college will be accepted by a CSU campus towards the baccalaureate degree.

Some programs are impacted at various CSU campuses when the number of applicants received in the first month of the admission filing period is greater than the number of spaces available. For these programs, students are urged to consult with a Long Beach City College counselor to be aware of the filing deadlines and any supplemental admissions criteria.

### **Plan C**

#### **Additional Information for University of California**

A student who plans to transfer to one of the nine campuses of the University of California system (Berkeley, Davis, Irvine, Los Angeles, Riverside, San Diego, San Francisco, Santa Barbara and Santa Cruz) is well advised to concentrate on university and college requirements and on available prerequisite and introductory courses required by the major. The

specific UC requirement for American history and institutions is met by those students who have earned a grade of "B" or better in their high school history and government classes.

Courses acceptable at the University of California are identified as such at the end of each catalog description (see courses of instruction). A student may transfer up to 70 semester units from Long Beach City College.

#### **Admission Requirements**

There are basically three options by which a transfer student from Long Beach City College may meet University of California admission requirements. In all cases, transfer students who are California residents must have at least a "C" average (2.0) in all transferable coursework to be admitted to the University. Other requirements depend on whether a student was eligible for admission to the university when he/she graduated from high school. (Note: There are changes in the "A-G" subject requirements for students who graduated from high school June 1986 and later.) The options are as follows:

**Option 1:** If a student was eligible for admission to the university when he/she graduated from high school, that student may transfer at any time provided that a "C" average in transferable community college courses has been maintained.

**Option 2:** If a student was not eligible for admission after high school because subject requirements were not met, the student may take college courses in the subjects which were missed and transfer upon their completion. Students need a grade of "C" or better in each of these required courses and an overall "C" average in all transferable college course work. If less than 12 semester or quarter units of transferable college coursework are completed, the examination requirements for freshman applicants must also be satisfied.

**Option 3:** If a student was not eligible for admission after high school graduation because they did not achieve the required score on the Eligibility Index and may also have lacked the required "A-G" subjects, the student must:

- (1) Complete 60 semester units of transferable college credit with a grade point average of at least 2.4 and satisfy either (2) or (3) below.
- (2) Complete appropriate college courses with a "C" grade or better in the "A-G" subjects that were lacking. (The university will waive up to two units, i.e., two academic years, of the required high school coursework except in math and English.)
- (3) Complete with grades of "C" or better the following college courses:
  - (a) English: one transferable college course in English.
  - (b) Math: math courses equivalent to three years of high school math (i.e., elementary algebra, intermediate algebra and geometry); or one course in math or statistics for which intermediate algebra is the prerequisite (for applicants who graduated prior to June 1986,

the math course must have elementary algebra as a prerequisite).

(c) U.S. history, lab science, foreign language: one transferable college course selected from these subjects. Students are advised to see a counselor to ensure they are following the correct academic program.

### Private Colleges and Universities

#### Transfer Information

Private colleges and universities, often called independent institutions, offer a diversity of educational programs and opportunity. There are great differences in size, educational purpose and emphasis among the more than 50 independent colleges and universities in the state of California.

Long Beach City College has developed curriculum guides for many popular majors at nearby independent colleges and universities. The Library, Student Success & Transfer Services, and Career & Job Services also have complete sets of college catalogs for inspection and reference. It is advisable for students to write directly to the independent college or university for a catalog and information concerning their particular interest or major.

Transfer students who plan to attend a private college or university are encouraged to consult with a college counselor to plan their academic program.

### Long Beach City College Certificate and Degree Programs

Long Beach City College provides students with an instructional program in higher education that may culminate in a Certificate of Accomplishment, a Certificate of Achievement, an Associate in Arts or an Associate in Science Degree or appropriate preparation for transfer to a four-year college or university.

Certificate (Achievement or Accomplishment) and/or Associate Degrees are offered in the fields of concentration on the following lists(s). The requirements for each field of concentration are listed on the curriculum guides available in the Counseling Center at the Liberal Arts and the Pacific Coast campuses as well as the LBCC Catalog.

In addition, a Curriculum Guide may be developed to meet the educational need of individual students that would include two or more appropriately related subject areas. Such an alternate plan requires the approval of the appropriate instructional dean and the Office of School and College Relations.

The notations used in the following table are:

T= **Transfer Preparation** – College courses in general education and the major taken during the freshman and sophomore years to prepare for transfer to a university (i.e. CSU-Long Beach, Chapman, UC-Irvine, USC, etc.)

A= **Associate Degree** – Two-year college degree awarded by Long Beach City College which includes general education courses and a major.

ACH= **Certificate of Achievement** – One to two year programs in occupational/technical areas at Long Beach City College which provide training in job skills and employment opportunities.

## SCHOOL OF BUSINESS & SOCIAL SCIENCE

### BUSINESS

#### Business Administration

T	A	ACH	
X	X	X	Accounting
	X	X	Accounting Clerk
X	X	X	Business Administration (Transfer)
X	X	X	Business, General
X	X	X	Business, Management
X	X	X	International Business
X	X	X	Marketing
X	X	X	Real Estate

#### Computer & Business Info Systems

X	X	X	Computer Applications Specialist
X	X	X	Computer and (Bus. Info Systems and Computer Science)

#### Computer & Office Technologies

	X	X	Administrative Assistant
X	X	X	Computer Applications Specialist
	X	X	Customer Service Representative
	X	X	Data Entry
	X	X	Legal Secretary
	X	X	Office Assistant
	X	X	Word Processing

#### Tourism/Baking/Culinary Arts

	X	X	Baking
	X	X	Culinary Arts

### SOCIAL SCIENCE

#### Public Services

X	X	X	Administration of Justice
X	X	X	Fire Science
X	X	X	Human Services
	X	X	Human Services–Alcohol and Drug Studies

#### Social Science

X	X		Social Sciences
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## SCHOOL OF CREATIVE ARTS & APPLIED SCIENCE

### CREATIVE ARTS

#### Art

T	A	ACH	
X	X		Art
X	X	X	Photography

#### Fine Arts

	X		Fine Arts
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#### Music/Radio/Television

X	X		Music
X	X	X	Commercial Music: Composer/Arranger
X	X	X	Commercial Music: Professional Instrumentalist
X	X	X	Commercial Music: Professional Technology

**Music/Radio/Television**

X	X	X	Commercial Music: Professional Vocalist
X	X	X	Commercial Music: Record Producer
X	X	X	Commercial Music: Recording Engineer
X	X	X	Commercial Music: Songwriter
X	X	X	Radio/Television: Broadcast News
		X	Radio/Television: Multimedia Production
X	X	X	Radio/Television: Performance
X	X	X	Radio/Television: Producer

**Speech Communication**

X	X		Speech Communication
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**Theatre Arts**

X	X		Dance
X	X		Film
X	X		Theatre: General and Acting Academy

**APPLIED SCIENCES**

**Child/Adult Development**

X	X	X	Child Development
	X	X	Child Development: Early Childhood Education
	X	X	Child Development: School Age Child Care
	X	X	Child Development: Special Education Assistant

**Family & Consumer Studies**

	X	X	Dietetics Program: Dietetic Service Supervisor & Nutrition Assistant
X	X	X	Family and Consumer Studies
X	X	X	Fashion Design
	X	X	Fashion Design – Asst Designer
		X	Fashion Design – Patternmaker
		X	Fashion Design – Samplemaker
X	X	X	Fashion Merchandising
	X	X	Floral Design
X	X	X	Interior Design
X	X	X	Interior Design: Technical Skills

**SCHOOL OF HEALTH & SCIENCE**

**MATHEMATICS & SCIENCE**

**Life Science**

<b>T</b>	<b>A</b>	<b>ACH</b>	
X	X		Biological Sciences

**Mathematics & Engineering**

X	X		Engineering
X	X		Mathematics

**Physical Science**

X	X		Physical Sciences
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**NURSING & ALLIED HEALTH**

**Allied Health**

	X	X	Medical Assisting: Clinical and/or Administrative Certificate
	X	X	Diagnostics Medical Imaging (Rad Tech)

**Nursing**

X	X	X	Associate Degree (RN Program)
X	X	X	LVN to RN Career Ladder Program
	X	X	Vocational/Practical

**SCHOOL OF LANGUAGE ARTS**

**English**

	X	X	Digital Design & Publication
X	X		English: Language & Literature, Creative Writing
X	X	X	Journalism: Newspaper/Magazine, Public Relations, Publication Spec
		X	Photojournalism

**Foreign Language**

X	X	X	Foreign Languages
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**Library**

	X	X	Library Technician
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**SCHOOL OF PHYSICAL EDUCATION & ATHLETICS**

X	X		Physical Education/Recreation
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**SCHOOL OF TRADES & INDUSTRIAL TECHNOLOGIES**

**Aeronautics**

X	X		Aeronautics Program-Aviation Maintenance
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**AutoBody**

	X	X	Auto Body Repair
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**Auto Mechanics/Diesel**

	X	X	Advanced Transportation Technology: Alternate Fuels
	X	X	Advanced Transportation Technology: Electric Vehicles
	X	X	Auto Mechanics
	X	X	Diesel Mechanics

**Construction & Related Trades**

<b>T</b>	<b>A</b>	<b>ACH</b>	
	X	X	Air Conditioning/Refrigeration-Theory and Practical Experience
	X	X	Air Conditioning/Refrigeration-Theory Only
	X	X	Carpentry Tech/Trade Home Remodeling & Repair
	X	X	Horticulture
	X	X	Mechanical Maintenance Tech

**Drafting**

X	X	X	Architectural Design (Transfer)
	X	X	Drafting – Architectural
	X	X	Drafting – Mechanical Design (Occupational)
	X	X	Tool Designer

**Electricity**

	X	X	Electrical Technology
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**Manufacturing Technology**

	X	X	Sheet Metal
	X	X	Welding Technology (Prep)

## CERTIFICATE OF ACCOMPLISHMENT

**Long Beach City College offers a variety of Certificates of Accomplishment. A Certificate of Accomplishment certifies a competency in a given area and requires 18 units or less. Listed below is a list of Certificate of Accomplishment as well as a list of curriculum guides that provide detailed information required to obtain a Certificate of Accomplishment, etc.).**

### CERTIFICATE OF ACCOMPLISHMENT

3D Studio MAX – Animation Technician  
 3D Studio MAX – Modeling Technician  
 3D Studio MAX – Texture and Lighting Technician  
 3D Studio MAX - Technical Design Animator  
 Activity/Recreation Leadership Training  
 Advanced Transportation Technology – Light-Medium Duty Alternate Fuels  
 Advanced Transportation Technology – Electric Vehicle  
 Advanced Transportation Technology – Heavy Duty Alternate Fuels  
 Advanced Arc Welder  
 Arc Welding  
 Alcohol & Chemical Dependency  
 Application Developer  
 Arc Welding and Fabrication  
 AutoCAD I, Fundamentals  
 AutoCAD II, Advanced Concepts  
 AutoCAD III, Visualization, Rendering, Animation  
 Baking and Pastry 1  
 Baking and Pastry 2  
 Basic Business Communication  
 Basic Computing and Internet Literacy  
  
 Basic Customer Service  
 Basic Data Entry  
 Basic Legal Office Procedures  
 Basic Office Computer Skills  
 Basic Office Skills  
 Basic Word Processing  
 CAD Professional  
 Carpenter Trainee  
 Child Development Permit Specialization-Child Health & Safety  
 Child Development Permit Specialization-Children with Exceptional Needs  
 Child Development Permit Specialization- Early Literacy  
 Child Development Permit Specialization-Family Child Care  
 Child Development Permit Specialization-Infant/Toddler  
 Child Development Permit Specialization-School Age  
 Child Development – Early Childhood Education-Associate Teacher  
 Child Development – Early Childhood Education-Assistant Teacher  
 Computer Tech A+ Preparation  
 Commercial Cake Decorating  
 Co-Occurring Disorder-Level One  
 Criminal Forensics  
 Emergency Medical Technician  
 Food Preparation 1  
 Food Preparation 2  
 Food Preparation 3  
 Food Service Sanitation  
 Gas Tungsten Arc Welding (GTAW)

### CURRICULUM GUIDES

Drafting, Mechanical Design  
 Drafting, Mechanical Design  
 Drafting, Mechanical Design  
 Drafting, Mechanical Design  
 Human Services  
 Advanced Transportation Technology  
  
 Advanced Transportation Technology – Electric Vehicle  
 Advanced Transportation Technology  
  
 Welding Technology ( Prep Program)  
 Welding Technology ( Prep Program)  
 Human Services – Alcohol & Drug Studies  
 Computer Business Information Systems/Computer Science  
 Welding Technology ( Prep Program)  
 Drafting, Mechanical Design  
 Drafting, Mechanical Design  
 Drafting, Mechanical Design  
 Baking  
 Baking  
 Administrative Assistant, Word Processing  
 Administrative Assistant, Computer Applications Specialist, Office Assistant  
 Customer Service Representative  
 Data Entry, Customer Service Representative  
 Legal Secretary  
 Word Processing  
 Administrative Assistant, Legal Secretary, Office Assistant  
 Office Assistant, Word Processing  
 Drafting, Mechanical Design  
 Carpentry  
 Child Development: Early Childhood Education  
  
 Child Development: Early Childhood Education  
  
 Child Development: Early Childhood Education  
 Child Development: Early Childhood Education  
  
 Child Development: Early Childhood Education  
 Child Development: Early Childhood Education  
 Child Development: Early Childhood Education  
  
 Child Development: Early Childhood Education  
  
 Computer Business Information Systems/Computer Science  
 Baking  
 Human Services: Alcohol & Drug Studies  
 Administration of Justice  
 Medical Assistant  
 Baking, Culinary Arts  
 Culinary Arts  
 Culinary Arts  
 Culinary Arts  
 Welding Technology (Prep Program)

**CERTIFICATE OF ACCOMPLISHMENT**

Health Unit Coordinator  
Home Remodeling & Repair Technician  
Introduction to Baking  
Introduction to Chocolate  
Java Web Programmer  
Magnetic Resonance Imaging Technologist  
Medical Insurance Billing  
Microsoft Access  
  
Microsoft Excel  
  
Microsoft Office  
  
Microsoft Windows System Administration  
Microsoft Word  
  
Network Cabling Specialist  
Network Installation  
Network Installation and Design  
Oxygen Acetylene Welding/Cutting  
Phlebotomy  
ProTools Assistant  
Quick Service Tech – Brake Inspection  
Quick Service Tech – Lubrication Service  
Quick Service Tech – Tire Service  
Public Service-Transportation Security Administration Associate  
Radiologic Technology Fluoroscopy Permit  
Real Estate Appraisal  
Real Estate Lending  
Real Estate Property Management  
Real Estate Salesperson  
Shielded Metal Arc Welding (ARC)  
Solar Photovoltaics Installation and Design  
Structural Certification  
Studio Assistant  
Traffic Signals Systems 1  
Web Construction  
Windows Network Administrator

**CURRICULUM GUIDES**

Medical Assistant  
Carpentry  
Baking, Culinary Arts  
Culinary Arts  
Computer Business Information Systems/Computer Science  
Diagnostic Medical Imaging  
Medical Assistant  
Administrative Assistant, Computer Application Specialist, Data Entry  
Administrative Assistant, Computer Application Specialist, Customer Service Representative, Office Assistant, Word Processing  
Administrative Assistant, Computer Application Specialist, Customer Service Representative, Office Assistant  
Computer Business Information Systems/Computer Science  
Administrative Assistant, Computer Application Specialist, Customer Service Representative, Legal Secretary, Office Assistant, Word Processing  
Electrical Technology  
Electrical Technology  
Electrical Technology  
Welding Technology (Prep Program)  
Medical Assistant  
Recording Engineer, Record Producer  
Auto Mechanics  
Auto Mechanics  
Auto Mechanics  
Administration of Justice  
  
Diagnostic Medical Imaging  
Real Estate  
Real Estate  
Real Estate  
Real Estate  
Welding Technology (Prep Program)  
Electrical Technology  
Welding Technology (Prep Program)  
Recording Engineer, Record Producer  
Electrical Technology  
Computer Business Information Systems/Computer Science  
Computer Business Information Systems/Computer Science



## **CERTIFICATE OF COMPLETION**

### **NONCREDIT CERTIFICATE OF COMPLETION**

The NONCREDIT CERTIFICATE OF COMPLETION is based on hours of instruction rather than on credit. The Noncredit Certificate of Completion was created in response to Senate Bill 361 (SB 361), which encourages California Community Colleges to offer certificates leading to improved employability or job opportunities.

Courses leading to a Noncredit Certificate of Completion are in the area of Career Development or College Preparation and must be part of one of the following: (1) a short-term vocational program with high employment potential; (2) a sequence of courses in (A) elementary or secondary basic skills including sequences of courses leading to a high school diploma; (B) workforce preparation in the basic skills of speaking, listening, reading, writing, mathematics, decision-making, and problem-solving skills that are necessary to participate in job-specific technical training; or (C) English as a Second Language (ESL) or Vocational English as a Second Language (VESL).

## **CERTIFICATE OF COMPLETION**

### **NONCREDIT CERTIFICATE OF COMPETION**

Basic Skills for the Workplace (BAE)  
English for Every Day (ESL)  
Reading Skills for ESL Students (ESL)

### **ADVISORY GUIDE**

College and Workforce Preparation  
College and Workforce Preparation  
College and Workforce Preparation

## Program Mission Statement and SLOs

The Outcomes Assessment Process enables each program to plan strategies to serve its students. A program's **mission statement** provides a general description of the focus, values, and purpose of an instructional program and is developed through the consideration of the program's **student learning outcomes (SLOs)**. A program's SLOs are a means of assessing intended student learning and tend to emphasize integrating skills into an interrelated set. They often put more emphasis on real world applications that provide a bridge to the student's next experience on the job or in upper-division study.

An important part of outcomes assessment is sharing the program mission and learning outcomes with students. This helps students have a better understanding of the direction of their education and be more engaged in the learning process. A program's mission statement and SLOs can be found on curriculum guides <http://osca.lbcc.edu/curriculumguides.cfm> and in the web catalog <http://www.lbcc.edu/cat/index.html>.

The following Certificate and Associate Degree programs are offered by Long Beach City College. Please note that the information presented in this section for each of the LBCC Curriculum Guides represents only a portion of the complete LBCC Curriculum Guide available on the LBCC website due to space limitations. The information selected for the catalog, is comprised of the core curriculum most useful when registering for courses in the major. All other pertinent information regarding graduation proficiencies and general education is not presented in this section of all catalog but is available on the curriculum guides posted on the LBCC website. **The information contained herein is subject to change without notice and/or may include clerical errors due to printing deadlines or format restrictions.** If you become aware of inconsistencies between the information provided in this catalog and the information provided in other sources, please contact the appropriate department office for the specific majors. Your observations will help us provide the most current and accurate information possible.

A complete list of Curriculum guides is available at the following website: <http://students.lbcc.edu> Click on Curriculum Guides heading located on the left side of the webpage.

### LEGEND

† This course has a prerequisite; prerequisite courses must be completed with at least a "C" or "P" grade (see catalog, schedule of classes or the online Credit Course Outline).

▪ Identifies the courses need for an Associate Degree in that area.

\* This course is an exception to the "double counting" rule; it may be double counted.

Φ Cannot be used as an elective if counted under required units.

▲ Any of these courses may be taken as a 300 band course.

**Note: The footnotes for all other symbols can be found at the end of each guide.**

## ACCOUNTING

### Certificate of Achievement and/or Associate in Arts

**Mission Statement:** The mission of the Accounting Program is to help students acquire the necessary knowledge and skills to begin, or enhance, a career in the area of accounting, or for transfer to an upper-division accounting program at a 4-year college or university.

#### Outcomes:

- Comprehend the primary elements of the language and theories of accounting, while recognizing the importance of ethics, social responsibility, and diversity as legitimate accounting objectives.
- Use creative and critical-thinking strategies in the solution of complex business situations through the application of learned accounting concepts.
- Develop communication and teamwork skills for the purpose of ensuring future personal and professional success.

Students prepare for an entry-level position in the accounting office. Student is provided partial lower division preparation for the baccalaureate degree in Business Administration. This Certificate of Achievement will prepare students for a variety of entry-level accounting positions.

This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4328 or go to the department website @<http://business.lbcc.edu>.

REQUIRED COURSES	UNITS
ACCTG 1A Principles of Accounting	4
†ACCTG 1B Principles of Accounting	4
ACCTG 205 Fundamentals of Tax	3
†ACCTG 228 Computerized Gen Ledger Acct Systems	2
†ACCTG 229 Spreadsheet Accounting	3
ACCTG 230 Quickbooks Accounting	1
CAOTC 35 Microsoft Office- Specialist	3
CAOTO 15 Business Communications	3
GBUS 5 Introduction to Business	3
LAW 18A Business Law	3
<b>TOTAL UNITS</b>	<b>29</b>
<b>RECOMMENDED but not required courses:</b>	
ACCTG 200A Intro to Accounting	3
ACCTG 400 Personal Financial Management	3
CAOTT 233 Computer Keyboarding	1
CBIS 6A Intro to IT Concepts & Applications	4
IBUS 40 International Banking and Finance	3
LAW 18B Business Law	3

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

## ACCOUNTING CLERK

### Certificate of Achievement and/or Associate in Arts

**Mission Statement:** The mission of the Accounting Clerk Program is to help students acquire the necessary knowledge and skills to begin, or enhance, a career as an accounting clerk or other administrative positions within a financial department.

#### Outcomes:

- Comprehend the primary elements of the language and theories of accounting, while recognizing the importance of ethics, social responsibility, and diversity as legitimate accounting objectives.
- Use creative and critical-thinking strategies in the solution of complex business situations through the application of learned accounting concepts.
- Develop communication and teamwork skills for the purpose of ensuring future personal and professional success.

Students prepare for an entry-level position in the accounting office. Student is provided partial lower division preparation for the baccalaureate degree in Business Administration. This Certificate of Achievement will prepare students for a variety of entry-level accounting positions.

This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4737 or go to the department website @<http://business.lbcc.edu>.

REQUIRED COURSES	UNITS
ACCTG 200A Introduction to Accounting	3
†ACCTG 228 Computerized Gen Ledger Acct Systems	2
ACCTG 230 Quickbooks Accounting	1
CAOTC 35 Microsoft Office- Specialist	3
CAOTO 15 Business Communications	3
GBUS 5 Introduction to Business	3
GBUS 251 Business Mathematics	3
<b>TOTAL UNITS</b>	<b>18</b>

#### RECOMMENDED but not required courses:

ACCTG 1A Principles of Accounting	4
ACCTG 205 Fundamentals of Tax	3
†ACCTG 229 Spreadsheet Accounting	3
ACCTG 400 Personal Financial Management	3
LAW 18A Business Law	3

## ADMINISTRATION OF JUSTICE

### Certificate of Achievement and/or Associate in Arts and/ or Certificate of Accomplishment

**Mission Statement:** The Administration of Justice program at Long Beach City College is a comprehensive offering of courses created and designed for the purpose of educating and training diverse groups of students who aspire for careers in the Criminal Justice System. The program provides both certificates of completion and degrees that reflect our student's level of educational preparedness for entry level opportunities in Law Enforcement, Corrections, and the Courts. Students are expected to successfully develop college level skills and knowledge in furtherance of transferring to other four year institutions of higher learning and successful careers in Criminal Justice.

#### Outcomes:

- Explore the history, development, structure and functions of the American criminal justice system.
- Apply criminological/criminal justice theories, principles, and concepts to address real-life situations in the field.
- Recognize the importance and practice of legal and ethical behavior in a professional criminal justice work setting.
- Analyze, interpret, and evaluate criminological/criminal justice theories, policies, practices and procedures to develop strategies to control and prevent crime.

Students are prepared for entry-level employment in the criminal justice system. Technical education courses prepare students in the concepts and methodologies of the disciplines. This program also provides partial lower division preparation for the baccalaureate degree in this field. This Certificate of Achievement will prepare students for an entry-level position in a variety of entry level employment opportunities within the criminal justice system such as Law Enforcement, Corrections, and the Courts. This Associate Degree will prepare students for career advancements in Law Enforcement, Corrections, and the Courts. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4399.

REQUIRED CORE COURSES	UNITS
ADJUS 2 Intro. to Administration of Justice	3
ADJUS 3 Intro. to Criminal Procedures	3
ADJUS 4 Criminal Law	3
ADJUS 5 Community and Human Relations	3
ADJUS 6 Intro. to Evidence	3
ADJUS 8 Introduction to Investigation	3
<b>Subtotal Units</b>	<b>18</b>

#### IN ADDITION, select SIX (6) units from the following:

ADJUS 10 Writing for Criminal Justice	3
ADJUS 12 Crime and Delinquency	3
ADJUS 14 Juvenile Law and Procedure	3
ADJUS 16 Vice, Narcotics and Organized Crime	3
ADJUS 17 Computer Use in Criminal Justice	3
ADJUS 18 Police Field Operations	3
ADJUS 19 Fingerprint Classification & Identification	3
ADJUS 20 Introduction to Corrections	3
ADJUS 40 Street Gangs and Law Enforcement	3
ADJUS 45 Drug Abuse and Law Enforcement	3
ADJUS 61AD Defensive Tactics	1
ADJUS 62AB Firearms	1
ADJUS 200 Constitutional Law for Criminal Law	3
ADJUS 253 Understanding Domestic Violence	3
ADJUS 255 Introduction to Forensics	3
ADJUS 269 Pre-Employ Prep for Law Enforcement	3
ADJUS 271AD or 272AD or 273AD – Work Experience	
- Adm. of Justice	2:2 or 3:3 or 4:4
PUBAD 1 Intro. to Public Administration	3
PUBAD 4 Fundamentals of Supervision	3
<b>Subtotal units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>24</b>

**CERTIFICATE OF ACHIEVEMENT**

<b>REQUIRED CORE COURSES</b>	<b>UNITS</b>
ADJUS 2 Intro. Administration of Justice	3
ADJUS 3 Intro. to Criminal Procedures	3
ADJUS 4 Criminal Law	3
ADJUS 5 Community and Human Relations	3
ADJUS 6 Introduction to Evidence	3
<b>Subtotal units</b>	<b>15</b>

**IN ADDITION, Complete NINE (9) units from the following courses:**

†ENGL 1 Reading & Composition	4
†ENGL 105 Fundamentals of Writing	4
POLSC 1 Intro. to Government	3
PSYCH 1 Intro. to Psychology	3
SOCIO 1 Intro. to Sociology	3
SP 10 Elements of Public Speaking	3
SP 30 Elements of Group Discussion	3
<b>Subtotal Units</b>	<b>9</b>

**IN ADDITION, complete SIX (6) units from the following courses: Foreign Language, CBIS, or other Administration of Justice courses.**

<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS (for Certificate of Achievement)</b>	<b>30</b>

**CERTIFICATE OF ACCOMPLISHMENT****Criminal Forensics Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
ADJUS 6 Intro to Evidence	3
ADJUS 8 Intro to Investigations	3
ADJUS 19 Fingerprint Classification & Identification	3
ADJUS 255 Intro to Forensics	3
<b>Subtotal units</b>	<b>12</b>

**IN ADDITION, complete ONE (1) of the following:**

ADJUS 3 Criminal Procedures	3
ADJUS 4 Criminal Law	3
ADJUS 10 Writing for Criminal Justice	3
ADJUS 17 Computer Usage in Criminal Justice	3
<b>Subtotal Units</b>	<b>3</b>
<b>TOTAL UNITS</b>	<b>15</b>

**Public Service-Transportation Security Administration Associate Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
HSA 401 Intro to Homeland Security Administration	3
HSA 401 Intelligence Analysis & Security Mgmt	3
HSA 403 Transportation and Border Security	3
<b>TOTAL UNITS</b>	<b>9</b>

**ADMINISTRATIVE ASSISTANT****Certificate of Achievement and/or Associate in Arts or Certificate of Accomplishment**

Please contact the department at (562) 938-4561 or go to the department website @ <http://caot.lbcc.edu> for information regarding the program.

**ADVANCED TRANSPORTATION TECHNOLOGY****ALTERNATE FUELS****Certificate of Achievement and/or Associate in Science or Certificate of Accomplishment**

**Mission Statement:** The mission of the Alternative Fuels Program is to provide students with state of the art training in servicing and maintaining Alternative Fueled vehicles in the light/medium and Heavy Duty engine platforms leading to a certificate and/or an AS Degree in Alternative Fuels.

**Outcomes:**

- Ability to safely work on high pressure and low temperature fuels without injury.
- Ability to diagnose and repair computer controlled and gaseous fueled engines.
- Ability to understand and comply with regulations regarding installations and inspections of systems and their related components.

The certificate and degree programs will prepare students for an entry-level position as a light/medium and heavy duty technician in such fields as car, bus, truck, and specialty equipment diagnosis and repair industry. Students prepare for a career in alternative fuel vehicle conversion, maintenance and repair using state-of-the-art equipment. Computerized engine management is emphasized. For more departmental information call (562) 938-3067 or go to the department website @<http://atcc.lbcc.edu>.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
AMECH 490 Introduction to Alternative Fuels	3.5
AMECH 491 Heavy Duty Alternative Fuels	3.5
AMECH 492 Heavy Duty Alt Fuel Diag & Repair	3.5
AMECH 493 Alt Fuel Conversion, Diag & Repair	3.5
<b>Subtotal Units</b>	<b>14</b>

**IN ADDITION, Complete ONE (1) class from the following:**

AMECH 233 Auto Electrical & Fuel Systems (F)	9
AMECH 236 Automotive Emissions & Computers Cntrl (Sp)	9
AMECH 438 Auto Emission Controls (F-night)	6
AMECH 440 Automotive Computer Systems (SP-night)	6
AMECH 442 Automotive Fuel Systems (F-night)	6
AMECH 444 Automotive Electrical Systems (SP-night)	6
DIESL 282 Cummins Four-Cycle Engine	10
DIESL 289 Caterpillar 3406 AND 3116	10
DIESL 293AD General Engines	4
<b>Subtotal Units</b>	<b>4-10</b>
<b>TOTAL UNITS</b>	<b>18-24</b>

**CERTIFICATES OF ACCOMPLISHMENT:****Advanced Transportation Technology–Light– Medium Duty Alternate Fuels Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
AMECH 490 Introduction to Alternative Fuels	3.5
AMECH 493 Alt Fuel Conversion, Diag & Repair	3.5
<b>TOTAL UNITS</b>	<b>7</b>

**Advanced Transportation Technology–Heavy Duty  
Alternate Fuels Certificate**

REQUIRED COURSES	UNITS
AMECH 491 Heavy Duty Alternative Fuels	3.5
AMECH 492 Heavy Duty Alt Fuel Diag & Repair	3.5
<b>TOTAL UNITS</b>	<b>7</b>

**ADVANCED TRANSPORTATION  
TECHNOLOGY  
Electric Vehicles**

**Certificate of Achievement and/or Associate in Science  
or Certificate of Accomplishment**

**Mission Statement:** The mission of the Electric Vehicle Program is to provide students with state of the art training in servicing and maintaining Electric Vehicles leading to a Certificate and/or an AS Degree in Electric Vehicles.

**Outcomes:**

- Ability to safely work on the high Voltages present in Electric Vehicles without injury.
- Ability to diagnose and repair computer controlled Electric Vehicles including hybrids, fuel cells, and plug in electrics, regarding installations and inspections of systems and their related components.
- Ability to compare the differences, advantages, and limitations of the various Electric Vehicles to determine proper application of each technology.

The certificate and degree programs will prepare students for an entry-level position as a light/medium and heavy-duty technician in such fields as car, bus, truck and specialty equipment diagnosis and repair industry. Students prepare for a career in hybrids, fuel cells and electric vehicle conversion, maintenance and repair using state-of-the-art equipment. For more departmental information call (562) 938-3067 or go to the department website @<http://attc.lbcc.edu>.

REQUIRED COURSES	UNITS
AMECH 480 Hybrid, Fuel Cell, & Electric Vehicles	3
AMECH 481 Adv. Hybrid & Fuel Cell Electric Vehicles	3
AMECH 483 Electric Vehicle Projects	3
AMECH 490 Introduction to Alternative Fuels	3.5
<b>Subtotal Units</b>	<b>12.5</b>

**IN ADDITION, complete SIX (6) units from the following:**

ABODY 211 Introduction to Basic Auto Body Repair	9
ABODY 240 Automotive Refinishing I	4.5
ABODY 419AD Auto Body Repair	4
AMECH 233 Auto Electrical & Fuel Systems (F)	9
AMECH 236 Automotive Emissions & Computer Cntrl(S)	9
AMECH 438 Auto Emission Controls (F-night)	6
AMECH 440 Automotive Computer Systems (SP-night)	6
AMECH 444 Automotive Electrical Systems (SP-night)	6
DIESL 391B Heavy Equipment Electrical Systems	5
SHMET 201 Sheet Metal I	10
SHMET 220A Surface Development & Fabrication I	5
SHMET 420AD Sheet Metal Fabrication	2
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>18.5</b>

**CERTIFICATES OF ACCOMPLISHMENT:**

**Advanced Transportation Technology–Electric  
Vehicle Certificate**

REQUIRED COURSES	UNITS
AMECH 480 Hybrid, Fuel Cell, & Electric Vehicles	3
AMECH 481 Adv. Hybrid & Fuel Cell Electric Vehicles	3
<b>TOTAL UNITS</b>	<b>6</b>

**AIR CONDITIONING/  
REFRIGERATION**

**THEORY & PRACTICAL EXPERIENCE**

**Certificate of Achievement and/or Associate in Science**

**Mission Statement:** The Refrigeration & Air Conditioning Technology program's mission is to provide technical training to meet the demands of the industry and the needs of the individual to provide employment and prepare students for the EPA exam which is required in the industry.

**Outcomes:**

- Perform service and repair tasks identified by the North America Technician Excellence (NATE).
- Perform industry standard diagnostic information to repair complex air conditioning problems using standard test equipment.

Students prepare for entry-level positions in air conditioning and refrigeration. The program includes H.V.A.C.R. (Heating, Ventilation, Air Conditioning, and Refrigeration) technology for commercial and industrial applications. Emphasis will be placed on training an individual to have the theory and manipulative skills that will enable that person to be a productive member of the air conditioning and refrigeration industry. For more departmental information call (562) 938-3053 or 938-3054 or go to the department website @<http://hvac.lbcc.edu>.

REQUIRED COURSES	UNITS
AC_R 211 Air Conditioning & Refrig. Fundamentals	10
AC_R 212 Electrical Theory & Component App	10
†AC_R 213 Psychrometrics, Ducting & Load Calc	10
†AC_R 214 Troubleshooting Total Comfort Systems	10
<b>TOTAL UNITS</b>	<b>40</b>

**RECOMMENDED but not required course:**

FORK 801 Forklift Safety & Operation	1
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**AIR CONDITIONING/  
REFRIGERATION**

**Certificate of Achievement and/or Associate in Science**

**Mission Statement:** The Refrigeration & Air Conditioning Technology program's mission is to provide technical training to meet the demands of the industry and the needs of the individual to provide employment and the capacity to attain career success in Air Conditioning/Refrigeration; and a sense of professional responsibility.

**Outcomes:**

- Perform service and repair tasks identified by the North America Technician Excellence (NATE).
- Perform industry standard diagnostic information to repair complex air conditioning problems using standard test equipment.

- Demonstrate safe and efficient competence with electrical, refrigerant, air flow, and environmental test equipments used in the HVAC industry.

Students prepare for entry-level positions in air conditioning and refrigeration. The program includes H.V.A.C.R. (Heating, Ventilation, Air Conditioning, and Refrigeration) technology for commercial and industrial applications. Emphasis will be placed on training an individual to have the theory and manipulative skills that will enable that person to be a productive member of the air conditioning and refrigeration industry. For more departmental information call (562) 938-3066 or go to the department website @<http://hvac.lbcc.edu>.

REQUIRED COURSES	UNITS
AC_R 220 Refrigeration Fundamentals	3
AC_R 223 Gas Heating Fundamentals	3
AC_R 226 Air Properties and Measurement	2
AC_R 229 Heat Pumps	3
AC_R 230 Electrical Fundamentals	3
AC_R 233 Commercial Electrical for HVAC	3
AC_R 240 Advanced Air Conditioning	4
AC_R 421A Automatic Controls for HVAC	3
<b>Subtotal Units</b>	<b>24</b>
<b>IN ADDITION, complete SIX (6) units from the following courses:</b>	
AC_R 421B Automatic Controls for Refrigeration, Air Conditioning & Heating	3
AC_R 422 Air Conditioning System Design & Install	3
AC_R 400A Uniform Mechanical Code I	3
AC_R 400B Uniform Mechanical Code II	3
AC_R 450A Transport Refrigeration	5
AC_R 450B Advanced Transport Refrigeration	5
AC_R 271AD or 272AD or 273AD Work Experience (Maximum 4 units)	2-4
FORK 801 Forklift Safety & Operation	1
<b>Subtotal units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>30</b>

### ARCHITECTURAL DESIGN (Transfer)

#### Associate in Science/ Certificate of Achievement

**Mission Statement:** To create an educational environment where students can achieve their individual goals by providing the necessary knowledge and skills to enter the design field of their choice by using the latest technologies and industry trends.

This field of concentration is designed to provide foundation knowledge of the practice of architecture with the option of maximizing the number of lower division transfer units. This Certificate of Achievement will prepare students for an entry-level position in a variety of design profession settings and will serve as a foundation for specialization. This Associate Degree will prepare students for a design-related career, and appropriate course selection will facilitate transfer to a professional degree program. For more departmental information call (562) 938-4718 or (562) 938-4467.

REQUIRED COURSES	UNITS
■ARCHT 60 Architectural Design or	8
■ARCHT 61 Architectural Design	4
<b>and</b>	
■†ARCHT 62 Architectural Design	4
■†ARCHT 64 Architectural Design or	8
■†ARCHT 65 Architectural Design	4
<b>and</b>	
■†ARCHT 66 Architectural Design	4
■†ARCHT 70AB Architectural Design or	8
■†ARCHT 71AD Architectural Design (complete 71AD twice)	4
<b>Subtotal Units</b>	<b>24</b>

**IN ADDITION, complete SIX (6) units from the following:**

*ART 1 Art & Civilization	3
*ART 3 Modern and Contemporary Art	3
ART 17AD Illustration I	3
*ART 30 Fundamentals of Art/Volume, Plane & Form	3
*ART 31 Fundamentals of Art/Composition. & Color	3
<b>Subtotal Units</b>	<b>6</b>

**IN ADDITION, complete THREE (3) units from the following:**

†*MATH 40 OR A more advanced Trigonometry level of Mathematics	3
<b>Subtotal Units</b>	<b>3</b>
<b>TOTAL UNITS</b>	<b>37-38</b>

### ART

#### Applied Design, Art History, Computer Art, Drawing & Painting, Design, Illustration, Printmaking, Sculpture Associate in Arts

**Mission Statement:** The mission of the Art and Photography Department at Long Beach City College is to provide students instruction in the visual arts whether beginning, advanced, or professional with a single class, general education courses, or a course of study, leading to transfer, Associate Degree, or a vocational certificate. Students can pursue their individual interests in the visual arts through an array of foundation courses establishing a technical and critical understanding of visual language. These courses lead to improved personal creative expression or to specialized instruction in numerous areas within the creative and applied arts. The arts involve students in the process of their learning, demanding constant reflection and active participation. The arts enable students to collaborate toward a common purpose. The arts are a powerful connection force between disciplines. As our world and problems become more complex, creative thinking becomes all the more important.

#### Outcomes:

- Produce professional quality artwork that demonstrates skill, craftsmanship, comprehension of visual design, and aesthetic conceptual rigor.
- Develop a foundation of skills, craft, traditional, and digital technologies.
- Analyze, interpret, and exercise critical judgment in the evaluation of visual art forms.

This field of concentration is designed to provide a fundamental education for a variety of specializations within the field. It also substantially fulfills lower division requirements for a baccalaureate degree in this major. This Associate Degree will prepare students for transfer to a four-year college for university. For more departmental information call (562) 938-4319 or go to the department website @<http://art.lbcc.edu>.

REQUIRED COURSES	UNITS
*ART 1 Art and Civilization	3
*ART 2 Art and Civilization	3
*ART 15 Beginning Drawing	3
*ART 23 Beginning Painting	3
*ART 30 Fundamentals of Art: Volume, Plane & Form	3
*ART 31 Fundamentals of Art: Composition & Color	3
*ART 35AD Jewelry/Metalsmithing 1	3
ART 41 Introduction to Computergraphics	3
*ART 50 Ceramics	3
*ART 60 Beginning Sculpture	3
ART 81AD Introduction to Fine Art Photography	3
ART 292 Professional Skills for Artists	3
<b>Subtotal Units</b>	<b>36</b>

**IN ADDITION to the above 36 units, complete SIX (6) UNITS from the following:**

APPLIED DESIGN	
ART 33AD Three Dimensional Practicum	1
*ART 34AD Applied Design/Crafts	3
†ART 36AD Jewelry/Metalsmithing 2	3
ART 37AD Jewelry/Metalsmithing 3	3
†ART 38AD Jewelry/Metalsmithing 4	3
*†ART 51AD Ceramics II	3
†ART 52AD Ceramics III	3
†ART 53AD Ceramics IV	3
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>42</b>

ART HISTORY	
*ART 3 Modern & Contemporary Art	3
*ART 4 Tribal Art	3
*ART 5 History of Asian Art	3
*ART 6 Art on the Town/Museum Study Visits	3
*ART 7 Art on the Town/Studio & Gallery Visits	3
*ART 8 Art on the Town/Special Exhibits	3
*ART 11 Pre-Columbian Art	3
ART 12AD Gallery and Exhibition Design	3
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>42</b>

COMPUTER ART	
†ART 42 Intro to 3D & Multimedia Computergraphics	3
†ART 43AD Beginning Website Design	3
†ART 44AD Graphic Design Tools and Techniques	3
†ART 45AD Computer Art for Drawing & Painting	3
†ART 46AD Computer Art & Design in 3-D Modeling	3
†ART 47AD Computer Art & Design for Multimedia	3
†ART 55AD Introduction to Graphic Design	3
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>42</b>

## DRAWING AND PAINTING

†ART 16AD Intermediate Drawing	3
ART 19AD Life Drawing	3
*ART 24 Beginning Watercolor	3
*†ART 26AD Figure Painting	3
†ART 27AD Intermediate Painting	3
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>42</b>

## DESIGN

ART 32 Intermediate Design	3
†ART 43AD Beginning Website Design	3
†ART 44AD Graphic Design Tools and Techniques	3
†ART 55AD Introduction to Graphic Design	3
ART 56AB Intro to Typography (One semester only)	1.5
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>42</b>

## ILLUSTRATION

ART 17AD Illustration I	3
ART 18AD Illustration II	3
ART 19AD Life Drawing (One semester only)	3
*†ART 26AD Figure Painting	3
†ART 45AD Computer Art for Drawing & Painting	3
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>42</b>

## PRINTMAKING

*†ART 70AD Printmaking, Silkscreen	3
*†ART 71AD Printmaking, Intaglio	3
†ART 72AD Printmaking, Advanced	3
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>42</b>

## SCULPTURE

†ART 61AD Intermediate Sculpture	3
ART 62AD Sculpture - Metal Fabrication	3
ART 63AD Sculpture – Metal Casting	3
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>42</b>

## AUTO BODY REPAIR

### Certificate of Achievement and/ or Associate in Science

Students learn skills necessary for entry-level jobs in the automotive industry relating to painting & collision repair. For more departmental information call (562) 938-3072 or 938-3054.

REQUIRED COURSES	UNITS
ABODY 211 Intro. Basic Auto Body Repair	9
†ABODY 212 Minor Collision Repair	9
†ABODY 213 Major Collision Repair	9
ABODY 240 Automotive Refinishing I	4.5
ABODY 419A Auto Body Repair	4
ABODY 419D Auto Body Repair	4
AMECH 421 Auto Mechanics 1 <b>OR</b>	3
AMECH 424 Auto Air Conditioning	3
<b>TOTAL UNITS</b>	<b>42.5</b>

### RECOMMENDED courses but not required:

†ENVR 1 Energy for the Future <b>OR</b>	3
†CHEM 2 Elementary Chemistry	4

## AUTO MECHANICS

### Associate in Science and/or Certificate of Achievement or Certificate of Accomplishment

**Mission Statement:** To provide practical and theoretical knowledge and skills for students to prepare them for jobs in the automotive industry.

**Outcomes:**

- Troubleshoot and repair an electrical and fuel related malfunction according to industry standards.
- Troubleshoot and repair a steering and brake related malfunction according to industry standards.
- Troubleshoot and repair an engine and transmission related malfunction according to industry standards.
- Troubleshoot and repair an emission and on-board computer control related malfunction according to industry standards.

Students prepare for entry-level jobs in the automotive service industry. For more departmental information call (562) 938-3054 or 938-5207.

REQUIRED COURSES	UNITS
AMECH 231 Eng. Repair & Automatic Transmissions <b>or</b>	9
AMECH 434 Engine Repair <b>AND</b>	6
AMECH 436 Automatic & Standard Transmission	6
AMECH 232 Brakes/Steering Systems <b>or</b>	9
AMECH 430 Auto Wheel Alignment <b>AND</b>	6
AMECH 432 Automotive Brake Systems	6
AMECH 233 Auto Electrical & Fuel Systems <b>or</b>	9
AMECH 442 Automotive Fuel Systems <b>AND</b>	6
AMECH 444 Automotive Electrical Systems	6

AMECH 236 Auto Emission & Computer Control <b>or</b>	9
AMECH 438 Auto Emission Controls <b>AND</b>	6
AMECH 440 Automotive Computer Systems	6
AMECH 50A Automotive Machine	3
AMECH 424 Auto Air Conditioning	3
<b>TOTAL UNITS</b>	<b>42-54</b>

**RECOMMENDED courses but not required:**

†ENVRS 1 Energy for the Future <b>OR</b>	3
†CHEM 2 Elementary Chemistry	4

### CERTIFICATES OF ACCOMPLISHMENT:

#### Quick Service Technician- Brake Inspection Certificate

REQUIRED COURSE	UNITS
AMECH 803 Quick Service Technician- Brake Inspection	2
<b>TOTAL UNITS</b>	<b>2</b>

#### Quick Service Technician- Lubrication Service Certificate

REQUIRED COURSE	UNITS
AMECH 801 Quick Service Technician- Lubrication Service	2
<b>TOTAL UNITS</b>	<b>2</b>

#### Quick Service Technician- Tire Service Certificate

REQUIRED COURSE	UNITS
AMECH 802 Quick Service Technician- Tire Service	2
<b>TOTAL UNITS</b>	<b>2</b>

### Advanced Transportation Technology- Electric Vehicle Certificate

REQUIRED COURSE	UNITS
AMECH 480 Hybrid, Fuel Cell & Electric Vehicles	3
AMECH 481 Adv. Hybrid, Fuel Cell & Electric Vehicles	3
<b>TOTAL UNITS</b>	<b>6</b>

### Advanced Transportation Technology- Light- Medium Duty Alternate Fuels Certificate

REQUIRED COURSE	UNITS
AMECH 490 Introduction to Alternate Fuels	3.5
AMECH 493 Alt. Fuels Conversion Diagnosis & Repair	3.5
<b>TOTAL UNITS</b>	<b>7</b>

### Advanced Transportation Technology- Heavy Duty Alternate Fuels Certificate

REQUIRED COURSE	UNITS
AMECH 491 Heavy Duty Alternate Fuels	3.5
AMECH 492 Heavy Duty Alt. Fuel Diagnosis & Repair	3.5
<b>TOTAL UNITS</b>	<b>7</b>

## AERONAUTICS PROGRAM AVIATION MAINTENANCE (Airframe/Powerplant Mechanic)

### Associate in Science/ Certificate of Achievement/ FAA Certificate of Completion

**Mission Statement:** The mission of the Long Beach City College Aviation Maintenance Technician School is to provide academic instruction and technical training, as specified within the FAA approved training curriculum and in accordance with Title 14 CFR Part 147 of the Federal Aviation Regulations. Training and instruction will be conducted pursuant to the Aviation Mechanic certification requirements, as specified in the FAA Practical Test Standards for students seeking federal certification under Title 14 CFR Part 65 of the Federal Aviation Regulations as Airframe and Powerplant Mechanics.

**Outcomes:**

- Synthesize and Demonstrate TITLE 14 CFR PART 147 APPENDIX B: GENERAL CURRICULUM (identify; select; calculate; measure; inspect).
- Synthesize and Demonstrate TITLE 14 CFR PART 147 APPENDIX C I. & II. AIRFRAME CURRICULUM (inspect; check; service; troubleshoot; repair).
- Synthesize and Demonstrate TITLE 14 CFR PART 147 APPENDIX D I. & II. POWERPLANT CURRICULUM (overhaul; service; troubleshoot; repair).

Program Graduates fulfill the Federal requirements to take the FAA certification exams. Upon successful completion of these examinations, applicants may obtain Airframe and/or Powerplant (A&P) Mechanic Certificates. Excellent career opportunities exist in the fields of general, corporate, military, and commercial aviation. For more program information call (562) 938-3069 or go to [www.LBCCAIVATION.COM](http://www.LBCCAIVATION.COM)



REQUIRED COURSES	UNITS
±AVMNT 201 General Aircraft Science	8
±AVMNT 202 General Aircraft Maintenance	8
±AVMNT 203 Airframe Structures	8
±AVMNT 204 Airframe Components	8
±AVMNT 205 Airframe Systems	8
±AVMNT 206 Powerplant Systems	8
±AVMNT 207 Powerplant/Reciprocating Engines	8
±AVMNT 208 Powerplant/Turbine Engines	8
<b>TOTAL UNITS</b>	<b>64</b>
<b>RECOMMENDED but not required</b>	
AVMNT 401AD Aircraft Mechanics Test Prep.	4
AVMNT 601 Aviation Refresher Training	0

## BAKING

### Associate in Science and/or Certificate of Achievement or Certificate of Accomplishment

**Mission Statement:** The mission of the Baking Program is to provide our students with the fundamental knowledge of Baking and Pastry principles and techniques, and to prepare our graduates for employment in Retail, Hotel, and Resort Bakery and Pastry kitchens.

#### Outcomes:

- Create a yeast bread product to industry standards.
- Create a pastry product to industry standards.
- Synthesize the principles and reactions of basic baking ingredients and their properties alone and when combined with other ingredients.

Students learn skills for positions in baking and pastry for institutional, restaurant, airline catering, convention center, cruise line, supermarket, and hotel restaurant type food operations. Students will enhance their skills in baking, pastry and chocolate. For more departmental information call (562) 938-4328 or 938-4502 or go to the department website @ <http://culinary.lbcc.edu>.

REQUIRED COURSES	UNITS
F_N 250 Nutrition for Culinary	2
CULAR 20 App Food Service Sanit Hotel/Rest Mgmt	3
CULAR 200AD Introduction to Chocolate	1
†CULAR 204 Introduction to Baking	5
†CULAR 205 Baking & Pastry I	5
†CULAR 206 Baking & Pastry II	5
CULAR 207 Commercial Cake Decorating	5
CULAR 271AD Work Exp: Food Services (2 units/2 sem)	4
<b>TOTAL UNITS</b>	<b>30</b>

#### RECOMMENDED courses but not required:

MATH 805 Modern Arithmetic	4
COMIS 1 Computer Information Competency	1
CAOTC 45 Internet for Office and Personal Use	2
CULAR 213A Food Preparation 1	11.5
F_N 252AD Cake Decorating and Sugar Cookery	1.5
†CULAR 213B Food Preparation 2	11.5
†CULAR 213C Food Preparation 3	11.5

#### CERTIFICATES OF ACCOMPLISHMENT:

##### Introduction to Baking Certificate

REQUIRED COURSE	UNITS
†CULAR 204 Introduction to Baking	5
<b>TOTAL UNITS</b>	<b>5</b>

### Baking and Pastry 1 Certificate

REQUIRED COURSE	UNITS
†CULAR 204 Introduction to Baking	5
†CULAR 205 Baking and Pastry 1	5
<b>TOTAL UNITS</b>	<b>10</b>

### Baking and Pastry 2 Certificate

REQUIRED COURSE	UNITS
†CULAR 204 Introduction to Baking	5
†CULAR 206 Baking and Pastry 2	5
<b>TOTAL UNITS</b>	<b>10</b>

### Commercial Cake Decorating Certificate

REQUIRED COURSE	UNITS
CULAR 207 Commercial Cake Decorating	5
<b>TOTAL UNITS</b>	<b>5</b>

### Food Preparation 1 Certificate

REQUIRED COURSE	UNITS
CULAR 20 App Food Service Sanit Hotel/Rest. Mgmt	3
<b>TOTAL UNITS</b>	<b>3</b>

## BIOLOGICAL SCIENCES

### Associate in Arts or Science

**Mission Statement:** The Program Mission Statement is not available for the *Biological Sciences* program. Please contact the department for additional information.

This field of concentration provides the student with an introductory education to this field, not necessarily career related, ending with the associate degree, or a partial lower division preparation for transfer to a baccalaureate degree in the biological sciences. This Associate Degree will provide the student with an introductory education to this field of study, not necessarily career related, but ending with the Associate Degree or a partial lower division preparation for transfer to a Baccalaureate Degree in the biological sciences. For more departmental information call (562) 938-4957.

REQUIRED COURSES	UNITS
<b>Select courses from the following to total 9-12 UNITS</b>	
ANAT	
BIO (excluding BIO 47, 48 or 49)	
†PHYSI	
<b>Subtotal Units</b>	<b>9-12</b>

#### IN ADDITION, complete SIX-NINE (6-9) UNITS from:

ASTR	Astronomy Courses
CHEM	Chemistry Courses
ENVR 1	Energy for the Future
P GEOG 1	Physical Geography [excluding all other Geography-GEOG-courses]
GEOL	Geology Courses
MATH	Math Courses [excluding MATH 110, 805, 815]
PHYS	Physics Courses
<b>Subtotal Units</b>	<b>6-9</b>
<b>TOTAL UNITS</b>	<b>18</b>

## BUSINESS ADMINISTRATION (Transfer)

### Certificate of Achievement and/or Associate in Arts

**Mission Statement:** The mission of the Business - Administration (Transfer) Program is to help students acquire the necessary knowledge and skills to transfer to an upper-division Business program at a 4-year college or university.

**Outcomes:**

- Comprehend the primary elements of the language and theories of the Business environment, while recognizing the importance of ethics, social responsibility, and diversity as legitimate organizational objectives.
- Use creative and critical-thinking strategies in the solution of complex business situations through the application of learned Business concepts.
- Develop communication and teamwork skills for the purpose of ensuring future personal and professional success.

This field of concentration allows students to earn the Associate Degree while partially preparing them for transfer into the business administration major at a university. In addition, it prepares the student for an entry-level position in any business office. This Certificate of Achievement will prepare students for an entry-level position in a variety of business settings and will serve as a foundation for specialization. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4328 or go to the department website @ <http://business.lbcc.edu>.

#### REQUIRED COURSES

	UNITS
ACCTG 1A Principles of Accounting	4
†ACCTG 1B Principles of Accounting	4
†*ECON 1A Macro Economic Analysis	3
†*ECON 1B Micro Economic Analysis	3
LAW 18A Business Law	3
<b>Subtotal Units</b>	<b>17</b>

**IN ADDITION, complete ONE (1) of the following courses:**

CAOTC 34 Intro to Computers and Applications	3
CBIS 8B Visual BASIC Programming	4
†CBIS 208B Advanced Visual BASIC Programming	4
CBIS 6B Intermediate Business Applications	3
CBIS 6A Intro to IT Concepts and Applications	4
LAW 18B Business Law	3
<b>Subtotal Units</b>	<b>3-4</b>

**IN ADDITION, complete ONE (1) of the following courses:**

†*MATH 37 Finite Mathematics	3
†*MATH 47 Calculus for Business	3
†*MATH 50 Precalculus Mathematics	5
†*MATH 60 First Calculus Course	5
<b>Subtotal Units</b>	<b>3-5</b>
<b>TOTAL UNITS</b>	<b>23-26</b>

**RECOMMENDED courses but not required:**

CAOTO 15 Business Communications	3
†CBIS 36 Systems Analysis and Design	3
GBUS 5 Introduction to Business	3
IBUS 1 Intro to International Business	3
LAW 18B Business Law	3
*PHIL 7 Introduction to Ethics	3
*PHIL 12 Introduction to Logic	3
†*STAT 1 Elementary Statistics	3

## BUSINESS GENERAL

### Associate in Arts/ Certificate of Achievement

**Mission Statement:** The mission of the Business - General Program is to help students acquire the necessary knowledge and skills to begin, or enhance, a career in business, or for transfer to an upper-division business program at a 4-year college or university.

**Outcomes:**

- Comprehend the primary elements of the language and theories of the Business environment, while recognizing the importance of ethics, social responsibility, and diversity as legitimate organizational objectives.
- Use creative and critical-thinking strategies in the solution of complex business situations through the application of learned Business concepts.
- Develop communication and teamwork skills for the purpose of ensuring future personal and professional success.

This field of concentration is designed to acquaint the student with the business world in general. With additional course work, it can prepare students for either employment or further education. Students with definite career/educational goals are recommended to follow the appropriate curriculum guide for their specific field of concentration, such as Accounting or Business Administration (transfer), Marketing, Management, International Business, or Real Estate. This Certificate of Achievement will prepare students for an entry-level position in a variety of business settings and will serve as a foundation for specialization. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4328 or go to the department website @ <http://business.lbcc.edu>.

#### REQUIRED COURSES

	UNITS
GBUS 5 Introduction to Business	3
LAW 18A Business Law	3
MKTG 47 Essentials of Marketing	3
MGMT 49A Introduction to Management	3
GBUS 251 Business Mathematics	3
<b>Subtotal Units</b>	<b>15</b>

**IN ADDITION, complete ONE (1) of the following courses:**

LAW 18B Business Law	3
ACCTG 200A Introduction to Accounting	3
<b>Subtotal Units</b>	<b>3</b>

*Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.*

**IN ADDITION, complete ONE (1) of the following courses:**

CBIS 6A Intro to IT Concepts and Applications	4
CAOTC 34 Intro to Computers and Applications	3
<b>Subtotal Units</b>	<b>3-4</b>
<b>TOTAL UNITS</b>	<b>21-22</b>

**RECOMMENDED but not required courses:**

†ACCTG 1A Principles of Accounting	4
†ACCTG 228 Computerized Gen Ledger Account Sys	2
†ACCTG 229 Spreadsheet Accounting	3
ACCTG 400 Personal Finance Management	3
CAOTO 15 Business Communications	3
CAOTO 261 Business English	3
IBUS 1 Introduction to International Business	3
MGMT 80 Small Business Entrepreneurship	3
MKTG 40 Salesmanship	3

**BUSINESS MANAGEMENT****Certificate of Achievement and/or Associate in Arts**

**Mission Statement:** The mission of the Business - Management Program is to help students acquire the necessary knowledge and skills to begin, or enhance, a career in the area of organizational management, or for transfer to an upper-division marketing program at a 4-year college or university.

**Outcomes:**

- Comprehend the primary elements of the language and theories of organized management, while recognizing the importance of ethics, social responsibility, and diversity as legitimate management objectives.
- Use creative and critical-thinking strategies in the solution of complex business situations through the application of learned management concepts.
- Develop communication and teamwork skills for the purpose of ensuring future personal and professional success.

The certificate and degree programs prepare students for a wide range of entry and mid-level positions in business management. Students can enhance their skills in management by studying the internal and external forces that affect all organizations. For more departmental information call (562) 938-4328 or go to the department website @ <http://business.lbcc.edu>.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
MGMT 49A Introduction to Management	3
MGMT 49B Human Resources Management	3
MGMT 80 Small Business Entrepreneurship	3
MGMT 58 Leadership and Supervision	3
MGMT 60 Management & Organizational Behavior	3
<b>Subtotal Units</b>	<b>15</b>

**IN ADDITION, complete ONE (1) of the following courses:**

GBUS 5 Introduction to Business	3
LAW 18A Business Law	3
MKTG 47 Essentials of Marketing	3
<b>Subtotal Units</b>	<b>3</b>
<b>TOTAL UNITS</b>	<b>18</b>

**RECOMMENDED but not required courses:**

ACCTG 1A Principles of Accounting	4
†ACCTG 1B Principles of Accounting	4
ACCTG 200A Introduction to Accounting	3

ACCTG 400 Personal Financial Management	3
CAOTC 34 Intro to Computers and Applications	3
CAOTO 15 Business Communications	3
CBIS 6A Introduction to IT Concepts & Applications	4
*ECON 1A Macro Economic Analysis	3
*ECON 1B Micro Economic Analysis	3
MKTG 40 Salesmanship	3
MKTG 41 Marketing Communications	3

**CARPENTRY****Technology/Trade****Home Remodeling & Repair****Certificate of Achievement and/or Associate in Science or Certificate of Accomplishment**

Students prepare for jobs in the carpentry industry. This Certificate of Achievement will prepare students for an entry-level position in a variety of business settings and will serve as a foundation for specialization. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-3091 or 938-3055 or 938-3104 or go to the department website @ <http://carpentry.lbcc.edu>.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
CARP 211 Carpentry 1	10
†CARP 212 Carpentry 2	10
†CARP 213 Carpentry 3	10
CARP 440 Blueprint Reading for Construction Trade	3
<b>Subtotal Units</b>	<b>33</b>

**IN ADDITION, complete SEVEN (7) units from the following courses:**

CARP 219 Residential Roof	4
CARP 222 Residential Stairs	4
CARP 225 Metal Framing	4
CARP 227 Finish Carpentry	3
CARP 230 Cost Estimating	4
CARP 245 Contracting Laws and Management	3
HORT 223AD Landscape Construction	4
MGMT 80 Small Business Entrepreneurship	3
<b>Subtotal Units</b>	<b>7</b>
<b>TOTAL UNITS</b>	<b>40</b>

**RECOMMENDED Courses but not required:**

AC_R 230 Electrical Fundamentals	3
COMIS 1 Computer Information Competency	1
ELECT 202 Electrical Mathematics	3
SHMT 220A Basic Sheet Metal Layout & Fabrication	4
SPAN 1 Elementary Spanish	5
WELD 400AD Welding (General)	2

**Carpenter Trainee Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
CARP 311 Carpentry	3
†CARP 312 Carpentry 2	3
†CARP 313 Carpentry 3	3
†CARP 314 Carpentry 4	3
<b>Subtotal Units</b>	<b>12</b>

**IN ADDITION, complete THREE-TO-FOUR (3-4) units from the following courses:**

CARP 230 Cost Estimating	4
AC_R 230 Electrical Fundamentals	3

ARCHT 360M1 Basic Auto-CAD for Architecture and	1.5
ARCHT 360M2 Architecture Design-Auto CADD	1.5
CARP 440 Blueprint Reading for Construction Trade	3
ELECT 240 Electrical Code-Residential	3
HORT 223AD Landscape Construction	4
SHMT 220A Basic Sheet Metal Layout & Fabrication	5
WELD 400AD Welding (General)	2
<b>Subtotal Units</b>	<b>3-4</b>
<b>TOTAL UNITS</b>	<b>15-16</b>

**Home Remodeling & Repair Technician Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
CARP 415A Home Remodeling & Repair	2
†CARP 415B Home Remodeling & Repair	2
†CARP 415C Home Remodeling & Repair	2
†CARP 415D Home Remodeling & Repair	2
<b>Subtotal Units</b>	<b>8</b>

**IN ADDITION, complete THREE-TO-FOUR (3-4) units from the following courses:**

AC_R 230 Electrical Fundamentals	3
ARCHT 360M1 Basic Auto-CAD for Architecture and	1.5
ARCHT 360M2 Architecture Design-Auto CAD	1.5
CARP 230 Cost Estimating	4
ELECT 204 1st Sem Fundamentals of DC Electricity	3
ELECT 240 Electrical Code-Residential	3
HORT 223AD Landscape Construction	4
<b>Subtotal Units</b>	<b>3-4</b>
<b>TOTAL UNITS</b>	<b>11-12</b>

**CHILD DEVELOPMENT**

**Associate in Arts**

**Mission Statement:** The Child and Adult Development Department at Long Beach City College is committed to enhancing the quality of life for students, children and families throughout the life span. Embracing the diversity each student brings, the Department strives to empower individual learners through personal and professional growth. This department provides general and vocational education at the lower division level.

**Outcomes:**

- Compare and contrast various theoretical frameworks that relate to the study of human development.
- Critically assess how educational, political, and socioeconomic factors directly impact the lives of children and families.
- Transfer from LBCC to a University.

**University Transfer:** This field of concentration is designed for students who wish to transfer to a four-year degree program in Child Development or Early Childhood Education. If your objective is to transfer to a four-year degree program universities will only accept transferable units which means the LBCC course number must be from 1-99. Be sure to meet with an academic counselor before you begin your course of study. For more departmental information call (562) 938-4549 or go to the department website @ <http://childdevelopment.lbcc.edu>.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
▲±CDECE 1 The Developing Professional DS3	1
▲±CDLL 52A Fieldwork/Preschool Techniques DS3	2

▲±CDECE 45 Child and Adolescent Development DS1or 3	3
▲±CDECE 47 Human Development DS1	3
▲±CDECE 53 Principles and Practices DS3	3
*SOCIO 1 Introduction to Sociology	3
*PSYCH 1 Introduction to Psychology	3
<b>Subtotal Units</b>	<b>15</b>

**IN ADDITION, complete SIX (6) Units from the following courses. Not all courses transfer to all universities. Check with a counselor for specific transfer information before course selection.**

▲±CDECE 40 Infant Development and Educaring DS4	3
▲±CDECE 41 Toddler Development and Educaring DS4	3
▲±CDECE 48 Child, Family and Community DS2	3
▲±†CDECE 50 Intro to Curriculum for Young Child DS3	3
▲±CDECE 59 Guiding Young Children DS3	3
▲±CDECE 61 Teaching in a Diverse Society DS3	3
▲±†CDECE 66 Observation and Assessment DS3	6

<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>21</b>

± These courses also apply towards a Program Certificate in Early Childhood Education offered at LBCC.

▲ This pattern of child development also applies toward a Child development Permit by the California Commission for Teacher Preparation and Licensing. This permit is required for employment in certain programs (Title 5)

**CHILD DEVELOPMENT:**

**EARLY CHILDHOOD EDUCATION**

**Associate in Arts/ Certificate of Achievement or Certificate of Accomplishment**

**Mission Statement:** The Child and Adult Development Department at Long Beach City College is committed to enhancing the quality of life for students, children and families throughout the life span. Embracing the diversity each student brings, the Department strives to empower individual learners through personal and professional growth. This department provides general and vocational education at the lower division level.

**Outcomes:**

- Design, implement, and evaluate environments and activities that support optimum developmental play and learning outcomes for all young children.
- Demonstrate responsive care and teaching practices for young children through the integration of assessment, theory, and practice.
- Develop strategies that build reciprocal relationships with families and communities based on the acceptance of diversity.
- Apply effective guidance and interaction strategies to support children's social learning, peer relations, and self-confidence.
- Incorporate ethical and professional standards engaging in collaborative learning and reflective practices.

This field of concentration is designed for students preparing to work preschool children in group settings as an aide, teacher or center director.

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

**For STATE MINIMUM REQUIREMENTS (Title 22):**

This program satisfies the State of California licensing requirement for employment in early childhood education programs (private, church, industrial, coop). The minimum Title 22 licensing requirement to work as a teacher is that six units be completed before employment and that an additional six units be completed immediately thereafter. It is recommended that the requirement for courses in DS 1\* and DS 2\* be satisfied with at least three semester units in each category. It is also recommended that a minimum of six semester units be taken in the DS 3\* -Program/Curriculum with the option that if the person is working specifically with infants or school-age children that they should apply three units in DS 4\* or DS 5\* towards these six units. The DS designation can be found following the course title.

**For CHILD DEVELOPMENT PERMIT - (formerly called Children's Center Permit) (Title 5):** The Early Childhood Certificate program, plus 16 units in general education including one course in humanities, social sciences, mathematics, and/or science, and English, along with an experience component, satisfies the requirements for a Child Development Permit. A permit is required to teach in subsidized early childhood education programs (State or Headstart preschool programs run by school districts). To apply for your state Child Development Permit call 562-938-4547 for an appointment. For more departmental information call (562) 938-4549 or go to the department website @ <http://childdevelopment.lbcc.edu>.

**REQUIRED COURSES- Complete levels 1, 2 and 3 then choose ONE (1) AREA OF FOCUSED STUDY**

<b>LEVEL 1</b>	<b>UNITS</b>
CDECE 1 The Developing Professional DS3	1
CDLL 52A Fieldwork/Preschool Techniques DS3 <b>or</b>	2
CDLL 51A Fieldwork/Infant-Toddler Techniques DS4	2
CDECE 45 Child & Adolescent Development DS1 <b>or</b>	3
CDECE 47 Human Development DS1	3
CDECE 48 Child, Family, and Community DS2	3
<b>Subtotal Units</b>	<b>9</b>
<b>LEVEL 2</b>	
CDECE 19 Health, Safety and Nutrition DS7	3
†CDECE 50 Intro to Curriculum for Young Child DS3	3
CDECE 53 Principles and Practices DS3	3
CDECE 61 Teaching in a Diverse Society DS3	3
<b>Subtotal Units</b>	<b>12</b>
<b>LEVEL 3</b>	
†CDECE 66 Observation and Assessment DS3	3
†CDECE 68 Practicum DS3	3
<b>Subtotal Units</b>	<b>6</b>
<b>Subtotal Level 1 + Level 2 + Level 3</b>	<b>27</b>

**In addition to the 27 units listed above, choose and complete ONE (1) AREA OF FOCUSED STUDY from below.**

**Child Behavior**

CDECE 59 Guiding Young Children DS3	3
CDECE 259 Challenging Behavior in Childhood DS3	3
<b>Subtotal Units</b>	<b>6</b>

**Curriculum**

CDECE 54 Art & Creative Dev in Early Childhood DS3	3
CDECE 55 Music & Movement in Early Childhood DS3	3
CDECE 57 Science & Math in Early Childhood DS3	3
<b>Subtotal Units</b>	<b>9</b>

**Family Child Care**

CDFDC 212A Family Child Care Management A DS3	3
CDFDC 212B Family Child Care Management B DS3	3
<b>Subtotal Units</b>	<b>6</b>

**Working with Parents**

CDF 210A Skills and Strategies for Family Workers I	3
CDF 210B Skills and Strategies for Family Workers II	3
CDLL 231A Practicum for Working with Parents	2
<b>Subtotal Units</b>	<b>8</b>

**Infant/Toddler**

†CDECE 40 Infant Development and Educaring DS4	3
†CDECE 41 Toddler Development and Educaring DS4	3
CDLL 51B Fieldwork/Infant-Toddler Techniques DS4	2
<b>Subtotal Units</b>	<b>8</b>

**Early Literacy**

CDECE 34 Children's Literature DS3	3
CDECE 58 Language and Literacy in Early Childhood DS3	3
<b>Subtotal Units</b>	<b>6</b>

**Special Needs**

CDECE 5 Community Resources/Special Ed DS3	3
CDECE 67 The Exceptional Child DS3	3
CDECE 70 Teaching Exceptional Students DS3	3
<b>Subtotal Units</b>	<b>9</b>

**School Age**

CDSA 62 Creative Expressions for School Age Children DS2	3
CDSA 63 The School Age Child DS3	3
CDSA 65 School Age Curriculum DS3	3
<b>Subtotal Units</b>	<b>8</b>

**Administration (Advanced Level)**

†CDECE 60A Admin. of Child Development Prog DS6	3
†CDECE 60B Advanced Supervision of ECE DS6	3
CDECE 31 Adult Supervision DS6	2
<b>Subtotal Units</b>	<b>8</b>
<b>TOTAL UNITS</b>	<b>33-36</b>

**CERTIFICATES OF ACCOMPLISHMENT:****Child Development- Early Childhood Education Assistant Teacher Certificate**

May assist in the instruction of children under supervision of Associate Teacher or above.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
CDECE 45 Child & Adolescent Development DS1 <b>or</b>	3
CDECE 47 Human Development DS1	3
CDECE 48 Child, Family and Community DS2	3
<b>TOTAL UNITS</b>	<b>6</b>

**Child Development- Early Childhood Education Associate Teacher Certificate**

May provide instruction and supervise Assistant.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
CDECE 1 The Developing Professional DS3	1
CDLL 52A Preschool Techniques DS3 <b>or</b>	2
CDLL 51A Ecology of Early Childhood- Whole Child DS4	2
CDECE 45 Child & Adolescent Development DS1 <b>or</b>	3
CDECE 47 Human Development DS1	3
CDECE 48 Child, Family and Community DS2	3
CDECE 50 Intro to Curriculum for Young Child DS3	3
<b>TOTAL UNITS</b>	<b>12</b>

**Child Development Permit Specialization Area-Child Health and Safety Certificate**

REQUIRED COURSES	UNITS
CDECE 19 Child Nutrition and Safety DS7	3
PEPP 23 First Aid and Safety Education	3
<b>TOTAL UNITS</b>	<b>6</b>

**Child Development Permit Specialization Area-Children with Exceptional Needs Certificate**

REQUIRED COURSES	UNITS
<b>Choose SIX (6) units from the following:</b>	
CDESD 5 Community Resources/Special Ed DS3	3
CDESD 67 The Exceptional Child DS3	3
CDESD 70 Teaching Exceptional Students DS3	3
<b>TOTAL UNITS</b>	<b>6</b>

**Child Development Permit Specialization Area-Family Child Care Certificate**

REQUIRED COURSES	UNITS
CDFDC 212A Family Child Care Management A	3
CDFDC 212B Family Child Care Management B	3
<b>TOTAL UNITS</b>	<b>6</b>

**Child Development Permit Specialization Area-Infant/Toddler Certificate**

REQUIRED COURSES	UNITS
CDECE 40 Infant Development & Educaring DS4	3
CDECE 41 Toddler Development & Educaring DS4	3
<b>TOTAL UNITS</b>	<b>6</b>

**Child Development Permit Specialization Area- Early Literacy Certificate**

REQUIRED COURSES	UNITS
CDECE 34 Children’s Literature DS3	3
CDECE 58 Language and Literacy in Early Childhood DS3	3
<b>TOTAL UNITS</b>	<b>6</b>

**Child Development Permit Specialization Area- School Age Certificate**

REQUIRED COURSES	UNITS
<b>Choose SIX (6) units from the following:</b>	
CDSA 62 Creative Expressions for School Age Children DS52	
CDSA 63 The School Age Child DS5	3
CDSA 65 School Age Curriculum DS5	3
<b>TOTAL UNITS</b>	<b>6</b>

**Family Development Certificate**

REQUIRED COURSES	UNITS
CDECE 47 Human Development	3
CDECE 48 Child, Family & Community	3
CDF 210A Skills & Strategies for Family Workers Pt.I	3
CDF 210B Skills & Strategies for Family Workers Pt.II	3
<b>TOTAL UNITS</b>	<b>12</b>

**CHILD DEVELOPMENT:  
SCHOOL AGE CHILD CARE**

**Associate in Arts and/or Certificate of Achievement**

**Mission Statement:** The Child and Adult Development Department at Long Beach City College is committed to enhancing the quality of life for students, children and families throughout the life span. Embracing the diversity each student brings, the Department strives to empower individual learners through personal and professional

growth. This department provides general and vocational education at the lower division level.

**Outcomes:**

- Design, implement, and evaluate environments and activities that support optimum developmental play and learning outcomes for all school-aged children.
- Demonstrate responsive care and teaching practices for young children through the integration of assessment, theory and practice.
- Apply effective guidance and interaction strategies to support children's social learning, peer relations, and self-confidence.
- Incorporate ethical and professional standards engaging in collaborative learning and reflective practices.

This field of concentration is designed for students preparing to teach in before-and after-school aged child care programs. It also provides students preparing for a career as an elementary school teacher an opportunity to gain knowledge of the school-age child as well as effective curriculum and guidance methods. This Certificate of Achievement leads towards positions as aides, teachers, directors in before-and-after school programs or as recreation aides or leaders. For more departmental information call (562) 938-4549 or go to the department website @ <http://childdevelopment.lbcc.edu>.

For **STATE MINIMUM REQUIREMENTS (Title 22):** This program satisfies the State of California licensing requirement for employment in early childhood education programs (private, church, industrial, coop). The minimum Title 22 licensing requirement to work as a teacher is that six units be completed before employment and that an additional six units be completed immediately thereafter. It is recommended that the requirement for courses in DS 1\* and DS 2\* be satisfied with at least three semester units in each category.

For **CHILD DEVELOPMENT PERMIT – SCHOOL AGE EMPHASIS** (formerly called Children’s Center Permit) (Title 5): The School Age Child Care Certificate program, plus 16 units in general education including one course in humanities, social science, mathematics, and/or science, and English, and an experience component, satisfies the requirements for a Child Development Permit-School Age Emphasis to teach in subsidized early childhood education programs (State programs run by school districts).

REQUIRED COURSES	UNITS
CDECE 45 Child & Adolescent Development DS1	3
CDECE 47 Human Development DS1	3
CDECE 48 Child, Family and Community DS2	3
CDSA 63 The School Age Child DS5	3
CDESD 67 The Exceptional Child DS3	3
CDSA 62 Creative Expression, School Age Children DS	2
CDSA 65 School Age Curriculum DS5	3
†CDSA 75 School Age Child Care Practicum DS5	3
<b>Subtotal Units</b>	<b>20</b>

**IN ADDITION, complete SIX (6) units from the following:**

CDECE 19 Health, Safety and Nutrition DS7	3
CDECE 50 Intro to Curriculum for Young Children DS7	3
CDECE 54 Art & Creative Dev in Early Childhood DS3	3
CDECE 55 Music & Movement in Early Childhood DS3	3

*Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.*

CDECE 57 Science & Math in Early Childhood DS3	3	<b>IN ADDITION, complete SIX (6) units from the following courses:</b>	
CDECE 58 Language & Literacy in Early Childhood DS3	2	CDECE 19 Health, Safety, and Nutrition DS7	3
CDECE 59 Guiding Young Children DS3	3	CDECE 61 Teaching in a Diverse Society DS3	3
†CDECE 60A Admin of Child Dev. Programs DS6	3	CDECE 72AD, 73AD Work Experience	
†CDECE 60B Advanced Supervision of ECE DS6	3	(Not to exceed 4 units)	3:4
CDECE 61 Teaching in a Diverse Society DS3	3	ΦSIGN 1A American Sign Language, Beginning	3
<b>Subtotal Units</b>	<b>6</b>	†SIGN2A-B American Sign Language, Intermed.	3
<b>TOTAL UNITS</b>	<b>26</b>	<b>Subtotal Units</b>	<b>6</b>
<b>RECOMMENDED but not required courses:</b>		<b>TOTAL UNITS</b>	<b>27</b>
CDF 210A Skills & Strategies for Family Workers I	3	<b>(15 of the 27 required units must be taken at Long Beach City College.)</b>	
CDF 210B Skills & Strategies for Family Workers II	3	<i>Recommended: A valid Red Cross First Aid Certificate</i>	

## CHILD DEVELOPMENT:

### SPECIAL EDUCATION ASSISTANT

#### Certificate of Achievement and/or Associate in Arts

**Mission Statement:** The Child and Adult Development Department at Long Beach City College is committed to enhancing the quality of life for students, children and families throughout the life span. Embracing the diversity each student brings, the Department strives to empower individual learners through personal and professional growth. This department provides general and vocational education at the lower division level.

#### Outcomes:

- Design, implement, and evaluate environments and activities that support optimum developmental play and learning outcomes in an inclusive environment for all children.
- Demonstrate responsive care and teaching practices for all children through the integration of assessment, theory, and practice.
- Apply effective guidance and interaction strategies to support all children's social learning, peer relations, and self-confidence.
- Incorporate ethical and professional standards engaging in collaborative learning and reflective practices.

Students prepare to work as an assistant with children who have special needs. Employment opportunities include: Teacher Assistant in School Districts, residential Care Centers, Department of rehabilitation, Private Agencies (salary depends upon experience, education, and nature of position). For more departmental information call (562) 938-4549 or (562) 938-5033 or go to the department website @ <http://childdevelopment.lbcc.edu>.

REQUIRED COURSES	UNITS
CDECE 47 Human Development DS1	3
CDECE 59 Guiding Young Children DS3	3
CDSED 5 Community Resources for Special Education DS3	3
CDSED 67 The Exceptional Child DS3	3
CDSED 70 Teaching Exceptional Students DS3	3
†CDSED 69 Special Education Practicum DS3	3
SIGN 1A-B American Sign Language, Beginning	3
<b>Subtotal Units</b>	<b>21</b>

## COLLEGE AND WORKFORCE PREPARATION

### Noncredit Certificates of Completion

**Mission Statement:** The Program Mission Statement is not available for the *College and Workforce Preparation* program. Please contact the department for additional information.

**BASIC SKILLS FOR THE WORKPLACE:** The certificate in Basic Skills for the Workplace will certify that students have achieved the basic skills of reading, writing and computation necessary for the workplace. Furthermore, this certificate will verify that students have demonstrated skill achievement at levels that are necessary for pursuing high-skill, high wage employment. For more departmental information on the Basic Adult Education (BAE) program you may call 562-938-3991. For more information on the English as a Second Language (ESL) Department you may call 562-938-3037.

### NONCREDIT CERTIFICATES OF COMPLETION:

#### Basic Skills for the Workplace

REQUIRED COURSES	UNITS
BAE 601A Adult Basic Education: Literacy Development	0
BAE 601B Adult Education: Basic Skills/GED	0
<b>TOTAL UNITS</b>	<b>0</b>

*Students must log in a minimum of 57 contact hours of laboratory work. The student must complete the required assessment/proficiency exams in reading, writing, and mathematics for each course with a score of 80% or above in each required assessment/proficiency exam.*

#### English for Everyday

REQUIRED COURSES	UNITS
ESL 640 English for Everyday	0
ESL 641 English for Everyday	0
ESL 642 English for Everyday	0
ESL 643 English for Everyday	0
ESL 644 English for Everyday	0
ESL 645 English for Everyday	0
ESLLC 699 Basic Skills for ESL Students (at least 18 hours)	0
<b>TOTAL UNITS</b>	<b>0</b>

*Completion of ESL 645 (a minimum of 234 hours). For these promotion/Retention courses, students must earn 70% or higher in each course to pass.*

**Reading Skills for ESL Students**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
ESL 602A English for Everyday	0
ESL 602B English for Everyday	0
ESL 602C English for Everyday	0
ESL 602D English for Everyday	0
ESL 602E English for Everyday	0
ESL 602F English for Everyday	0
ESLLC 699 Basic Skills for ESL Students (at least 18 hours)	0
<b>TOTAL UNITS</b>	<b>0</b>

Completion of ESL 602F (a minimum of 72 hours). For these promotion/Retention courses, students must earn 70% or higher in each course to pass.

**COMMERCIAL MUSIC**

**Composer/Arranger**

**Certificate of Achievement and/or Associate in Arts**

**Mission Statement:** Students prepare to compete in the world of commercial music production in the specific area of arranging and working in the high-tech studio environment.

**Outcomes:**

- Develop and demonstrate jazz writing techniques
- Prepare a song leadsheet using music software
- Arrange or compose for an ensemble of musical instruments or voices using music software.

Students prepare to compete in the world of commercial music production in the specific area of arranging and work in the high-tech studio environment. This Certificate of Achievement will prepare students for an entry-level position in a variety of music performance, composition and recording opportunities, i.e. production arranger, live performance composer/arranger, film/video music scoring, jingle writer, songwriter, string/wind arranger. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer to a four-year college or university music composition/technology program. For more departmental information call (562) 938-4309.

<b>REQUIRED CORE COURSES</b>	<b>UNITS</b>
MUSIC 71AD Introduction to Music Technology	2
MUSIC 75A The Music Business	1
MUSIC 75B The Music Business	1
†MUSIC 86AD Record Production (Fundamentals)	2
MUSIC 93AD MIDI Music Production 2	2
MUSIC 94 Beginning Recording Techniques	2
MUSIC 98AD MIDI Music Production 1	2
<b>Subtotal Units</b>	<b>12</b>

**REQUIRED COURSES FOR SPECIALITY**

MUSIC 50AD Performance Showcase/Ensemble (take twice)	2
MUSIC60AD ProTools (Digital Audio Recording/Edit)	2
MUSIC 72AD Com Improvisation/Arranging/Scoring	2
MUSIC 81AD Commercial Keyboard (take twice)	4
MUSIC 83AD Film/Video Music/Scoring (take twice)	2
MUSIC 84AD Commercial Songwriting (take twice)	4
MUSIC 90AD Commercial Music Theory (take twice)	4
<b>Subtotal Units</b>	<b>20</b>

**REQUIRED ELECTIVES- complete SIX (6) units from the following:**

MUSIC 59AD Digital Recording & Sampling Tech.	2
MUSIC 62AD/63AD Com. Guitar/Bass Studies(Beg./Int.)	1
ΦMUSIC 72AD Com Improvisation/Arranging/Scoring	2
MUSIC 80AD “City” Jazz Big Band	1
MUSIC 87AD Vocal Jazz Trios, Quintets, Octettes	1
†MUSIC 96AD Advanced Recording Techniques	2
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>38</b>

**COMMERCIAL MUSIC**

**Professional Instrumentalist**

**Certificate of Achievement and/or Associate in Arts**

**Mission Statement:** Students prepare for live instrumental and studio performance.

**Outcomes:**

- Perform, by playing, a varied repertoire of jazz style musical arrangements within a small instrumental ensemble setting (three to eight people).
- Rehearse and synthesize musical elements to effectively perform in front of a "live" audience.
- Analyze musical notation accurately by reading sheet music.

Students prepare for live instrumental and studio performance and interactions with state-of-the-art equipment, i.e., work as a commercial professional musician in all live and recording venues (small groups, big bands studio, casuals, TV and movies). This Certificate of Achievement will prepare students for an entry-level position in a variety of music performance and recording opportunities. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer to a four-year college or university music performance program. For more departmental information call (562) 938-4309.

<b>REQUIRED CORE COURSES</b>	<b>UNITS</b>
MUSIC 71AD Introduction to Music Technology	2
MUSIC 75A The Music Business	1
MUSIC 75B The Music Business	1
MUSIC 86AD Record Production (Fundamentals)	2
MUSIC 93AD MIDI Music Production 2	2
MUSIC 94 Beginning Recording Techniques	2
MUSIC 98AD MIDI Music Production 1	2
<b>Subtotal Units</b>	<b>12</b>

**REQUIRED COURSES FOR SPECIALITY**

MUSIC 50AD Performance Showcase/Ensemble (take4times)	4
MUSIC 72AD Comm. Improv/Arranging/Score(take twice)	4
MUSIC 80AD “City” Jazz Big Band (take four times)	4
MUSIC 81AD Commercial Keyboard (take twice)	4
MUSIC 84AD Commercial Songwriting (take twice)	4
MUSIC 85AD Comm. Small Jazz Group (take four times)	4
<b>Subtotal Units</b>	<b>24</b>

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.



<b>REQUIRED ELECTIVES- complete TWO (2) units from the following:</b>	
MUSIC 59AD Digital Recording & Sampling Tech.	2
MUSIC 62AD Comm. Guitar/Bass Studies (Beginning)	1
MUSIC 63AD Comm. Guitar/Bass Studies (Intermediate)	1
MUSIC 83AD Film/Video Music Scoring	1
MUSIC 97AD Tools of the Music Trade	2
<b>Subtotal Units</b>	<b>2</b>
<b>TOTAL UNITS</b>	<b>38</b>

## COMMERCIAL MUSIC Professional Technology

### Certificate of Achievement and/or Associate in Arts

**Mission Statement:** To prepare students to compete in the world of commercial music and/or the entertainment industry.

#### Outcomes:

- Record and produce music using computer-based multi-track recording and processing.
- Produce a song using computer-based software and hardware that include a full range sonic and tumbrel colors.

Students prepare to compete in the world of commercial music and/or the entertainment industry. This Certificate of Achievement will prepare students for an entry-level position in a variety of music performance, film/video post-production, computer synthesis technician and corporate tech support. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer to a four-year college or university music composition/technology program. For more department information call (562) 938-4309.

REQUIRED CORE COURSES	UNITS
MUSIC 71AD Introduction to Music Technology	2
MUSIC 75A The Music Business	1
MUSIC 75B The Music Business	1
†MUSIC 86AD Record Production (Fundamentals)	2
†MUSIC 93AD MIDI Music Production 2	2
MUSIC 94 Beginning Recording Techniques	2
MUSIC 98AD MIDI Music Production 1	2
<b>Subtotal Units</b>	<b>12</b>

#### REQUIRED COURSES FOR SPECIALITY

MUSIC 59AD Digital Recording & Sampling Tech (take twice)	4
MUSIC 60AD ProTools (Digital Audio Recording/Edit)	2
MUSIC 81AD Commercial Keyboard	2
MUSIC 83AD Film/Video Music Scoring	1
MUSIC 84AD Commercial Songwriting (take twice)	4
MUSIC 88AD Small Studio Lab	1
MUSIC 90AD Commercial Music Theory (take twice)	4
MUSIC 97AD Tools of the Music Trade	2
<b>Subtotal Units</b>	<b>20</b>

#### REQUIRED ELECTIVES- complete SIX (6) units from the following:

ΦMUSIC 59AD Digital Recording & Sampling Tech	2
ΦMUSIC 60AD ProTools (Digital Audio Recording/Edit)	2
MUSIC 62AD Comm. Guitar/Bass Studies (Beginning)	1
MUSIC 63AD Comm. Guitar/Bass Studies (Intermediate)	1
MUSIC 68 Basic Audio Theory	2
ΦMUSIC 81AD Commercial Keyboard	2
ΦMUSIC 83AD Film/Video Music Scoring	1
†MUSIC 93AD MIDI Music Production 2	2

†MUSIC 95 Intermediate Recording Techniques	2
MUSIC 96AD Advanced Recording Techniques	2
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>38</b>

## COMMERCIAL MUSIC

### Professional Vocalist

#### Certificate of Achievement and/or Associate in Arts

**Mission Statement:** The Program Mission Statement is not available for the *Commercial Music Professional Vocalist* program. Please contact the department for additional information.

Students prepare for vocal performance in recording and live performance situations (clubs, churches, theaters, film and television). This Certificate of Achievement will prepare students for an entry-level position in a variety of commercial music, professional vocalist opportunities. This Associate Degree will prepare students for career advancement and will also facilitate transfer to a four-year college or university music performance program. For more departmental information call (562) 938-4309.

REQUIRED CORE COURSES	UNITS
MUSIC 71AD Introduction to Music Technology	2
MUSIC 75A The Music Business	1
MUSIC 75B The Music Business	1
†MUSIC 86AD Record Production (Fundamentals)	2
MUSIC 93AD MIDI Music Production 2	2
MUSIC 94 Beginning Recording Techniques	2
MUSIC 98AD MIDI Music Production 1	2
<b>Subtotal Units</b>	<b>12</b>

#### REQUIRED COURSES FOR SPECIALITY

MUSIC 7AB Elementary Voice	2
MUSIC 74AD Commercial Solo Voice (take four times)	8
MUSIC 78AD Studio Singers <b>or</b>	2
MUSIC 44AD The Evening Jazz Choir	2
MUSIC 81AD Commercial Keyboard	2
MUSIC 84AD Commercial Songwriting	2
MUSIC 90AD Commercial Music Theory	2
MUSIC 91AD Special Studies	2
<b>Subtotal Units</b>	<b>20</b>

#### REQUIRED ELECTIVES-complete SIX (6) units from the following:

ΦMUSIC 7AB Elementary Voice	2
MUSIC 42AD Professional Advanced Vocal Ensemble	1
MUSIC 59AD Digital Recording & Sampling Tech	2
ΦMUSIC 71AD Introduction to Music Technology	2
ΦMUSIC 78AD Studio Singers <b>or</b>	1
MUSIC 44AD The Evening Jazz Choir	1
ΦMUSIC 81AD Commercial Keyboard	2
ΦMUSIC 84AD Commercial Songwriting	2
Φ†MUSIC 86AD Record Production (Fundamentals)	2
MUSIC 87AD Vocal Jazz Trios, Quintets, Octettes	1
MUSIC 88AD Small Studio Lab	1
ΦMUSIC 90AD Commercial Music Theory	2
ΦMUSIC 93AD MIDI Music Production 2	2
†MUSIC 95 Intermediate Recording Techniques	2
†MUSIC 96AD Advanced Recording Techniques	2
ΦMUSIC 98AD MIDI Music Production 1	2
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>38</b>

**COMMERCIAL MUSIC****Record Producer****Associate in Arts and/or Certificate of Achievement or Certificate of Accomplishment**

**Mission Statement:** The Program Mission Statement is not available for the *Commercial Music Record Producer* program. Please contact the department for additional information.

**Outcomes:**

- Proficiency in entry-level training in industry standard skills: Students will achieve artistic proficiency in the use of industry standard vocational technology, techniques and communication skills.
- Proficiency in the use of industry standard vocational technology, techniques and communication skills: Students will achieve artistic proficiency in the use of industry standard vocational technology, techniques and communication skills.

Students prepare for pre-production and post-production techniques in the studio environment using state-of-the-art equipment. This Certificate of Achievement will prepare students for entry-level positions as a record producer in fields such as: recording studio, mastering, foley, music video, television, film, theater and multi-media. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer to a four-year college or university music performance program. For more departmental information call (562) 938-4309.

REQUIRED COURSES FOR SPECIALTY	UNITS
MUSIC 60AD ProTools(Digital Audio Record/Edit)(take twice)	4
MUSIC 61AD Music Mastering	1
MUSIC 65AD Advanced-Pro Recording Techniques	2
†MUSIC 66AD Studio Mixdown Techniques(take twice)	4
MUSIC 68 Basic Audio Theory	2
MUSIC 75A The Music Business <b>or</b>	1
MUSIC 75B The Music Business	1
†MUSIC 86AD Record Production (Fundamentals)	2
MUSIC 94 Beginning Recording Techniques	2
†MUSIC 95 Intermediate Recording Techniques	2
†MUSIC 96AD Advanced Recording Techniques	2
MUSIC 271AD Work Experience-Music	2
<b>Subtotal Units</b>	<b>24</b>

**REQUIRED ELECTIVES-complete TWELVE (12) units from the following:**

MUSIC 1A Music Theory I	3
MUSIC 6 Introduction to Music Theory	3
MUSIC 51A Beginning Piano 1	2
MUSIC 51B Beginning Piano 2	2
ΦMUSIC 60AD Pro Tools (Digital Audio Record/Edit)	2
ΦMUSIC 61AD Music Mastering	1
ΦMUSIC 65AD Advanced-Pro Recording Techniques	2
†ΦMUSIC 66AD Studio Mixdown Techniques	2
ΦMUSIC 69A-D Analysis of Music Video	8
MUSIC 71AD Introduction to Music Technology	2
†MUSIC 82AD Sound Reinforcement	2
MUSIC 83AD Film/Video Music/Scoring	1
MUSIC 84AD Commercial Songwriting	2
†ΦMUSIC 86AD Record Production (Fundamentals)	2

MUSIC 90AD Commercial Music Theory	2
ΦMUSIC 93AD MIDI Music Production 2	2
†ΦMUSIC 96AD Advanced Recording Techniques	2
MUSIC 97AD Tools of the Music Trade	2
ΦMUSIC 98AD MIDI Music Production 1	2
MUSIC 272 Work Experience-Music	3
MUSIC 273 Work Experience-Music	4
<b>Subtotal Units</b>	<b>14</b>
<b>TOTAL UNITS</b>	<b>38</b>

**CERTIFICATES OF ACCOMPLISHMENT:****Pro Tools Assistant Certificate**

REQUIRED COURSES	UNITS
MUSIC 94 Beginning Recording Techniques	2
†MUSIC 95 Intermediate Recording Techniques	2
MUSIC 60AD Pro Tools (take 4 semesters)	8
<b>TOTAL UNITS</b>	<b>12</b>

**Studio Assistant Certificate**

REQUIRED COURSES	UNITS
MUSIC 60AD Pro Tools(Digital Audio Recording/Edit)	2
†MUSIC 65AD Advanced-Pro Recording Techniques	2
MUSIC 68 Basic Audio Theory	2
MUSIC 70AD Studio Maintenance	2
MUSIC 94 Beginning Recording Techniques	2
†MUSIC 95 Intermediate Recording Techniques	2
†MUSIC 96AD Advanced Recording Techniques	2
<b>TOTAL UNITS</b>	<b>14</b>

**COMMERCIAL MUSIC****Recording Engineer****Associate in Arts and/or Certificate of Achievement or Certificate of Accomplishment**

**Mission Statement:** The Program Mission Statement is not available for the *Commercial Music Recording Engineer* program. Please contact the department for additional information.

**Outcomes:**

- Students will achieve proficiency in entry-level training in industry standard skills current to recording technologies.
- Students will achieve proficiency in the artistic use of industry standard vocational technology and techniques.

Students prepare for music production in the studio environment using state-of-the-art equipment. This certificate of Achievement will prepare students for an entry-level position as an audio engineer in fields such as: recording studio, live sound, mastering, music video, foley, television, film, theater and multimedia. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer to a four-year college or university music performance program. For more departmental information call (562) 938-4309.

REQUIRED COURSES FOR SPECIALTY	UNITS
MUSIC 60AD ProTools(Digital Audio Record/Edit)(take twice)	4
MUSIC 61AD Music Mastering	1
MUSIC 65AD Advanced-Pro Recording Techniques (take twice)	4
†MUSIC 66AD Studio Mixdown Techniques (take twice)	4

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

MUSIC 68 Basic Audio Theory	2
MUSIC 75A The Music Business or	1
MUSIC 75B The Music Business	1
†MUSIC 82AD Sound reinforcement (take twice)	2
†MUSIC 86AD Record Production (Fundamentals)	2
MUSIC 94 Beginning Recording Techniques	2
†MUSIC 95 Intermediate Recording Techniques	2
†MUSIC 96AD Advanced Recording Techniques (take twice)	4
MUSIC 271AD Work Experience-Music	2
<b>Subtotal Units</b>	<b>24</b>

**REQUIRED ELECTIVES – Complete SIX (6) units from the following:**

MUSIC 1A Music Theory I	3
MUSIC 3 Music Theory-Counterpoint	3
MUSIC 51A Beginning Piano 1	2
MUSIC 51B Beginning Piano 2	2
ΦMUSIC 59AD Digital Recording & Sampling Tech	2
ΦMUSIC 60AD ProTools(Digital Audio Record/Edit)	2
ΦMUSIC 61AD Music Mastering	1
ΦMUSIC 65AD Advanced-Pro Recording Techniques	2
†ΦMUSIC 66AD Studio Mixdown Techniques	2
ΦMUSIC 70AD Studio Maintenance	2
ΦMUSIC 71AD Introduction to Music Technology	2
†MUSIC 82AD Sound Reinforcement	2
MUSIC 83AD Film/Video Music/Scoring	1
MUSIC 84AD Commercial Songwriting	2
†ΦMUSIC 86AD Record Production (Fundamentals)	2
MUSIC 88AD Small Studio Lab	1
MUSIC 90AD Commercial Music Theory	2
ΦMUSIC 93AD MIDI Music Production 2	2
†ΦMUSIC 96AD Advanced Recording Techniques	2
MUSIC 97AD Tools of the Music Trade	2
ΦMUSIC 98AD MIDI Music Production 1	2
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>40</b>

**CERTIFICATES OF ACCOMPLISHMENT:**

**Pro Tools Assistant Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
MUSIC 94 Beginning Recording Techniques	2
†MUSIC 95 Intermediate Recording Techniques	2
MUSIC 60AD Pro Tools (take 4 semesters)	8
<b>TOTAL UNITS</b>	<b>12</b>

**Studio Assistant Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
MUSIC 60AD Pro Tools(Digital Audio Recording/Edit)2	2
†MUSIC 65AD Advanced-Pro Recording Techniques	2
MUSIC 68 Basic Audio Theory	2
MUSIC 70AD Studio Maintenance	2
MUSIC 94 Beginning Recording Techniques	2
†MUSIC 95 Intermediate Recording Techniques	2
†MUSIC 96AD Advanced Recording Techniques	2
<b>TOTAL UNITS</b>	<b>14</b>

**COMMERCIAL MUSIC**

**Songwriter**

**Associate in Arts and/or Certificate of Achievement**

**Mission Statement:** The Program Mission Statement is not available for the *Commercial Music Songwriter* program. Please contact the department for additional information.

Students prepare to compete in the world of commercial music production specifically for areas of songwriting, composition and work in the high-tech studio environment. This Certificate of Achievement will prepare students for an entry-level position in a variety of music performance, composition and recording opportunities, i.e., staff song-writer, jingle writer, movie music, vocal arranger, producer, STAR. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer to a four-year college or university music composition/technology program. For more departmental information call (562) 938-4309.

**REQUIRED CORE COURSES UNITS**

MUSIC 71AD Introduction to Music Technology	2
MUSIC 75A The Music Business	1
MUSIC 75B The Music Business	1
†MUSIC 86AD Record Production (Fundamentals)	2
†MUSIC 93AD MIDI Music Production II	2
MUSIC 94 Beginning Recording Techniques	2
MUSIC 98AD MIDI Music Production I	2
<b>Subtotal Units</b>	<b>12</b>

**REQUIRED COURSES FOR SPECIALITY**

MUSIC 59AD Digital Recording & Sampling Tech	2
MUSIC 60AD ProTools (Digital Audio Record/Edit)	2
MUSIC 72AD Commercial Improv/Arranging/Scoring	2
MUSIC 81AD Commercial Keyboard (take twice)	4
MUSIC 84AD Commercial Songwriting (take 3 times)	6
MUSIC 90AD Commercial Music Theory (take twice)	4
<b>Subtotal Units</b>	<b>20</b>

**REQUIRED ELECTIVE-Complete SIX (6) units from the following:**

MUSIC 50AD Perform Showcase/Ensemble Workshop	1
ΦMUSIC 60AD ProTools (Digital Audio Record/Edit)	2
MUSIC 63AD Comm. Guitar/Bass Studies(Intermediate)	1
MUSIC 74AD Commercial Solo Voice	2
MUSIC 80AD “City” Jazz Big Band	1
ΦMUSIC 81AD Commercial Keyboard	2
MUSIC 83AD Film/Video Music Scoring	1
†MUSIC 88AD Small Studio Lab	1
ΦMUSIC 93AD MIDI Music Production 2	2
†MUSIC 95 Intermediate Recording Techniques	2
†MUSIC 96AD Advanced Recording Techniques	2
ΦMUSIC 98AD MIDI Music Production 1	2
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>38</b>

**COMPUTER APPLICATIONS**

**SPECIALIST**

**Certificate of Achievement and/or Associate in Arts or Certificate of Accomplishment**

Please contact the department at (562) 938-4904 or go to the department website @ <http://caot.lbcc.edu> for information regarding the program.

## COMPUTER and BUSINESS INFORMATION SYSTEMS & COMPUTER SCIENCE

### Associate in Arts/ Certificate of Achievement and/or Certificate of Accomplishment

**Mission Statement:** The mission of the department is to prepare the students for the first two years of their Information Systems/ Computer Science education. In addition, the department provides professional development and training for individuals employed or seeking entry level positions in the Computer Information Systems and Information Technology job markets.

**Outcomes:**

- Choose the correct application for a given task
- Problem solve common information technology failures

The CBIS Department has four Certificate of Achievement programs and several Certificate of Accomplishment programs for students interested in working in the computer industry. Track 1 is intended for those students interested in working as help desk technicians assisting end-users resolve software and hardware problems. Track 2 is intended for students interested in developing computer application software in business and industry as an entry-level computer programmer on PCs, mid-range or larger sized computers. Track 3 is intended for students interested in a solid foundation of programming and software engineering skills for use in Computer Science. Track 4 is intended for students who want to know how networking is going to affect their work life, and want to understand what this technology is all about, or are trying to find out if a network would help their organization. It will also prepare students for MS Windows Certification. The CBIS department offers several Certificates of Accomplishment, many of which are also designed to prepare the student to pass industry certification exams. The Certificates of Achievement will prepare students for an entry-level position in a variety of business settings: Track 1- Microcomputer Help-Desk Technician: PC Support specialist, Software Support. Track 2- Programmer- Java C++, Visual BASIC, Oracle, and Desktop Support. Track 3- Programmer- Computer Science. Track 4- Networking- System Administrators or Networking Support. The Associate Degree will prepare students for transfer to the four-year college or university. For more departmental information email: [cbis@lbcc.edu](mailto:cbis@lbcc.edu) or go to the department website <http://cbis.lbcc.edu> or call (562) 938-4333.

#### Track 1- Microcomputer Help-Desk Technician

This track is intended for students interested in working as a help desk technician or in technical support of the PC systems.

REQUIRED COURSES FOR TRACK 1	UNITS
CBIS 6A Intro to IT Concepts & Applications	4
CAOTO 15 Business Communications	3
CBIS 41 Networking Fundamentals	3
CBIS 36 Systems Analysis and Design	3
<b>Subtotal Units</b>	<b>13</b>

#### Required MAJOR COURSES (listed below in recommend sequence)

†CBIS 207AD Web Construction I	2
CBIS 270 Introduction to Information Security	1
†CBIS 3 Operating Systems: Software and Hardware	3.5
†CBIS 200 Computer Technician Hardware Basics	3.5
†CBIS 260 Help Desk Concepts	1
<b>Subtotal Units</b>	<b>11</b>

#### IN ADDITION, required Work Experience –complete at least TWO (2) units from the following:

†CBIS 71AD Work Experience – Comp Info Sys (60 Hours)	2
†CBIS 72AD Work Experience – Comp Info Sys(120 Hours)	3
†CBIS 73AD Work Experience – Comp Info Sys(180 Hours)	4
<b>Subtotal Units</b>	<b>2-4</b>

#### IN ADDITION, complete, THREE (3) Units from the following courses:

CAOTC 39A Microsoft Word for Windows	3
CBIS 211AD Web Construction II	2
CBIS 223 Unix/Linux Fundamentals	3
CAOTO 263 Customer Service	3
CBIS 6B Intermediate Business Applications	3
CBIS 6C Advanced Business Applications	3
<b>Subtotal Units</b>	<b>3</b>
<b>TOTAL UNITS FOR TRACK 1</b>	<b>29-31</b>

#### Track 2 - Programmer

This track is intended for students interested in becoming a computer programmer.

#### Required CORE Courses (listed below in recommend sequence) UNITS

†CBIS 6A Intro to IT Concepts & Applications	4
CAOTO 15 Business Communications	3
CBIS 41 Networking Fundamentals	3
†CBIS 36 Systems Analysis & Design	3
<b>Subtotal Units</b>	<b>13</b>

#### Required MAJOR COURSES (listed below in recommend sequence)

†CBIS 3 Operating Systems: Software and Hardware	3.5
†CBIS 7 Business Programming Logic & Design	3.5
†CBIS 38 Database Concepts	4
<b>Subtotal Units</b>	<b>11</b>

#### IN ADDITION, complete ONE (1) of the following SERIES:

†CBIS 8B Visual BASIC Programming	4
<b>and</b>	
†CBIS 208B Advanced Visual Basic Programming or	4
†CS 11 Computer Programming/C++ I	3.5
<b>and</b>	
†CS 12 Computer Programming/C++ II or	3.5
†CS 21 Introduction to Computer Science I	3.5

<b>and</b>	
†CBIS 8B Visual BASIC Programming or	4
<b>Subtotal Units</b>	<b>7-8</b>

#### IN ADDITION, complete ONE (1) of the following ELECTIVES:

†CBIS 8B Visual BASIC Programming	4
†CS 11 Computer Programming/C++ I	3.5
†CS 21 Introduction to Computer Science I	3.5
†CBIS 71AD Work Experience-Comp Bus Info Sys	2
†CBIS 72AD Work Experience-Comp Bus Info Sys	3
†CBIS 73AD Work Experience-Comp Bus Info Sys	4

*Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.*

†CBIS 206C World Wide Web Database Programming	2.5
†CBIS 207E Dynamic HTML Web Construction	2.5
†CBIS 216A Introduction to C# Programming	3.5
†CBIS 223 Unix/Linux Fundamentals	3
†CBIS 436A Intro to Project Management Systems	3
†CBIS 251 Introduction to ASP.NET	3.5
†CBIS 420 PHP & My SQL for the Web	3.5
†CBIS 430 Ruby on Rails Web Development	3.5
†CBIS 492 ST Interpretive Programming Languages	2.5
<b>Subtotal Units</b>	<b>2.5-4</b>
<b>TOTAL UNITS FOR TRACK 2</b>	<b>33.5-36</b>

### Track 3 - Programmer-Computer Science

This track is intended for students interested in Computer Science courses that will help them succeed after transferring to a CSU or UC School Computer Science major program. See a counselor to inquire about CSU or UC school-specific computer science transfer requirements. Not all of the courses in this track will meet the specific degree requirements of a particular school.

<b>Required CORE Courses (listed below in recommend sequence)</b>	<b>UNITS</b>
†CBIS 6A Intro to IT Concepts & Applications	4
CAOTO 15 Business Communications	3
CBIS 41 Networking Fundamentals	3
†CBIS 36 Systems Analysis & Design	3
<b>Subtotal Units</b>	<b>13</b>

### Required MAJOR COURSES (listed below in recommend sequence)

†CBIS 3 Operating Systems: Software and Hardware	3.5
†CBIS 7 Business Programming Logic & Design	3.5
†CBIS 38 Database Concepts	4
†CBIS 223 Unix/Linux Fundamentals	3
<b>Subtotal Units</b>	<b>14</b>

### IN ADDITION, complete ONE (1) of the following SERIES:

†CBIS 8B Visual BASIC Programming	4
<b>and</b>	
†CBIS 208B Advanced Visual Basic Programming <b>or</b>	4
†CS 11 Computer Programming/C++ I	3.5
<b>and</b>	
†CS 12 Computer Programming/C++ II	3.5
<b>and</b>	
†CS 13 C++ Data Structures and Algorithms <b>or</b>	3.5
†CS 21 Introduction to Computer Science I	3.5
<b>and</b>	
†CS 22 Introduction to Computer Science II	3.5
<b>Subtotal Units</b>	<b>7-10.5</b>

### IN ADDITION, complete ONE (1) of the following ELECTIVES:

†CBIS 8B Visual BASIC Programming	4
†CS 11 Computer Programming/C++ I	3.5
†CS 21 Introduction to Computer Science I	3.5
†CBIS 216A Introduction to C# Programming	3.5
†CBIS 420 PHP & My SQL for the Web	3.5
†CBIS 430 Ruby on Rails Web Development	3.5
†CBIS 492 ST Interpretive Programming Languages	2.5
<b>Subtotal Units</b>	<b>2.5-4</b>

### IN ADDITION, complete FIVE (5) UNITS from the following:

†MATH 60 First Calculus Course	5
†MATH 70 Second Calculus Course	5
†MATH 80 Third Calculus Course	5

†MATH 55A Discrete Mathematics I	4
†MATH 55B Discrete Mathematics II	3
†PHYS 3A Physics for Science & Eng-Mechanics	5
†PHYS 3B Physics for Science & Eng -E and M	4
†PHYS 3C Physics for Science & Eng -Modern Physics	4
<b>Subtotal Units</b>	<b>5</b>
<b>TOTAL UNITS FOR TRACK 3</b>	<b>41.5-46.5</b>

### Track 4 - Networking

This track is intended for students interested in working as a help desk technician or in technical support of the PC systems.

### Required CORE Courses (listed below in recommend sequence)

†CBIS 6A Intro to IT Concepts & Applications	4
CAOTO 15 Business Communications	3
CBIS 41 Networking Fundamentals	3
†CBIS 36 Systems Analysis & Design	3
<b>Subtotal Units</b>	<b>13</b>

### REQUIRED COURSES (listed below in recommended sequence)

†CBIS 3 Operating Systems: Software and Hardware	3.5
†CBIS 200 Computer Technician Hardware Basics	3.5
†CBIS 212 Wireless Communications	1.5
†CBIS 220 i-Net+ Internet Technologies	3
†CBIS 223 Unix/Linux Fundamentals	3
†CBIS 225 Microsoft Windows Client O.S.	2.5
†CBIS 226 Microsoft Windows Server O.S.	2.5
†CBIS 227 Microsoft Windows Networking	2.5
<b>Subtotal Units</b>	<b>22</b>

### Recommended but not required Electives:

†CBIS 71AD Work Experience – Comp Info Sys (60 Hours)	2
†CBIS 72AD Work Experience – Comp Info Sys (120 Hours)	3
†CBIS 73AD Work Experience – Comp Info Sys (180 Hours)	4
†CBIS 228 Microsoft Windows Directory Services	2.5
CBIS 270 Introduction to Information Security	1
†CBIS 271 Network Security Fundamentals	3
CISCO 250 Networking Wiring Installation	3
CISCO 251 Introduction to Networking	3
†CISCO 252 Routing and Access Control	3
†CISCO 253 Cisco Networking III, LAN	3
†CISCO 254 WAN's and Remote Access	3
<b>TOTAL UNITS FOR TRACK 4</b>	<b>35</b>

### CERTIFICATES OF ACCOMPLISHMENT:

#### Computer Tech A+ Preparation

<b>REQUIRED COURSE</b>	<b>UNITS</b>
†CBIS 6A Intro to IT Concepts & Applications	4
†CBIS 3 Operating Systems: Software and Hardware	3.5
†CBIS 200 Computer Technician Hardware Basics	3.5
†CBIS 71AD, 72AD, or 73AD Work Experience	2-4
<b>TOTAL UNITS</b>	<b>13-15</b>

Note: A letter grade of "C" or better is required in each course, and a cumulative GPA of at least 3.0 must be maintained. All courses must be completed within 5 years.

#### Application Developer Certificate

<b>REQUIRED COURSE</b>	<b>UNITS</b>
†CBIS 6A Intro to IT Concepts & Applications	4
†CBIS 7 Business Programming Logic & Design	3.5
†CBIS 6B Intermediate Business Applications	3
†CBIS 6C Advanced Business Applications	3
†CBIS 8B Visual Basic Programming	4
†CBIS 71AD Work Experience	2
<b>TOTAL UNITS</b>	<b>19.5</b>

**Information Security Certificate**

REQUIRED COURSE	UNITS
CBIS 41 Networking Fundamentals	3
†CBIS 220 i-Net+ Internet Technologies	3
†CBIS 270 Introduction to Information Security	1
†CBIS 271 Network Security Fundamentals	3
<b>TOTAL UNITS</b>	<b>10</b>

**Recommended but not required course(s):**

CBIS 223 Unix/Linux Fundamentals	3
CBIS 225 MS Windows Client OS	2.5
†CBIS 226 MS Windows Server OS	2.5
†CBIS 227 MS Windows Networking	2.5
†CBIS 235A Linux Server Administration	3.5
†CBIS 235B Linux Networking & Security	3.5

**Java Web Programmer Certificate**

REQUIRED COURSES	UNITS
†CBIS 7 Business Programming Logic & Design	3.5
†CS 21 Introduction to Computer Science I	3.5
CBIS 38 Database Concepts	4
CBIS 220 i-Net+ Internet Technologies	3
†CBIS 207E Dynamic HTML Web Construction	2.5
<b>TOTAL UNITS</b>	<b>16.5</b>

**Microsoft Windows System Administration Certificate**

REQUIRED COURSES	UNITS
†CBIS 225 Microsoft Windows Client OS	2.5
†CBIS 226 Microsoft Windows Server OS	2.5
†CBIS 227 Microsoft Windows Networking	2.5
†CBIS 228 Microsoft Windows Directory Services	2.5
<b>TOTAL UNITS</b>	<b>10</b>

**Web Construction Certificate**

REQUIRED COURSES	UNITS
CBIS 207AD Web Construction I	2
CBIS 220 i-Net+ Internet Technologies	3
†CBIS 207E Dynamic HTML Web Construction	2.5
<b>Take one of the following courses:</b>	
†CBIS 251 Introduction to ASP.NET	3.5
†CBIS 420 PHP & My SQL for the Web	3.5
†CBIS 430 Ruby on Rails Web Development	3.5
†CBIS 492 ST Interpretive Programming Languages	2.5
<b>TOTAL UNITS</b>	<b>10-11</b>

**RECOMMENDED, but not required courses:**

CBIS 6A Intro to IT Concepts & Applications	4
†CBIS 41 Networking Fundamentals	3

**Windows Network Administrator Certificate**

REQUIRED COURSES	UNITS
†CBIS 3 Operating Systems: Software and Hardware	3.5
†CBIS 41 Networking Fundamentals	3
†CBIS 212 Wireless Communications	1.5
†CBIS 225 Microsoft Windows Client OS	2.5
†CBIS 226 Microsoft Windows Server OS	2.5
†CBIS 227 Microsoft Windows Networking	2.5
<b>TOTAL UNITS</b>	<b>15.5</b>

**CULINARY ARTS****Associate in Science and/or Certificate of Achievement or Certificate of Accomplishment**

**Mission Statement:** The outcome of the Culinary Arts Program is to meet the needs of the universal culinary community by preparing students for entry-level employment as professional and competent culinarians.

**Outcomes:**

- Synthesize the thesis and practices to run a commercial kitchen.
- Produce for service a complete three (3) course meal.
- Demonstrate industry standards kitchen safety and sanitation practices.

This field of concentration is designed to acquaint the student with the business world in general. With additional course work, it can prepare students for either employment or further education. Students with definite career/educational goals are recommended to follow the appropriate curriculum guide for their specific field of concentration, such as Accounting or Business Administration (transfer), Marketing, Management, International Business, or Real Estate. This Certificate of Achievement will prepare students for an entry-level position in a variety of business settings and will serve as a foundation for specialization. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4502 or go to the department website @ <http://culinary.lbcc.edu>.

REQUIRED COURSES	UNITS
F_N 250 Nutrition for Culinary Arts	2
CULAR 20AD App Food Serv-Sanit in Hotel&Rstr Mgt	3
CULAR 200AD Introduction to Chocolate	1
CULAR 213A Food Preparation 1	11.5
†CULAR 213B Food Preparation 2	11.5
†CULAR 213C Food Preparation 3	11.5
†CULAR 271AD Work Experience: Food Services (2 Semesters/2units per semester)	4
<b>Subtotal Units</b>	<b>44.5</b>

**RECOMMENDED but not required courses:**

MATH 805 Modern Arithmetic	4
COMIS 1 Computer and Information Competency	1
CAOTC 45 Internet for Office and Personal Use	2
†CULAR 204 Introduction to Baking	5
†CULAR 205 Baking and Pastry I	5
†CULAR 206 Baking and Pastry II	5
CULAR 207 Commercial Cake Decorating	5

**CERTIFICATES OF ACCOMPLISHMENT:****Introduction to Chocolate Certificate**

REQUIRED COURSE	UNITS
CULAR 200AD Introduction to Chocolate	1
<b>TOTAL UNITS</b>	<b>1</b>

**Food Preparation 1 Certificate**

REQUIRED COURSE	UNITS
†CULAR 213A Food Preparation 1	11.5
<b>TOTAL UNITS</b>	<b>11.5</b>

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

<b>Food Preparation 2 Certificate</b>	
<b>REQUIRED COURSE</b>	<b>UNITS</b>
†CULAR 213B Food Preparation 2	11.5
<b>TOTAL UNITS</b>	<b>11.5</b>

<b>Food Preparation 3 Certificate</b>	
<b>REQUIRED COURSE</b>	<b>UNITS</b>
†CULAR 213C Food Preparation 3	11.5
<b>TOTAL UNITS</b>	<b>11.5</b>

<b>Food Service Sanitation Certificate</b>	
<b>REQUIRED COURSE</b>	<b>UNITS</b>
CULAR 20AD App Food Serv Sanit in Hotel&Rstr Mgmt3	3
<b>TOTAL UNITS</b>	<b>3</b>

## CUSTOMER SERVICE REPRESENTATIVE

### Certificate of Achievement and/or Associate in Arts or Certificate of Accomplishment

Please contact the department at (562) 938-4904 or go to the department website @ <http://caot.lbcc.edu> for information regarding the program.

## DANCE

### Associate in Arts

**Mission Statement:** Students completing our program should be fully prepared to move on to the next level of dance education.

**Outcomes:**

- A basic knowledge and experience of live performance synthesizing dance technique and creativity.
- A respect for dance as a means of personal, cultural, or social expression.

Students learn an appreciation of dance as an art form as well as instruction in dance technique, choreography and aesthetics. Students are also provided partial lower division preparation for transfer to a baccalaureate degree in this field. This Associate Degree will prepare students for careers in body therapies, dance, and teaching or dance studio operation. For more departmental information call (562) 938-4563 or 938-4383.

<b>REQUIRED COURSES (Semester 1)</b>	<b>UNITS</b>
DANCE 1 Dance Forms Through the Ages	3
DANCE 10AB Fundamental of Ballet	1
DANCE 14AB Beginning Modern Dance	1
DANCE 20AB Beginning Jazz Dance	1
<b>Subtotal Units (for Semester 1)</b>	<b>6</b>

<b>REQUIRED COURSES (Semester 2)</b>	<b>UNITS</b>
DANCE 10AB Fundamental of Ballet	1
DANCE 12AD Conditioning for Dance-Pilates Method	1
DANCE 14AB Beginning Modern Dance	1
DANCE 20AB Beginning Jazz Dance	1
*TART 1 Acting 1-Introduction to Acting	3

<b>Complete ONE of the following:</b>	
DANCE 3AD Musical Theatre Dance	1
DANCE 5AB Beginning Tap	1
DANCE 8AD Stretch and Relaxation	1
DANCE 19 Hip Hop Dance History	3
DANCE 33AD Dance Choreography Workshop	1
FILM 1 Intro to Film	3
<b>Subtotal Units (for Semester 2)</b>	<b>8-10</b>

<b>REQUIRED COURSES (Semester 3)</b>	<b>UNITS</b>
†DANCE 11AB Intermediate Ballet	1
DANCE 17AB Intermediate Modern Dance	1
†DANCE 21AB Intermediate Dance-Jazz	1
†DANCE 31AB Choreography I or	1
†DANCE 41/1 Dance Performance or	1
†DANCE 41/3 Dance Performance or	1.5
†DANCE 41AD Dance Performance	2
<b>Complete ONE (1) of the following:</b>	
TART 39AD Theatre Practicum	1
TART 40AD Stage Scenery	2
TART 42AD Stage Lighting	2
TART 43AD Costume Crafts	2
TART 44AB Costume Design	2
TART 47 Theatre Management	3
TART 55 Stage Makeup	2
<b>Subtotal Units (for Semester 3)</b>	<b>5.5-9</b>

<b>REQUIRED COURSES (Semester 4)</b>	<b>UNITS</b>
†DANCE 11AB Intermediate Ballet	1
DANCE 17AB Intermediate Modern Dance	1
†DANCE 21AB Intermediate Jazz Dance	1
†DANCE 32AB Choreography II	1
†DANCE 41AD Dance Performance	2
†DANCE 41/1 Dance Performance or	.5
†DANCE 41/2 Dance Performance or	1
†DANCE 41/3 Dance Performance or	1.5
†DANCE 41AD Dance Performance	2
<b>Complete ONE (1) of the following:</b>	
†DANCE 6AB Intermediate Tap	1
†DANCE 13AD Turns	1
DANCE 18AD Folk and Ethnic Dance	1
†DANCE 60AD Special Projects in Dance	1
<b>Subtotal Units (for Semester 4)</b>	<b>5.5-7</b>
<b>TOTAL UNITS</b>	<b>25-32</b>

## DATA ENTRY

### Certificate of Achievement and/or Associate in Arts or Certificate of Accomplishment

Please contact the department at (562) 938-4904 or go to the department website @ <http://caot.lbcc.edu> for information regarding the program.

## DIAGNOSTIC MEDICAL IMAGING SCIENCES (RADIOLOGIC TECHNOLOGY)

### Associate in Science and/or Certificate of Achievement or Certificate of Accomplishment

**Mission Statement:** The Diagnostic Medical Imaging Program at Long Beach City College is dedicated to providing high-quality education and clinical practicum to qualified students. It is responsive to the diverse needs of the local medical community. It specializes in the education and training that lead to entry-level employment as a competent, ethical health care professional, and an Associate of Science Degree. The program emphasizes the necessity of professional development and life-long learning.

**Outcomes:**

- Diagram the photographic and digital process and define the technical factors utilized in medical image formation.

- Distinguish the fundamental structure of matter, diagram the production of x-rays, and examine how different radiographic techniques effect the resultant image on a radiograph.
- Assess how radiation effects body systems, differentiate between different types of radiation and their effects on human tissue, and formulate ways to decrease exposure.
- Demonstrate ability to properly use all equipment required to produce a diagnostic radiograph, produce an industry standard and diagnostic radiograph.

This field of concentration is designed to prepare the student for Certification by the State Department of health Services, Radiological health Section, and Registration by the American registry of Radiological Technologists after testing. The AART is the national testing/registration body (www. ARRT.org). The end objective is to prepare students for employment as practicing medical imaging professionals in Acute Care Hospitals, Medical clinics and/or private offices. Note: An applicant should contact the ARRT to determine if he or she will be disqualified due to the conviction of a felony or misdemeanor. For additional departmental information call (562) 938-4169.

**Prerequisite Courses**

The following courses must be completed within five years prior to the first Spring Semester of the program:

REQUIRED COURSES	UNITS
*ANAT 41 Anatomy & Physiology	5
AH 60 Medical Terminology	3
AH 61 Integration of Patient Care	2
<b>TOTAL UNITS</b>	<b>10</b>

**FIRST YEAR**

**Spring Semester REQUIRED COURSES:**

†DMI 10 Introduction to Radiologic Technology	3
†DMI 403 Cross Sectional Anatomy	3
<b>Subtotal Units</b>	<b>6</b>

**Summer Session REQUIRED COURSES:**

†DMI 20 Introduction to Radiologic Physics	3
<b>Subtotal Units</b>	<b>3</b>

**Fall Semester REQUIRED COURSES:**

*^General Ed. Course (see explanation in footnote)	3
*^General Ed. Course (see explanation in footnote)	3
Computer Class. Any class which satisfies computer portion of Information Competency Requirement for graduation. Recommended course: COMIS 1. For complete listing see General Education Course Pattern Guide.	1-4
†DMI 11 Radiographic Techniques	1
†DMI 12 Contrast Fluoroscope/Radiographic Procedure	3
†DMI 21 Applied Radiological Physics	2
†DMI 30 Positioning for General Diagnostic Radiography	3
†DMI 40A Clinical Radiography	2.5
<b>Subtotal Units</b>	<b>18.5-21.5</b>

**Spring Semester REQUIRED COURSES:**

†*DMI 60 Radiologic Pathology	3
†DMI 24 Radiation: Biology & Protection	3
†DMI 31 Positioning for Cranial Radiography	3
†DMI 40B Clinical Radiography	6
<b>Subtotal Units</b>	<b>15</b>

**SECOND YEAR**

**Summer Session REQUIRED COURSES:**

† DMI 40C Clinical Radiography	6
<b>Subtotal Units</b>	<b>6</b>

**Fall Semester**

*^General Ed. Course (see explanation in footnote)	3
†DMI 222 Venipuncture	1
†DMI 15 Computer Applications in Radiology	3
†DMI 40D Clinical Radiography	11
<b>Subtotal Units</b>	<b>18</b>

**Spring Semester REQUIRED COURSES:**

*^ General Ed. Course (see explanation in footnote)	3
†DMI 14 Trends & Self-Assessment. in Rad. Tech.	3
†DMI 40E Clinical Radiography	11
†DMI 61 Fluoroscopy	2
<b>Subtotal Units</b>	<b>19</b>
<b>TOTAL UNITS (in program)</b>	<b>85.5-88.5</b>
<b>TOTAL UNITS (including Prerequisite)</b>	<b>95.5-98.5</b>

**RECOMMENDED but not required courses:**

†DMI 62 Mammography	3.5
LEARN 11 Learning and Academic Strategies	2

**CERTIFICATES OF ACCOMPLISHMENT:**

**Radiologic Technology Fluoroscopy Permit Certificate**

(Must be licensed CRT or in Second Year of Diagnostic Medical Imaging Program)

REQUIRED COURSE	UNITS
†DMI 61 Fluoroscopy	2
<b>TOTAL UNITS</b>	<b>2</b>

**Magnetic Resonance Imaging Technologist Certificate**

REQUIRED COURSE	UNITS
†DMI 401 Physical Principles of Magnetic Resonance Imag.	3
†DMI 402 MR Imaging Procedures	3
†DMI 403 Cross-Sectional Anatomy	3
†DMI 404 CT/MRI Pathology	3
†DMI 405AB CT/MRI Clinical Practicum	2.5
<b>TOTAL UNITS</b>	<b>14.5</b>

^ Specific General Education courses required: † ENGL 1 or 105, Sp 10, 20 or 30, Psych 1, Humanities (any course that meets the Associate Degree requirement) and 1 unit of P.E (two half-unit (.5) P.E. courses).

**DIESEL MECHANICS**

**Certificate of Achievement and/or Associate in Science**

**Mission Statement:** The Program Mission Statement is not available for the *Diesel Mechanics* program. Please contact the department for additional information.

This field of concentration is designed to acquaint the student with the business world in general. With additional course work, it can prepare students for either employment or further education. Students with definite career/educational goals are recommended to follow the appropriate curriculum guide for their specific field of concentration, such as Accounting or Business Administration (transfer), Marketing, Management, International Business, or Real Estate. This Certificate of Achievement will prepare students for an entry-level position in a variety of business settings and will serve as a foundation for specialization. This Associate Degree

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.



will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-3071 or 938-3054.

**OPTION 1: General**

REQUIRED COURSES	UNITS
CAOTC 211 Discovering Computers	1
CAOTT 233 Computer Keyboarding	1
DIESL 391B Heavy Equipment Electrical Systems	5
AMECH 424 Automotive Air Conditioning	3
DIESL 281 Detroit Diesel Engines	10
DIESL 282 Cummins Four Cycle Engine	10
†DIESL 283 Powered Systems	10
†DIESL 284 Highway Transport	10
<b>TOTAL UNITS FOR OPTION 1</b>	<b>50</b>

**OPTION 2: Caterpillar**

REQUIRED COURSES	UNITS
CAOTC 211 Discovering Computers	1
CAOTT 233 Computer Keyboarding	1
DIESL 391B Heavy Equipment Electrical Systems	5
AMECH 424 Automotive Air Conditioning	3
DIESL 289 Caterpillar 3406 & 3116 Engine	10
DIESL 290 C.A.T Transmissions & Final Drive	10
DIESL 291 C.A.T Hydraulics	10
DIESL 292 C.A.T Chassis & Electrical	10
<b>TOTAL UNITS FOR OPTION 2</b>	<b>53</b>

**RECOMMENDED Courses but not required:****For Option 1:**

WELD 400AD Welding (General)	2
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**For Option 2:**

WELD 460AD Welding (Acetylene Gas)	2
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**DIETETICS PROGRAM****Dietetic Service Supervisor/Nutrition Assistant****Associate in Arts and/or Certificate of Achievement**

**Mission Statement:** The mission of the Dietetics Program at Long Beach City College is the development of the student competency to provide nutritional care services in food service management and clinical nutrition care.

**Outcomes:**

- Synthesize the theory and principle of clinical nutrition care.
- Manage a Healthcare Kitchen to industry standards.
- Develop and conduct a nutrition presentation within a community agency as identified by the American Dietetic Association.

This program is designed to train students to be employed as Dietetic Service Supervisors and Nutrition Assistants who function as managers/supervisors and nutritional care specialists in health care and nutrition related facilities.

**DIETETIC SERVICE SUPERVISOR:**

The Dietetic Service Supervisor is the food service director of a health care facility, is a member of the dietetic team, functioning under the supervision of a Registered Dietitian or administrator. This program is the state approved program meeting federal OBRA and Title 22 requirements of the California State Licensing

Regulation for food service supervisors in general acute care hospitals, acute psychiatric hospitals, skilled nursing facilities, rehabilitation and convalescent hospitals, and intermediate care facilities. Completers are also employed in community nutrition agencies, school lunch, adult and child nutrition programs. Upon successful completion of the program, the student is eligible to apply for a Dietetic Service Supervisor Certificate. The student may also receive the Associate in Arts degree if the graduation requirements are completed.

**NUTRITION ASSISTANT:**

The Nutrition Assistant is a member of the dietetic health care team, functioning under the direction of a Registered Dietitian. The program instructs the student in nutritional care, teaching techniques, nutrition principles, diet modification, nutritional counseling and food service management. Nutrition Assistants are trained to function as nutritional care specialists in the dietary departments of hospitals, clinics and other health care facilities. Completers are also employed in long-term care, public health settings, child & elder care nutrition programs, weight management programs, W.I.C. and in food service management. For the Nutrition Assistant Program, students must fulfill the Associate Degree requirements (by completing the Certificates of Achievement for both the Dietetic Service Supervisor and the Nutrition Assistant programs and the graduation requirements). The students will then have earned both the Associate Degree and the TWO Certificate of Achievements. For further information, please call (562) 938-4550 or 938-4193.

**DIETETIC SERVICE SUPERVISOR PROGRAM**

REQUIRED COURSES	UNITS
F_N 20 Nutrition & Life	3
F_N 21 Food Selection & Meal Preparation	4
F_N 224 Sanitation, Safety and Equipment	3
F_N 225 Intro. Food Service/Work Organization	3
F_N 227 Supervision and Training Techniques	3
F_N 228 Food Production Management	3
F_N 230AC Clinical Field Exp. I (2 semesters required)	4
F_N 231 Menu Planning and Food Purchasing	3
†F_N 232 Therapeutic Diets	3
<b>TOTAL UNITS</b>	<b>29</b>

**NUTRITION ASSISTANT PROGRAM**

REQUIRED COURSES	UNITS
†F_N 234 Advanced Nutrition Care	3
F_N 235 Advanced Medical Nutrition Therapy	3
†F_N 236 Dietetic Seminar	1
F_N 240AC Clinical Field Exp II (2 semesters required)	4
<b>Subtotal Units</b>	<b>11</b>
<b>Subtotal Units (Courses from Dietetic Service Supervisor Program)</b>	<b>29</b>
<b>TOTAL UNITS</b>	<b>40</b>

**RECOMMENDED but not required courses:**

F_N 26 Nutrition for the Active Person	1
F_N 233 Special Topics in Health Care Dietetics	1
F_N 250 Nutrition for Culinary Arts	2
F_N 253 Food Handler Certification	1
F_N 255C Nutrition for Adults & Aging	1
F_N 255D Vegetarian Lifestyle	1
F_N 256 Weight Control & Energy Balance	2
F_N 260AD or 361AD Cultural Foods	1.5 or .5
F_N 261AD or 361AD Creative Cooking	1 or .5

F\_N 262AD or 362AD Meal Preparation for 1 & 2  
Persons OR Cooking for Singles 1.5 or .5

## DIGITAL DESIGN AND PUBLICATION

### Associate in Arts/Certificate of Achievement

**Mission Statement:** The desktop/media publishing program trains students to write, design, and produce a variety of publications on different computer platforms. The program prepares students to work in office environments involving desktop publishing or to work on a free-lance basis.

**Outcomes:**

- Write, design, and produce a publication.
- Prepare students for entry-level position in desktop publishing.

Students learn to write, design, and produce publications (websites, fliers, brochures, newsletters, in-house magazines) using computer publishing techniques. The program prepares students to work on websites, newspapers, magazines, in advertising agencies or in other environments involving digital design and publication or to work on a free-lance basis. For successful employment, you should be able to type 30+ words a minute, write with a proficiency equal to placement in ENGL 1, and have a basic understanding of the principles of color and design theory. This Certificate of Achievement prepares students for an entry-level position in a variety of business settings and serves as a foundation for specialization. This Associate degree prepares students for career advancement once a certificate has been earned. Appropriate course selection also facilitates transfer in a related major. For more information regarding: Journalism classes call (562) 938-4282 or 938-4036 or email pmckean@lbcc.edu or search for journalism at <http://www.lbcc.edu>.

REQUIRED COURSES	UNITS
JOURN 1A Intro to Digital Design and Publication	3
JOURN 25 Free-Lance Writing	3
<b>Subtotal Units</b>	<b>6</b>

**IN ADDITION, Complete TWELVE (12) units from the following courses:**

JOURN 1B Intro to Digital Design and Publication	3
JOURN 5 Introduction to Public Relations	3
JOURN 6AD Magazine Writing	3
†JOURN 20 Beginning Newswriting and Reporting	3
JOURN 80AD Multimedia Newsroom	4
JOURN 85AD Multimedia Editor Training	4
<b>Subtotal Units</b>	<b>12</b>
<b>TOTAL UNITS</b>	<b>18</b>

## DRAFTING - ARCHITECTURAL (Occupational Program)

### Associate in Science/Certificate of Achievement

**Mission Statement:** To create an educational environment where students can achieve their individual goals by providing the necessary knowledge and skills to enter the design field of their choice by using the latest technologies and industry trends.

**Outcomes:**

- Students develop career awareness, planning, employability skills, work habits, and foundation knowledge necessary for success in the workplace.
- Students will be able to establish mastery of basic knowledge and skills and apply advanced technologies relevant to entering the architectural drafting and design field at an entry or advanced level.
- Students possess the necessary technical knowledge and communication skills to identify, articulate and solve problems pertaining to the built environment and perform tasks required within the architecture and/or environmental design professions.

Students learn entry-level job skills in architectural drafting. The Advanced Skills Certificate of Achievement will prepare students for an advanced position as an architectural drafter or senior draftsman in a variety of design professional settings and will serve as a foundation for specialization. This Associate Degree will prepare students for a design-related career. For more departmental information call (562) 938-4718 or (562) 938-4467.

REQUIRED COURSES	UNITS
ARCHT 60 Architectural Design or	8
ARCHT 61 Architectural Design	4
<b>and</b>	
ARCHT 62 Architectural Design	4
†ARCHT 64 Architectural Design or	8
†ARCHT 65 Architectural Design	4
<b>and</b>	
†ARCHT 66 Architectural Design	4
†ARCHT 70AB Architectural Design or	8
†ARCHT 71AD Architectural Design	4
<b>and</b>	
†ARCHT 71AD Architectural Design	4
<b>TOTAL UNITS</b>	<b>24</b>

### CERTIFICATE: Core Skills

REQUIRED COURSES	UNITS
ARCHT 60 Architectural Design or	8
ARCHT 61 Architectural Design	4
<b>and</b>	
ARCHT 62 Architectural Design	4
†ARCHT 64 Architectural Design or	8
†ARCHT 65 Architectural Design	4
<b>and</b>	
†ARCHT 66 Architectural Design	4
ARCHT 230 Modeling (Beginner)	3
<b>TOTAL UNITS</b>	<b>19-20</b>

### CERTIFICATE: Advanced Skills

REQUIRED COURSES	UNITS
ARCHT 60 Architectural Design or	8
ARCHT 61 Architectural Design	4
<b>and</b>	
ARCHT 62 Architectural Design	4
†ARCHT 64 Architectural Design or	8
†ARCHT 65 Architectural Design	4
<b>and</b>	
†ARCHT 66 Architectural Design	4
†ARCHT 70AB Architectural Design or	8
†ARCHT 71AD Architectural Design	4

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

<b>and</b>	
†ARCHT 71AD Architectural Design	4
ARCHT 230 Modeling (Beginner)	3
<b>Subtotal Units</b>	<b>27-28</b>

**IN ADDITION, complete SIX (6) units from the following:**

†CARP 311 Carpentry 1 <b>or</b>	3
CARP 312 Carpentry 2 <b>or</b>	3
ELECT 261 Intro to Renewable Energy	3
CARP 440 Blueprint Reading for Construction Trade	3
<b>Subtotal Units</b>	<b>6</b>

**IN ADDITION, complete THREE -FOUR (3-4) units from the following:**

†*ELECT 202 Electrical Mathematic	3
<b>Or</b>	
MATH 805 Modern Arithmetic	3
*A more advanced level of Mathematics	
<b>Subtotal Units</b>	<b>3-4</b>
<b>TOTAL UNITS</b>	<b>36-38</b>

**Recommended Courses but not required:**

DRAFT 203AD AutoCAD II, Adv. Concepts <b>or</b>	3
†DRAFT 204 3D Visualization/Animation	4

## DRAFTING - Mechanical Design (Occupational Program)

**Associate in Science/Certificate of Achievement or  
Certificate of Accomplishment**

**Mission Statement:** To create an educational environment where students can achieve their individual goals by providing the knowledge and skills to enter the design field of their choice by using the latest technologies and industry trends.

**Outcomes:**

- Students develop career awareness, planning, employability skills, work habits, and foundation knowledge necessary for success in the workplace.
- Students will be able to establish mastery of basic knowledge and skills and apply advanced technologies relevant to entering the Mechanical drafting and design field at an entry or advanced level
- Students possess the necessary technical knowledge and communication skills to identify, articulate and solve problems pertaining to the industrial manufacturing environment and perform tasks required within the mechanical design drafting professions.

Students learn entry-level job skills in mechanical drafting and design. The Associate Degree will prepare students for a mechanical-design-related career, and appropriate course selection will facilitate transfer to a professional degree program. The Core Skills Career Certificate will prepare students for an entry-level position as a mechanical drafter trainee in a variety of design professional settings and will serve as a foundation for specialization. The Advanced Skills Career Certificate will prepare student for an advanced position as a mechanical drafter or intermediate level drafting position in a variety of design professional settings and will serve as a foundation for specialization. For more departmental information call (562) 938-4718 or (562) 938-4467.

**Complete a MINIMUM of TWENTY (20) UNITS**

<b>from:</b>	<b>UNITS</b>
†DRAFT 51A Industrial Drafting I	3
†DRAFT 51B Industrial Drafting II	3
†DRAFT 52A Advanced Industrial Drafting	3
†DRAFT 52AB Descriptive Geometry	3
DRAFT 60 Geometric Dimension & Tolerancing	3
DRAFT 201 Introduction to Drafting	4
DRAFT 202AD AutoCAD I, Fundamentals	3
†DRAFT 203AD AutoCAD II, Advanced Concepts	3
<b>TOTAL UNITS</b>	<b>20</b>

**CERTIFICATE: Core Skills**

<b>REQUIRED COURSES: Complete EIGHTEEN (18) UNITS from:</b>	<b>UNITS</b>
†DRAFT 51A Industrial Drafting I	3
†DRAFT 51B Industrial Drafting II	3
†DRAFT 52A Advanced Industrial Drafting	3
†DRAFT 52B Descriptive Geometry	3
DRAFT 60 Geometric Dimension & Tolerancing	3
DRAFT 201 Introduction to Drafting	4
DRAFT 202AD AutoCAD I, Fundamentals	3
†DRAFT 203AD AutoCAD II, Advanced Concepts	3
<b>TOTAL UNITS</b>	<b>18</b>

**CERTIFICATE: Advanced Skills**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
†DRAFT 51A Industrial Drafting I	3
†DRAFT 51B Industrial Drafting II	3
†DRAFT 52A Advanced Industrial Drafting	3
†DRAFT 52B Descriptive Geometry	3
DRAFT 60 Geometric Dimension & Tolerancing	3
DRAFT 201 Introduction to Drafting	4
DRAFT 202AD AutoCAD I, Fundamentals	3
DRAFT 203AD AutoCAD II, Advanced Concepts	3
DRAFT 204 3D Visualization/Animations	4
<b>Subtotal Units</b>	<b>29</b>

**IN ADDITION, complete THREE - FIVE (3-5) UNITS from the following:**

†*MATH 805 Modern Arithmetic	3
<b>Or</b>	
†*A more advanced level of Mathematics	3-5
<b>Subtotal Units</b>	<b>3-5</b>
<b>TOTAL UNITS</b>	<b>32-34</b>

**RECOMMENDED course but not required:**

DRAFT 273AD Work Experience-Mechanical Design	4
TEC 60AD Computer Aided Design & Drafting	3

**CERTIFICATES OF ACCOMPLISHMENT:**

**AutoCAD I, Fundamentals Certificate (108 Hrs)**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
DRAFT 202AD AutoCAD I, Fundamentals	3
<b>TOTAL UNITS</b>	<b>3</b>

**AutoCAD II, Advanced Certificate (108 Hrs)**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
DRAFT 203AD AutoCAD II, Advanced Concepts	3
<b>TOTAL UNITS</b>	<b>3</b>

**AutoCAD III, Visualization, Rendering, Animation  
Certificate (108 Hrs)**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
DRAFT 204 3D Visualization/Animation	4
<b>TOTAL UNITS</b>	<b>4</b>

**CAD Professional Certificate (324 Hrs)**

REQUIRED COURSES	UNITS
DRAFT 202AD AutoCAD 1, Fundamentals	3
DRAFT 203AD AutoCAD II, Advanced Concepts	3
DRAFT 204 3D Visualization/Animation	4
<b>TOTAL UNITS</b>	<b>10</b>

**3D Studio MAX-Modeling Technician Certificate (324 Hrs)**

REQUIRED COURSES	UNITS
DRAFT 251AD 3D Modeling for Technical Animation	3
<b>TOTAL UNITS</b>	<b>3</b>

**3D Studio MAX-Texture & Lighting Technician Certificate (108 Hrs)**

REQUIRED COURSES	UNITS
DRAFT 252AD Texture/Lighting-Tech Animation	3
<b>TOTAL UNITS</b>	<b>3</b>

**3D Studio MAX-Animation Technician Certificate (108 Hrs)**

REQUIRED COURSES	UNITS
DRAFT 253AD 3D Technical Animation & Production	3
<b>TOTAL UNITS</b>	<b>3</b>

**3D Studio MAX-Technical Design Animator Certificate (324 Hrs)**

REQUIRED COURSES	UNITS
DRAFT 251AD 3D Modeling for Technical Animation	3
DRAFT 252AD Texture/Lighting-Technical Animation	3
DRAFT 253AD 3D Technical Animation & Production	3
<b>TOTAL UNITS</b>	<b>9</b>

**ELECTRICAL TECHNOLOGY****Certificate of Achievement and/or Associate in Science or Certificate of Accomplishment**

**Mission Statement:** The mission of the Electrical Department is to educate its students in all areas of Industrial Electrical Technology in response to the needs of industry National Electrical Code standards.

**Outcomes:**

- Analyze different types of power distribution systems and apply these systems in a design environment.
- Design commercial building blueprint design project applying motor, transformer, power distribution, short-circuit calculations, and lighting systems meeting all the requirements of the National Electrical Code.

Students prepare for entry-level employment in numerous electrical and electrically related trades. Upon completion of the Electrical Technology program, the student will be able to install, maintain, and repair electrical equipment and systems in a safe and workmanlike manner. The California Contractor's License requirements recognize the courses listed below as partial fulfillment of the experience requirements. This program also meets the standards set by the California Department of Apprenticeship Standards towards the current California Electrician Certification testing. Once a student has completed the program, that student will be allowed to register to take the Electrician's Certification Exam. For more departmental information call (562) 938-4505 or go to the department website at <http://elect.lbcc.edu>.

**DAY PROGRAM**

REQUIRED COURSES	UNITS
ELECT 253 OSHA Standards for Construction Safety	2
ELECT 200A First Semester Industrial Electricity	8
†ELECT 225 Algebra & Trigonometry for Electricians	4
†ELECT 200B Second Semester Industrial Electricity	8
†ELECT 200C Third Semester Industrial Electricity	8
†ELECT 435A Electrical Motor Control 1	2
†ELECT 200D Fourth Semester Industrial Electricity	8
<b>Subtotal Units</b>	<b>40</b>

**IN ADDITION, complete FIVE (5) UNITS from the following courses:**

	UNITS
CISCO 250 Network Cabling Installation	3
CISCO 251 Introduction to Networking	3
ELECT 41 Technical Applications of Minicomputers	2
ELECT 224 Electrical Motors and Transformers	3
†ELECT 226 Solid State Fundamentals for Electricians	4
†ELECT 227 D.C. Variable Speed Drives	3
†ELECT 229 Industrial Drive Systems	3
ELECT 230A Robotics Technology-Design	3
ELECT 230B Robotics Technology- Integration	3
ELECT 230C Robotics Technology-Applications	3
†ELECT 242 Electrical Code-Grounding	1.5
ELECT 261 Introduction to Renewable Energy	3
†ELECT 262 Solar 1- Grid-Tied Solar Photovaltics	3
†ELECT 263 Solar 2- Advanced Solar Photovaltics	3
ELECT 271 Electrical Cost Estimating	3
ELECT 275 Electrical Pipe Bending (A)	.5
†ELECT 276 Electrical Pipe Bending (B)	.5
†ELECT 277 Blueprint Reading for Electricians	3
ELECT 280 Traffic Signals Systems 1	3
†ELECT 284 Traffic Signal Controllers & Digital Sys	3
ELECT 435B Electrical Motor Control 2	2
<b>Subtotal Units</b>	<b>5</b>
<b>TOTAL UNITS</b>	<b>45</b>

**NIGHT PROGRAM**

REQUIRED COURSES	UNITS
ELECT 202 Electrical Mathematics	3
ELECT 253 OSHA Standards for Construction Safety	2
+ELECT 204 Fundamentals of D.C. Electricity	3
+ELECT 210A Laboratory Practices 1	1
<i>(204 and 210A must be taken concurrently)</i>	
†ELECT 225 Algebra & Trigonometry for Technician	4
†ELECT 209 2 <sup>nd</sup> Sem Fundamentals of Motors and Generators	3
†ELECT 210B Laboratory Practices 2	1
<i>(209 and 210B must be taken concurrently)</i>	
†ELECT 240 Electrical Code – Residential	3
†ELECT 212 3 <sup>rd</sup> Sem Fundamentals of A.C. Electricity	3
†ELECT 210C Laboratory Practices 3	1
<i>(212 and 210C must be taken concurrently)</i>	
†ELECT 435A Electric Motor Control 1	2
†ELECT 214 4 <sup>th</sup> Sem A.C. Principles and Practices	3
†ELECT 210D Laboratory Practices 4	1
<i>(214 AND 210D must be taken concurrently)</i>	
†ELECT 245 Electrical Code – Commercial	3
†ELECT 250 Electrical Code – Industrial	3
†ELECT 242 Electrical Code - Grounding	1.5
<b>Subtotal Units</b>	<b>37.5</b>

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

**IN ADDITION, complete SEVEN & ONE HALF (7.5)**

<b>UNITS from the following courses:</b>	<b>UNITS</b>
CISCO 250 Network Cabling Installation	3
CISCO 251 Introduction to Networking	3
ELECT 41 Technical Applications of Minicomputers	2
ELECT 224 Electrical Motors and Transformers	3
†ELECT 226 Solid State Fundamentals for Electricians	4
†ELECT 227 D.C. Variable Speed Drives	3
†ELECT 229 Industrial Drive Systems	3
ELECT 230A Robotics Technology-Design	3
ELECT 230B Robotics Technology- Integration	3
ELECT 230C Robotics Technology-Applications	3
†ELECT 242 Electrical Code-Grounding	1.5
ELECT 261 Introduction to Renewable Energy	3
†ELECT 262 Solar 1- Grid-Tied Solar Photovoltaics	3
†ELECT 263 Solar 2- Advanced Solar Photovoltaics	3
ELECT 271 Electrical Cost Estimating	3
ELECT 275 Electrical Pipe Bending (A)	.5
†ELECT 276 Electrical Pipe Bending (B)	.5
†ELECT 277 Blueprint Reading for Electricians	3
ELECT 280 Traffic Signals Systems 1	3
†ELECT 284 Traffic Signal Controllers & Digital Sys	3
ELECT 435B Electrical Motor Control 2	2
<b>Subtotal Units</b>	<b>7.5</b>
<b>TOTAL UNITS</b>	<b>45</b>

**CERTIFICATES OF ACCOMPLISHMENT:****Network Cabling Specialist Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
CISCO 250 Network Cabling Installation	3
<b>TOTAL UNITS</b>	<b>3</b>

**Network Installation Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
CISCO 250 Network Cabling Installation	3
CISCO 251 Introduction to Networking	3
<b>TOTAL UNITS</b>	<b>6</b>

**Network Installation and Design Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
CISCO 250 Network Cabling Installation	3
CISCO 251 Introduction to Networking	3
CISCO 252 Routing and Access Control	3
CISCO 253 Cisco Networking III, LAN	3
<b>TOTAL UNITS</b>	<b>12</b>

**Traffic Signal Systems 1 Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
ELECT 280 Traffic Signals Systems 1	3
ELECT 284 Traffic Signal Controllers & Digital Sys	3
<b>TOTAL UNITS</b>	<b>6</b>

**Solar Photovoltaics Installation and Design Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
ELECT 261 Introduction to Renewable Energy	3
ELECT 262 Solar 1- Grid-Tied Solar Photovoltaics	3
ELECT 263 Solar 2- Advanced Solar Photovoltaics	3
<b>TOTAL UNITS</b>	<b>9</b>

**ENGINEERING****Associate in Science**

**Mission Statement:** The mission of Long Beach City College Engineering program is to foster an environment that both challenges and supports its students. The primary purposes of the educational program offered by the department are:

1. To prepare students for transfer to baccalaureate-granting institutions.
2. To nurture an appreciation of the role of engineering in life.
3. To support business and industry in economic development by providing a highly educated work-force.

We will aspire to excellence in teaching, a well-designed curriculum, and a supportive environment for all our students.

**Outcomes:**

- To serve students for the fulfillment of their own personal goals.
- To serve students to meet career/transfer requirements.

This field of concentration is designed to recognize partial fulfillment of the requirements for transfer with junior standing for students seeking a baccalaureate degree in engineering. This Associate Degree will facilitate transfer for a four-year engineering degree. Students who wish to transfer may need to meet additional requirements. For more departmental information call (562) 938-4168 or (562) 938-4428.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
†CHEM 1A General Chemistry	5
†ENGR 3B Engineering Graphics	3
†ENGR 17 Electrical Engineering Circuits	3
†ENGR 17L Electrical Engineering Circuits Lab	1
†ENGR 35 Statics	3
ENGR 50 Introduction to Engineering	1
ENGR 54 Computer Methods/C++	3
†ENGL 1 Reading and Composition	4
†MATH 80 Third Calculus Course	5
†PHYS 3A Physics for Sci. & Engr.-Mechanics	5
†PHYS 3B Physics for Sci. & Engr.-E & M	4
<b>Subtotal Units</b>	<b>37</b>

**ENGLISH****Language & Literature; Creative Writing****Associate in Arts**

**Mission Statement:** The English Department affirms the college's commitment to the belief that reading and writing are central to any student's education. Writing is a fundamental means of developing critical thinking, communicating ideas, comparing cultures, understanding experiences, arguing positions, reevaluating beliefs, celebrating creativity, and exploring the limits of the self. Our aim is to offer students not only a chance to build specific skills, but also the opportunity to experience the value of those skills in a context of challenging academic dialogue.

**Outcomes:**

- Write academic prose with a clear purpose and effective logical, relevant support from sources.

- Develop and sustain a coherent interpretation of literature that acknowledges historical and cultural contexts.
- Compose poems and short works of fiction using various forms and techniques.

This field of concentration in the Language and Literature sequence prepares the student for baccalaureate study in English, Comparative Literature, and Liberal Arts. The Creative Writing sequence also prepares the student for possible publication. For more departmental information call (562) 938-4036 or go to the department website @ <http://lbcc.edu/english>.

**LANGUAGE & LITERATURE SEQUENCE**

REQUIRED COURSES	UNITS
†*ENGL 1 or 1H Reading and Composition	4
†ENGL 2 Introduction to Literature/Composition or ENGL 4 Critical Analysis of Literature	3
<b>Subtotal Units</b>	<b>7-8</b>

**IN ADDITION, complete TWELVE (12) UNITS from the following courses, of which EIGHT (8) units must be a year's survey sequence (English, American or West):**

†ENGL 41 American Literature I	4
†ENGL 42 American Literature II	4
†ENGL 44 or 44H Literature of Western World I	4
†ENGL 45 or 45H Literature of Western World II	4
†ENGL 46 Survey of British Literature I	4
†ENGL 47 Survey of British Literature II	4
<b>Subtotal Units</b>	<b>12</b>

**IN ADDITION, complete SIX (6) units of the following courses:**

†ENGL 3 or 3H Argumentative and Critical Writing	4
†ENGL 18 Detective and Crime Fiction	3
ENGL 24 College Grammar	3
†ENGL 30 Horror and Terror Fiction	3
†ENGL 32 Masterpieces of Asian Literature in English	3
†ENGL 33 Mythology	3
†ENGL 35 Interpreting the Short Story	3
†ENGL 36 The Novel	3
†ENGL 37 Science Fiction, Fantasy/Horror	3
†ENGL 38 Bible as Literature, Old Testament	3
†ENGL 39 Bible as Lit., Apocrypha & New Testament	3
†ENGL 43A Introduction to Shakespeare	3
†ENGL 43A Introduction to Shakespeare	3
†ENGL 48 or 48H Modern & Contemporary Literature	3
†ENGL 49 or 49H Film and Literature	3
†ENGL 79 ST Literature of Diversity	3

<b>Subtotal Units</b>	<b>6-8</b>
<b>TOTAL UNITS</b>	<b>25-28</b>

**CREATIVE WRITING SEQUENCE**

REQUIRED COURSES	UNITS
†*ENGL 1 or 1H Reading and Composition	4
†ENGL 2 Intro to Literature/Composition	3
ENGL 24 College Grammar	4
†ENGL 26 Creative Writing 1	3
<b>Subtotal Units</b>	<b>14</b>

**IN ADDITION, complete THREE (3) units from the following:**

†ENGL 27A Creative Writing 2: Poetry	3
†ENGL 27B Creative Writing 2: Fiction	3

†ENGL 27C Creative Writing 2: Biography, Autobiography	3
†ENGL 27D Creative Writing 2: Stage/Screen Writing	3
†ENGL 27E Creative Writing 2: The Novel	3
†ENGL 96 The Craft of Writing	3
†ENGL 97AD Writers' Workshop	3
<b>Subtotal Units</b>	<b>3</b>

**IN ADDITION, complete SIX (6) units from any of the courses listed above in either the Language & Literature Sequence or Creative Writing Sequence.**

<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>23</b>

**RECOMMENDED courses but not required:**

†ENGL 6AD Production of Literary Publications	3
ENGL 7 Editing a Literary Review	3
JOURN 25 Free Lance Writing	3

**FAMILY & CONSUMER STUDIES**

**Associate in Arts/Certificate of Achievement**

**Mission Statement:** The mission of the FACS program is to prepare individuals to balance personal, family, and work place responsibilities throughout the life cycle.

**Outcomes:**

- Develop skills and work place competencies needed for success in the work place.
- Analyze cultural forces and their effects on the individual and family.
- Evaluate and develop personal finance plans.

Students are provided lower division transfer classes for a bachelor's degree in Family and Consumer Sciences, and provide opportunities for developing skills and competencies for multiple roles of home, family and career. Students are advised to check with a four-year college/university for specific requirements for transfer. This Certificate of Achievement will prepare students for an entry-level position in any of the generalized fields of Family and Consumer Studies which include Child Development, Family & Consumer Studies, Fashion, Foods and Nutrition and Interior Design. For more departmental information call (562) 938-4550.

REQUIRED COURSES	UNITS
CDECE 47 Human Development	3
FACS 50 Consumer Awareness	3
FACS 64 Life Management	3
FACS 211AB College & Career Opportunities for Women (one semester)	3
FD 20 Introduction to Fashion Merchandising	3
F_N 20 Nutrition & Life	3
ID 1 Fundamentals of Interior Design	3
<b>TOTAL UNITS</b>	<b>21</b>

**RECOMMENDED COURSES but not required:**

†CDECE 66 Observation and Assessment DS3	3
FD 9 Clothing Selection	3
FD 10 Textiles, Fibers, and Fabrics	3
FD 24AB Beginning Sewing	1.5
F_N 21 Food Selection and Meal Preparation	4
F_N 252AD Cake Decorating and Sugar Cookery	1.5
F_N 260AD Cultural Foods or	1.5
F_N 360AD Cultural Foods	.5
F_N 262AD Meal Preparation for 1 & 2 Persons or	1.5

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

F_N 362AD Cooking for Singles	.5
FLO 286A Introduction to Floral Design-Fall Flowers	2
FLO 286B Introduction to Floral Design-Spring Flowers	2

## FASHION DESIGN

### Associate in Arts/ Certificate of Achievement

**Mission Statement:** The Program Mission Statement is not available for the *Fashion Design* program. Please contact the department for additional information.

#### Outcomes:

- Create an environment that promotes critical thinking, creativity, teamwork, soft skills, multicultural and global awareness and understanding of social organizational and technological systems.
- Provide educational opportunities in the field of fashion for career employment, advanced study & professional development.

Students prepare for entry-level jobs in fashion design, production & manufacturing. This program also provides partial lower division preparation for the baccalaureate degree in Fashion Design. This Certificate of Achievement will prepare students for an entry-level position in the apparel design and manufacturing industry. This Associate Degree will prepare students for career advancement once a certificate has been earned. Field of concentration selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4192 or 938-4336 or email dschaefer@lbcc.edu.

- ◆ FD 70AD must be taken concurrently with FD 71AD, 72AD or 73AD.

## ASSOCIATE DEGREE REQUIREMENTS

### ENTRY LEVEL CLASSES

REQUIRED COURSES	UNITS
FD 3 Intro to Careers in Design & Merchandising	2
FD 9 Clothing Selection	3
FD 36A Pattern Drafting I: Basic Block	1.5
FD 36B Pattern Drafting II: Pattern Manipulation	1.5
FD 37A Pattern Drafting I: Basic Sloper	1.5
FD 37B Pattern Drafting II: Sloper Manipulations	1.5
FD 214AB Quick Sketch Croquis Drawing <b>or</b>	2
FD 215AB Fashion Sketching I	2

#### Complete ONE (1) from the following:

FD 24AB Beginning Sewing (One semester)	1.5
FD 25AB Intermediate Sewing (One semester)	1.5
FD 26AB Advanced Sewing (One semester)	2

**Subtotal Units** 14.5-15

### INTERMEDIATE LEVEL CLASSES

REQUIRED COURSES	UNITS
FD 10 Textile Fibers and Fabrics	3
FD 20 Intro to Fashion Merchandising	3
FD 27AB Production Sewing (One Semester)	1.5
FD 32 History of Fashion	3
FD 38A Fashion Design I	3
FD 38B Fashion Design II	3
FD 245AD Computer Applications in Fashion	1.5
<b>Subtotal Units</b>	<b>18</b>
<b>TOTAL UNITS</b>	<b>32.5-33</b>

## CERTIFICATE OF ACHIEVEMENT

### REQUIREMENTS

#### ENTRY LEVEL CLASSES

REQUIRED COURSES	UNITS
FD 3 Intro to Careers in Design & Merchandising	2
FD 10 Textile Fibers and Fabrics	3
FD 36A Pattern Drafting I: Basic Block	1.5
FD 36B Pattern Drafting II: Pattern Manipulation	1.5
FD 37A Pattern Draping I: Basic Sloper	1.5
FD 37B Pattern Draping II: Sloper Manipulations	1.5
FD 200 Fashion Prediction/Promotion: Crit View	1
FD 214AB Quick Sketch Croquis Drawing <b>or</b>	2
FD 215AB Fashion Sketching I	2

#### Complete TWO (2) from the following:

FD 24AB Beginning Sewing (One semester)	1.5
FD 25AB Intermediate Sewing (One semester)	1.5
FD 26AB Advanced Sewing (One semester)	2
FD 29AB Tailoring	2

**Subtotal Units** 17-18

### INTERMEDIATE LEVEL CLASSES

REQUIRED COURSES	UNITS
FD 5 Intro. to Manufacturing Design & Merchandising	2
FD 9 Clothing Selection	3
FD 27AB Production Sewing (One Semester)	1.5
FD 32 History of Fashion	3
FD 38A Fashion Design I	3
FD 38B Fashion Design II	3
FD 41AD Fashion Show Production	2.5
FD 244AD Computer Patternmaking	1
FD 245AD Computer Apps. in Fashion 1(2 semesters)	3

#### Complete ONE (1) from the following:

FD 20 Intro to fashion Merchandising	3
IBUS 1 Intro to International Business	3

**Subtotal Units** 25

### ADVANCED LEVEL CLASSES

REQUIRED COURSES	UNITS
FD 38C Fashion Design III	3
FD 38D Fashion Design IV	3
FD 39A Garment Technical Packages	1
FD 40AB Advanced & Production Pattern Drafting	1.5
FD 216AB Fashion Portfolio Development (1semester)	2

#### Complete FOUR (4) UNITS from the following:

◆FD 70AD Work Experience Issues (One Semester)	1
◆FD 71AD, 72AD <b>or</b> FD 73AD Work Experience	1-3
FACS 364 Life Management	1

**Subtotal Units** 14.5

**TOTAL UNITS** 56.5-57.5

#### RECOMMENDED but not required courses for students interested in degree or certificate:

ART 1 <b>or</b> 2 Art & Civilization	3
ART 15 Beginning Drawing	3
ART 41 Intro to Computer Graphics	3
FD 23 Fashion/Merchandising Buying	3
FD 211AB Textile Design: Beading	1
FD 213AB Textile Design: Hand Painting	1
FD 258AD Swimwear	1
IBUS 20 Export-Import Business Practices	3
MKTG 40 Salesmanship	3
MGMT 80 Small Business Entrepreneurship	3

**FASHION DESIGN: PATTERNAKER  
CERTIFICATE OF ACHIEVEMENT  
REQUIREMENTS**

**ENTRY LEVEL CLASSES**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 3 Intro to Careers in Design/Merchandising	2
FD 10 Textile Fibers and Fabrics	3
FD 36A Pattern Drafting I: Basic Block	1.5
FD 36B Pattern Drafting II: Pattern Manipulation	1.5
FD 214AB Quick Sketch Croquis Drawing	2
<b>Complete ONE (1) course from the following:</b>	
FD 24AB Beginning Sewing (One semester)	1.5
FD 25AB Intermediate Sewing (One semester)	1.5
FD 26AB Advanced Sewing (One semester)	2
<b>Subtotal Units for Entry Level</b>	<b>11.5-12</b>

**INTERMEDIATE LEVEL CLASSES**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 5 Intro. To Manufacturing Design & Merchandising	2
FD 37A Pattern Draping I: Basic Sloper	1.5
FD 37B Pattern Draping II: Sloper Manipulations	1.5
FD 27AB Production Sewing (one semester)	1.5
FD 245AD Computer Applications in Fashion	1.5
FD 244AD Computer Patternmaking (Two Semesters)	2
<b>Subtotal Units for Intermediate Level</b>	<b>10</b>

**ADVANCED LEVEL CLASSES**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 38A Fashion Design I	3
FD 39A Garment Technical Packages	1
FD 40AB Advanced & Production Pattern Drafting	1.5
♦FD 70AD Work Experience Issues (One semester)	1
♦FD 73AD Vocational Work Experience (One semester)	3
<b>Subtotal Units for Advanced Level</b>	<b>9.5</b>
<b>TOTAL UNITS</b>	<b>31-31.5</b>
<b>RECOMMENDED but not required courses:</b>	
ART 1 or 2 Art & Civilization	3
ART 15AD Beginning Drawing	3
FD 20 Intro to Fashion Merchandising	3
FD 38B-D Fashion Design	3
FD 211AB Textile Design: Beading	1
FD 213AB Textile Design: Hand Painting	1
FD 258AD Swimwear	1

**FASHION DESIGN: SAMPLEMAKER  
CERTIFICATE OF ACHIEVEMENT  
REQUIREMENTS**

**ENTRY LEVEL CLASSES**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 3 Intro to Careers in Design/Merchandising	2
FD 5 Intro to Manufacturing for Design/Merchandising	2
FD 24AB Beginning Sewing (One semester)	1.5
FD 25AB Intermediate Sewing (One semester)	1.5
FD 244AD Computer Patternmaking or	1
FD 245AD Computer Applications in Fashion	1.5
<b>Subtotal Units</b>	<b>8-8.5</b>

**INTERMEDIATE LEVEL CLASSES**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 27AB Production Sewing (two semesters)	3
FD 36A Pattern Drafting I: Basic Block	1.5
FD 36B Pattern Drafting II: Pattern Manipulation	1.5
♦FD 70AD Work Experience Issues (One Semester)	1
♦FD 72AD or 73AD Vocational Work Experience	2-3
<b>Complete FOUR (4) units from:</b>	
FD 29AB Tailoring	2
FD 26AB Advanced Sewing (One Semester)	2
FD 258AD Swimwear	1
<b>Subtotal Units</b>	<b>13-14.5</b>
<b>TOTAL UNITS</b>	<b>21-22.5</b>

**RECOMMENDED but not required courses:**

ART 1 or 2 Art & Civilization	3
ART 15AD Beginning Drawing	3
FD 10 Textile Fibers and Fabrics	3
FD 20 Intro to Fashion Merchandising	3
FD 211AB Textile Design: Beading	1
FD 213AB Textile Design: Hand Painting	1
FD 214AB Quick Sketch/Croquis	2
FD 244AD Computer Patternmaking	1
♦ FD 70AD must be taken concurrently with FD71AD, 72AD or 73AD.	

**FASHION DESIGN  
ASSISTANT DESIGNER**

**Associate in Arts/ Certificate of Achievement**

**Mission Statement:** The Program Mission Statement is not available for the *Fashion Design: Assistant Designer* program. Please contact the department for additional information.

Students prepare for entry-level jobs in fashion design, production & manufacturing. This program also provides partial lower division preparation for the baccalaureate degree in Fashion Design. This Certificate of Achievement will prepare students for an entry-level position in the apparel design and manufacturing industry. This Associate Degree will prepare students for career advancement once a certificate has been earned. Field of concentration selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4192 or 938-4336 or email dschaefer@lbcc.edu.

**ASSOCIATE DEGREE REQUIREMENTS**

**ENTRY LEVEL CLASSES**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 3 Intro to Careers in Design & Merchandising	2
FD 10 Textile Fibers and Fabrics	3
FD 27AB Production Sewing (One Semester)	1.5
FD 36A Pattern Drafting I: Basic Block	1.5
FD 36B Pattern Drafting II Pattern Manipulation	1.5
FD 214AB Quick Sketch Croquis Drawing	2
FD 245AD Computer Applications in Fashion 1	1.5



**Complete TWO (2) of the following courses:**

FD 24AB Beginning Sewing (One semester)	1.5
FD 25AB Intermediate Sewing (One semester)	1.5
FD 26AB Advanced Sewing (One semester)	2
<b>Subtotal Units for Entry Level</b>	<b>16-16.5</b>

**IN ADDITION, complete the following INTERMEDIATE LEVEL course:**

FD 9 Clothing Selection	3
<b>Subtotal Units for Intermediate Level</b>	<b>3-4</b>
<b>TOTAL UNITS</b>	<b>19-19.5</b>

**CERTIFICATE OF ACHIEVEMENT  
REQUIREMENTS  
ENTRY LEVEL CLASSES**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 3 Intro to Careers in Design & Merchandising	2
FD 10 Textile Fibers and Fabrics	3
FD 27AB Production Sewing (One Semester)	1.5
FD 36A Pattern Drafting I: Basic Block	1.5
FD 36B Pattern Drafting II: Pattern Manipulation	1.5
FD 37A Pattern Draping I: Basic Sloper	1.5
FD 37B Pattern Draping II: Sloper Manipulations	1.5
FD 200 Fashion Prediction/Promotion: Crit View	1
FD 214AB Quick Sketch Croquis Drawing	2

**Complete TWO (2) of the following courses:**

FD 24AB Beginning Sewing (One semester)	1.5
FD 25AB Intermediate Sewing (One semester)	1.5
FD 26AB Advanced Sewing (One semester)	2
<b>Subtotal Units for Entry Level</b>	<b>18.5-19</b>

**IN ADDITION, complete the following INTERMEDIATE LEVEL courses:**

FD 5 Intro. To Manufacturing Design & Merchandising	2
FD 9 Clothing Selection	3
FD 38A Fashion Design I	3
FD 39A Garment Technical Packages	1
FD 244AD Computer Patternmaking	1
FD 245AD Computer Apps. in Fashion 1(2 semesters)	3
<b>Subtotal Units for Intermediate Level</b>	<b>13</b>

**IN ADDITION, complete the following ADVANCED LEVEL courses:**

FD 38B Fashion Design II	3
<b>Complete FOUR (4) UNITS from:</b>	
◆FD 70AD Work Experience Issues (One Semester)	1
◆FD 72AD or FD 73AD Vocational Work Experience	2-3
FD 216AB Fashion Portfolio Development	2
FACS 364 Life Management	1
<b>Subtotal Units for Advanced Level</b>	<b>7</b>
<b>TOTAL UNITS</b>	<b>38.5-39</b>

**RECOMMENDED but not required courses for students interested in degree or certificate:**

ART 1 or 2 Art & Civilization	3
ART 15AD Beginning Drawing	3
ART 31 Fundamentals of Art: Composition & Color	3
FD 20 Intro to Fashion Merchandising	3
FD 23 Fashion/Merchandising Buying	3
FD 211AB Textile Design: Beading	1
FD 213AB Textile Design: Hand Painting	1
FD 258AD Swimwear	1
◆ FD 70AD must be taken concurrently with FD 71AD, 72AD or 73AD.	

## FASHION MERCHANDISING

### Certificate of Achievement and/or Associate in Arts

**Mission Statement:** The mission of the Fashion Merchandising Program at LBCC is to provide students with discipline specific skills and knowledge leading to employment in fashion merchandising (retail or manufacturing) or the requisite foundation for transfer to a 4 year college or university.

**Outcomes:**

1. Synthesize the theory and principles of organizing and managing small and large retail stores.
2. Appraise in-stock and potential purchases using merchandise mathematics correctly to calculate open to buy, inventory control, retail pricing, markup and turnover.
3. Analyze and demonstrate merchandise planning and selection techniques.

Students prepare for careers in all phases of retailing and manufacturing in the growing California Fashion Industry. This program also provides lower-division preparation for the baccalaureate degree in Fashion Merchandising. This Certificate of Achievement will prepare students for an entry-level position in the apparel retailing, marketing and manufacturing industry. This Associate Degree will prepare students for career advancement once a certificate has been earned. Field of concentration selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4336 or email dschaefer@lbcc.edu.

### ASSOCIATE DEGREE REQUIREMENTS

#### ENTRY LEVEL CLASSES

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 3 Intro to Careers in Design/Merchandising	2
FD 5 Intro/Manufacturing for Design/Merchan	2
FD 9 Clothing Selection	3
FD 20 Intro to Fashion Merchandising	3
<b>Subtotal Units</b>	<b>10</b>

#### INTERMEDIATE LEVEL CLASSES

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 10 Textiles Fibers & Fabrics	3
FD 22A Merchandising for a Profit I	1.5
FD 22B Merchandising for a Profit II	1.5
FD 32 History of Fashion	3
<b>Subtotal Units</b>	<b>9</b>

#### ADVANCED LEVEL CLASSES

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 23 Fashion/Merchandise Buying	3
<b>Subtotal Units</b>	<b>3</b>
<b>TOTAL UNITS</b>	<b>22</b>

### CERTIFICATE OF ACHIEVEMENT REQUIREMENTS ENTRY LEVEL CLASSES

<b>REQUIRED COURSES</b>	<b>UNITS</b>
FD 3 Intro to Careers in Design/Merchandising	2
FD 5 Intro to Manufacturing for Design/Merchan	2
FD 9 Clothing Selection	3
FD 20 Intro to Fashion Merchandising	3
FD 200 Fashion Prediction/Promotion: Crit View	1

**Complete ONE (1) of the following courses:**

FACS 50 Consumer Awareness	3
FACS 64 Life Management	3
<b>Subtotal Units for Entry Level</b>	<b>14</b>

**INTERMEDIATE LEVEL CLASSES**

**REQUIRED COURSES**

FD 10 Textiles Fibers & Fabrics	3
FD 22A Merchandising for a Profit I	1.5
FD 22B Merchandising for a Profit II	1.5
FD 32 History of Fashion	3
FD 39 Garment Technical Packages	1
FD 41AD Fashion Show Production	2.5
FD 245AD Computer Applications in Fashion	1
MKTG 40 Salesmanship	3

**Complete ONE (1) of the following courses:**

FD 214AB Quick Sketch Croquis Drawing	2
FD 215AB Fashion Sketching I	2
<b>Subtotal Units for Intermediate Level</b>	<b>19</b>

**ADVANCED LEVEL CLASSES**

**REQUIRED COURSES**

FD 23 Fashion/Merchandise Buying	3
♦FD 70AD Work Experience Issues	1
♦FD 72AD or 73AD Work Experience	2-3
MKTG 41 Marketing Communications	3

**Complete ONE (1) of the following courses:**

IBUS 1 Introduction to International Business	3
IBUS 20 Export-Import Business Practices	3
<b>Subtotal Units for Advanced Level</b>	<b>12-13</b>

**TOTAL UNITS 45-46**

**RECOMMENDED but not required courses:**

FD 24AB Beginning Sewing	1.5
IBUS 52 International Marketing	3
CBIS 6A Intro to IT Concepts & Applications	4

♦ FD 70AD must be taken concurrently with FD 72AD or 73AD.

**FILM**

**Associate in Arts**

**Mission Statement:** Students completing our program should be fully prepared to move on to a more advanced level in a post-secondary institution or in the workforce.

**Outcomes:**

- Ability to synthesize lower-division level of principles and theories related to visual story telling using cinematic structure.
- A respect for film as a means of personal, cultural, or social expression synthesizing production technique and creative vision.

Students learn an appreciation of film as a medium of mass communication and with experiences in film production. It prepares students for entry-level employment in the film industry and provides partial lower division preparation for transfer to a baccalaureate degree in this field. The Associate Degree prepares students for entry-level employment in the film industry. For more departmental information call (562) 938-4563 or go to the department website @ <http://tdf.lbcc.edu>.

**REQUIRED ENTRY LEVEL COURSES**

FILM 1 Introduction to Film	3
FILM 10AD Explorations in Film	3
FILM 11AD Film Art and Artists	3
†FILM 20AB Fundamentals of Film Production	3
<b>Subtotal Units for Entry Level</b>	<b>12</b>

**INTERMEDIATE LEVEL CLASSES**

†FILM 21AB Intermediate Film Production (2 Semesters)	6
MUSIC 60AD Protocols (Digital Audio Recording/Edit)	2
R_TV 216AC Non-Linear Video & Film Editing	2
TART 32AD Stage and Screen Writing	3
<b>Subtotal Units for Intermediate Level</b>	<b>13</b>

**CHOOSE 4 Units from the following courses:**

†FILM 35AD Film Production Workshop	4
†FILM 60AD Special Projects in Film	1
PHOT 31AB Basic Photography: Black and White	3
PHOT 32A Basic Photography: Color	3
R_TV 4 Writing and Production Planning	3
R_TV 12 Television Lighting	2
R_TV 14AD Electronic Field Production	2
TART 1 Introduction to Acting	3
TART 40AD Stage Scenery	2
<b>Subtotal Units</b>	<b>4</b>
<b>TOTAL UNITS</b>	<b>29</b>

**RECOMMENDED but not required courses:**

ART 31 Fundamentals of Art/Composition & Color	3
ENGL 35 Interpreting the Short Story	3
ENGL 26 Creative Writing	3
PHOT 32AD Basic Photography-Color	3
PSYCH 11 Social Psychology	3
R_TV 35AD Music Video Production	2
SP 31 Elements of Leadership Communication	3
TART 25 Introduction to Theatre	3
TART 43AD Costume Crafts	3
TART 212A Acting in Film-Beginning	1.5

**FINE ARTS**

**Associate in Arts**

**Mission Statement:** Students completing our program should be fully prepared to move on to a more advanced level in a post-secondary institution.

**Outcomes:**

- Ability to synthesize the lower-division level of principles and theories expressed in the Fine Arts through Film, Theater, Dance, Music, Art, and Photography.
- A respect for Fine Arts as a means of personal, cultural, or social expression.

Students are provided with an introductory education in the fine arts. It also partially fulfills some of the lower division core for the Liberal Studies Bachelor's Degree and preparation for the Multiple Subjects Teaching Credential. It allows the student to gain proficiency in three areas of the arts, which can provide This Associate Degree prepares student for transfer to a four-year college. For more departmental information call (562) 938-4436.

<b><u>THEATRE: select a minimum of 3 units</u></b>	<b>UNITS</b>	<b>CORE</b>	
TART 25 Introduction to Theatre	3	<b>REQUIRED COURSES</b>	<b>UNITS</b>
TART 32AD Stage and Screen Writing	3	FIRE 1 Fire Protection Organization	3
TART 20 Introduction to Dramatic Literature	3	FIRE 2 Fire Prevention Technology	3
<b>Subtotal Units</b>	<b>3</b>	FIRE 3 Fire Protection Equipment & Systems	3
<b><u>DANCE: select a minimum of 3 units</u></b>	<b>UNITS</b>	FIRE 4 Building Construction	3
DANCE 1 Dance form Through the Ages	3	FIRE 5 Fire Behavior & Combustion	3
DANCE 19 Hip Hop Dance History	3	<b>Subtotal Units</b>	<b>15</b>
<b>Subtotal Units</b>	<b>3</b>	<b>IN ADDITION, complete NINE (9) units from the following courses:</b>	
<b><u>FILM: select a minimum of 3 units</u></b>	<b>UNITS</b>	FIRE 6A Fire Command 1A	2
FILM 1 Introduction to Film	3	FIRE 6B Fire Command 1B	2
FILM 10AD Exploration in Film	3	FIRE 7A Fire Prevention Officer 1A	2
FILM 11AD Film Art and Artists	3	FIRE 7B Fire Prevention Officer 1B	2
<b>Subtotal Units</b>	<b>3</b>	FIRE 7C Fire Prevention Officer 1C	2
<b><u>CREATIVE ARTS: select a minimum of 3 units</u></b>	<b>UNITS</b>	FIRE 10A Fire Instructor 1A	2
CART 41 The Arts and Modern Man	3	FIRE 10B Fire Instructor 1B	2
<b>Subtotal Units</b>	<b>3</b>	FIRE 16A Fire Investigator 1A	2
<b><u>MUSIC: select a minimum of 3 units</u></b>	<b>UNITS</b>	FIRE 16B Fire Investigator 1B	2
MUSIC 32 History of Jazz	3	FIRE 26A Command 2A	2
MUSIC 33B Intercultural Music	3	FIRE 26B Command 2B	2
MUSIC 40 Appreciation of Music	3	FIRE 40 Fire Management 1	2
MUSIC 89 History of Rock	3	FIRE 42A Fire Management 2A	2
<b>Subtotal Units</b>	<b>3</b>	FIRE 42B Fire Management 2B	2
<b><u>ART: select a minimum of 3 units</u></b>	<b>UNITS</b>	FIRE 53 Fire Hydraulics	3
ART 1 or 2 Introduction to Theatre	3	FIRE 54 Hazardous Materials 1	3
ART 3 Modern and Contemporary Art	3	FIRE 57 Intro. To Tactics and Strategy	3
ART 10 Art Appreciation	3	FIRE 58 Intro to Fire Company Administration	3
ART 31 Fundamentals of Art Composition & Color	3	FIRE 60 Fire Investigation 1	3
<b>Subtotal Units</b>	<b>3</b>	FIRE 61 Rescue Practices	3
<b><u>PHOTOGRAPHY: select a minimum of 3 units</u></b>	<b>UNITS</b>	FIRE 62 Fire Apparatus & Equipment	3
ART 81 Introduction to Fine Art Photography	3	FIRE 64 Hazardous Materials 2	3
<b>Subtotal Units</b>	<b>3</b>	FIRE 65 Fundamental of Fire Safety	3
<b>REQUIRED TOTAL UNITS</b>	<b>24</b>	FIRE 203 Fire Tools, Equipment & Related Technology	1
		FIRE 240AD Firefighter I Physical Agility	.5
		FIRE 242C Fire Management 2C	2
		FIRE 245 Marine/Fire Safety	2
		FIRE 250 Basic Fire Service Training	9
		FIRE 271AD or 272AD or 273AD Work Experience- Fire Science	2 or 3 or 4
		FIRE 400A-F Special Topics in Fire Science	1-5
		♦EMT 251 & 251L Emergency Medical Tech. & Lab	4.5
		PUBAD 1 Introduction to Public Administration	3
		<b>Subtotal Units</b>	<b>9</b>
		<b>TOTAL UNITS</b>	<b>24</b>

## FIRE SCIENCE

### Certificate of Achievement and/or Associate in Science

**Mission Statement:** Prepare students for careers in the fire service and enhance skills for those who are currently employed in that area.

#### Outcomes:

- Explore the history, development, structure, and functions of the American fire service.
- Apply prevention/protection/fire-fighting theories, principles, and concepts to address real-life situations in the field.
- Recognize the importance of and practice the safety behaviors in a professional fire service setting.
- Analyze, interpret, and evaluate prevention/protection/fire fighting theories, policies, practices, and procedures to develop strategies to prevent, control, and fight fires.

Students are educated and trained in the technical fields relating to fire and safety practices. This program also provides partial lower division preparation for the baccalaureate degree in this field. This Certificate of Achievement will prepare students for entry to a fire academy and for an entry-level position in private and public fire-related occupations. This Associate Degree will prepare students for entry to a fire academy and for career advancement for those already employed in a fire-related industry. For more departmental information call (562) 938-4338.

## FLORAL DESIGN

### Associate in Arts and/or Certificate of Achievement

**Mission Statement:** The mission of the floral design program is the development of student competency for employment as floral designers.

#### Outcomes:

- Knowledge and skills for acceptable floral displays: Develop foundational knowledge and skills for the design and production of industry acceptable floral displays.
- Work place competencies in floral design: Develop work place competencies needed for employment in the floral design field.
- Evaluation of floral art forms: Analyze, interpret and exercise critical judgment in the evaluation of floral artforms.

Students prepare for employment as floral designers. The Certificate of Achievement completer will also have the basic knowledge to become a salesperson, manager or owner of a floral shop. The certificate will help students prepare for AIFD certification. For more departmental information call (562) 938-4454 or 938-4336 or go to the department website @ <http://floraldesign.lbcc.edu>.

**ENTRY LEVEL CLASSES**

REQUIRED COURSES	UNITS
FLO 286A Introduction to Floral Design: Fall Flowers	2
FLO 286B Introduction to Floral Design: Spring Flowers	2
MGMT 80 Small Business Entrepreneurship <b>or</b>	3
MKTG 40 Salesmanship	3
<b>Subtotal Units</b>	<b>7</b>
<b>Complete FIVE (5) UNITS from the following:</b>	
ART 31 Fundamentals of Art/Composition & Color <b>or</b>	3
ID 30 Applied Color and Theory and Design	4
HORT 15A Basic Horticulture	2
*ID 70AD Work Experience Issues-Interior Design	1
*ID 71AD, 72AD or 73AD Work Experience	1, 2 or 3
<b>Entry Level Subtotal Units</b>	<b>12</b>

**INTERMEDIATE LEVEL CLASSES**

REQUIRED COURSES	UNITS
FLO 287A Intermediate Floral Design – Wedding	2
FLO 287B Intermediate Floral Design – Sympathy	2
FLO 287C Intermediate Floral Design–Banquet/Holiday	2
<b>Intermediate Level Subtotal Units</b>	<b>6</b>

**ADVANCED LEVEL CLASSES**

REQUIRED COURSES	UNITS
FLO 288 Advanced Floral Design	2
FLO 289 Applied Floral Shop Operation	3
<b>Advanced Level Subtotal Units</b>	<b>5</b>
<b>TOTAL UNITS</b>	<b>23</b>

- ◆ FD 70AD must be taken concurrently with FD 71AD, 72AD or 73AD.

**FOREIGN LANGUAGES**

**Associate in Arts and/or Certificate of Achievement**

**Mission Statement:** To offer formal transfer requirement courses in Chinese, French, German, Italian, Japanese, Spanish, and Vietnamese; to teach students to communicate effectively in a foreign language and appreciate culture; to promote international understanding and exchange; to provide a pool of students to fill positions in the community.

**Outcomes:**

- Students will demonstrate reading comprehension at the appropriate level in the target language.
- Students will demonstrate aural comprehension at the appropriate level in the target language.
- Students will formulate ideas orally at the appropriate level in the target language.
- Students will formulate ideas in writing at the appropriate level in the target language.

Students following the Proficiency Emphasis develop a competency in at least one foreign language, providing an important entry-level skill for those aspiring to work in the international arena as well as preparing for

*Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.*

baccalaureate work. The Language Certificate of Achievement (offered only in French, German, Japan and Spanish) verifies for a potential employer that the student can communicate (verbally and in writing) in a wide range of situations, for a variety of purposes at a designated level for effective communication in a business or related professional setting. This Associate Degree provides a level of competency than the certificate. The degree also offers an added dimension of cultural know-ledge and understanding in region(s) where the language is spoken. The degree would benefit those wishing to enter a variety of industries or business settings that compete in an international market, as well as preparing for transfer to a four-year university in a foreign language program. For more departmental information call (562) 938-4331 or go to the department website @ <http://foreignlanguage.lbcc.edu>.

**PROFICIENCY EMPHASIS**

**With Options in French, German, and Spanish at the Intermediate or Advanced Level**

For students who are studying French, German or Spanish and who want to achieve a level of competency for baccalaureate work, and/or to combine their foreign languages with another skill.

**Complete 15 units from ONE LANGUAGE (French, German or Spanish) and five additional units from the courses listed below:**

REQUIRED COURSES:	
Elementary Language 1 (CHIN, FREN, GER, ITAL, JAPAN, SPAN, or VIET)	5
†Elementary Language 2 (CHIN, FREN, GER, ITAL, JAPAN, SPAN, or VIET)	5
†Intermediate Language 3 (CHIN, FREN, GER, ITAL, JAPAN) <b>or</b>	5
SPAN 9 Spanish for Spanish Speakers	5
†Intermediate Language 4 (FREN, GER or SPAN) <b>or</b>	5
SPAN 10 Spanish for Spanish Speakers	5
†Advanced Language 25AD (FREN, GER or SPAN)	3
† Spoken Language (FREN, GER or SPAN)	2
<b>TOTAL UNITS</b>	<b>20</b>

**HORTICULTURE**

**Associate in Science/ Certificate of Achievement**

**Mission Statement:** The Program Mission Statement is not available for the *Horticulture* program. Please contact the department for additional information.

This field of concentration is designed to furnish students with knowledge of the entry-level skills necessary to embark upon a career in the horticulture industry. It includes emphasis on practical applications leading to career advancement. Also, it provides a partial lower division preparation for transfer to a baccalaureate degree program in this field. This Certificate of Achievement will prepare students for an entry-level position in a variety of horticulture/landscape/nursery industry positions and will serve as a foundation for specialization. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-3092.

REQUIRED COURSES	UNITS	Complete <i>FOUR-EIGHT (4-8)</i> units from the following:	UNITS
HORT 11A-D Plant Identification	3	HS 71AD Work Experience - Human Services	2
HORT 15A or 15B Basic Horticulture	2	HS 72AD Work Experience - Human Services	3
<b>Subtotal Units</b>	<b>14</b>	HS 73AD Work Experience - Human Services	4
<b>IN ADDITION, complete SIX (6) units from the following:</b>		<b>Subtotal Units</b>	<b>10-14</b>
† ♦HORT 271AD Work Experience – Horticulture	2	<b>IN ADDITION, Complete <i>TEN-FOURTEEN (10 -14)</i> units from any of the following courses, for a total of <i>24-28 UNITS (Emphasis on ONE GROUP is recommended:</i></b>	
† ♦HORT 272AD Work Experience - Horticulture	3		
† ♦HORT 273AD Work Experience - Horticulture	4		
<b>Subtotal Units</b>	<b>6</b>		
<b>IN ADDITION, complete TWENTY (20) units from the following courses:</b>			
BIO 5 Plant Biology	4	<b>GERONTOLOGY GROUP</b>	
COMIS 1 Computer Information Competency	1	F_N 20 Nutrition & Life	3
HORT 10A Greenhouse Management and Operation	4	HS 26 Intro to Gerontology	3
HORT 10B Greenhouse Management and Operation	4	HS 45 Stress Management for Case Managers	3
ΦHORT 15A or 15B Basic Horticulture	2	HS 253 Activity/Recreation Leadership Training	3
HORT 19 Turf Management	4		
HORT 21 Principles of Landscape Design	3	<b>CRIMINAL JUSTICE GROUP</b>	
HORT 26A Plant Propagation (S)	3	ADJUS 12 Crime & Delinquency	3
HORT 26B Plant Propagation (F)	3	ADJUS 14 Juvenile Law and Procedures	3
HORT 28A Horticulture Equipment Operation (Fall)	3	ADJUS 20 Intro to Corrections	3
HORT 28B Horticulture Equipment Operation (Spring)	3	HS 7 Introduction to Victimology	3
HORT 30 Integrated Pest Management	3	HS 40A Introduction to Addictive Behaviors	3
HORT 202AB Principles of Pruning	4	HS 40B Introduction to Addictive Behaviors	3
HORT 223AD Landscape Construction	4	HS 41 Introduction to Chemical Dependency	3
HORT 227 Interior Plant Design/Installation/Maint.	2	HS 43 Case Management: Treatment & Aftercare	3
HORT 430 Landscape Maintenance	4	HS 46 Physiology and Pharmacology of Drugs	3
FLO 286A Introduction to Floral Design-Fall Flowers	2	SOCIO 11 Race and Ethnic Relations in the U.S.	3
FLO 286B Introduction to Floral Design-Spring Flowers	2		
MGMT 80 Small Business Entrepreneurship	3	<b>GENERAL HUMAN SERVICES GROUP</b>	
CARP 245 Contracting Laws & Management	3	ECON 1A Macro Economics Analysis	3
<b>Subtotal Units</b>	<b>20</b>	HS 15 Social Welfare: People with Disabilities (F)	3
<b>TOTAL UNITS</b>	<b>40</b>	HS 40A Intro to Addictive Behaviors	3
		HS 40B Intro to Addictive Behaviors	3
		HS 43 Case Management: Treatment and Aftercare	3
		HS 45 Stress Management for Case Managers	3
		HS 47 Intervention, Treatment & Recovery	3
		HS 48 Group and Family Process	3
		HS 50 Law and Ethics	3
		HS 252 Co-Occurring Disorders	3
		HS 260 Domestic Violence Intervention Strategies	3
		PUBAD 1 Intro to Public Administration	3
		SOCIO 2 Modern Social Problems	3
		SP 20 Elements of Communication	3

♦ Must be in the Horticulture program and enrolled in a minimum of seven (7) units.

## HUMAN SERVICES

**Associate in Arts and/or Certificate of Achievement or Certificate of Accomplishment**

**Mission Statement:** Fulfillment of requirements for degree attainment and necessary to transfer.

### Outcomes:

- Develop a psychosocial treatment plan for a client.
- Analyze information and assess level of crisis intervention needed to best meet client needs.

Students learn the skills and knowledge necessary to transfer to upper division programs in social work or human services and to be employed at the paraprofessional entry level in social work and human services agencies. This Certificate of Achievement will prepare students for an entry-level position in the human services/social work field. This Associate Degree will prepare students for an entry-level position in the human services/social work field and for career advancement for those already employed in these occupations. For more departmental information call (562) 938-3961.

## CORE

REQUIRED CORE Courses:	UNITS
HS 1 Intro to Social Work	3
HS 207 Development of Helping & Listening Skills	3

<b>FAMILY SERVICES GROUP</b>	
ADJUS 253 Understanding Domestic Violence	3
CDECE 47 Human Development	3
FACS 50 Consumer Awareness	3
FACS 64 Life Management	3
HS 15 Social Welfare: People with Disabilities	3
HS 40A Intro to Addictive Behaviors	3
HS 40B Intro to Addictive Behaviors	3
HS 47 Intervention, Treatment & Recovery	3
HS 48 Group and Family Process	3
HS 242 Conflict Resolution/ Mediation	3
HS 260 Domestic Violence Intervention Strategies	3
SOCIO 11 Race and Ethnic Relations in the U.S.	3
SOCIO 40 Sociology of the Family	3
<b>Subtotal Units</b>	<b>10-14</b>
<b>TOTAL UNITS for HUMAN SERVICES MAJOR</b>	<b>24</b>

**CERTIFICATE OF ACCOMPLISHMENT:**

Activity/Recreation Leadership Training Certificate

REQUIRED COURSE	UNITS
HS 253 Activity/Recreation Leadership Training	3
<b>TOTAL UNITS</b>	<b>3</b>

**HUMAN SERVICES:****ALCOHOL AND DRUG STUDIES**

Associate in Arts and/or Certificate of Achievement or Certificate of Accomplishment

**Mission Statement:** Fulfillment of state approved certification requirements of California for job placement and workforce development.

**Outcomes:**

- Develop a psychosocial treatment plan for a client.
- Synthesize the theories and principles of drug and alcohol clinical evaluation, treatment planning, referral, service coordination, counseling, documentation, and professional/ethical responsibilities.

Students learn the skills and knowledge necessary to transfer to upper division programs in social work or human services and be eligible to become employed at the paraprofessional entry level in serving alcohol and drug clients. This Certificate of Achievement will prepare students for an entry-level position in the alcohol/drug treatment field. This certificate fulfills the California Association of Alcohol & Drug Studies (CAADE) academic and work experience requirements. Additional work experience plus passing their test will lead students to becoming Certified Addiction Treatment Counselors (CATC). This Associate Degree will prepare students for an entry-level position in the human services/alcohol and drug treatment field and for career advancement for those already employed in these occupations. This Certificate of Accomplishment (Co-Occurring Disorder) will prepare students for work with specialized population of AOD clients. For more departmental information call (562) 938-3961.

**AA DEGREE-ALCOHOL & DRUG STUDIES**

CORE	UNITS
HS 1 Introduction to Social Work	3
HS 46 Physiology & Pharmacology of Drugs	3
HS 47 Intervention, Treatment & Recovery	3
HS 48 Group and Family Process	3
<b>Subtotal Units</b>	<b>12</b>

**SKILLS AREA**IN ADDITION, complete *NINE (9)* units from from the following courses:

HS 43 Case Management: Treatment & Aftercare	3
HS 45 Stress Management for Case Managers	3
HS 50 Law and Ethics	3
HS 242 Conflict Resolution/Mediation	3
HS 251 HIV & Cultural Competency in Treatment	3
HS 252 Dual Diagnosis: Assessment & Treatment	3
HS 255 Alcohol & Drug Studies: Prevention & Ed.	3
<b>Subtotal Units</b>	<b>9</b>

**WORK EXPERIENCE**IN ADDITION, complete *THREE-FOUR (3-4)* units from the following

HS 71AD Work Experience – Human Services	2
HS 72AD Work Experience – Human Services	3
HS 73AD Work Experience – Human Services	4
<b>Subtotal Units</b>	<b>3-4</b>
<b>TOTAL UNITS</b>	<b>24-25</b>

**CERTIFICATE OF ACHIEVEMENT****BEHAVIORAL/FOUNDATIONAL**

REQUIRED COURSES:	UNITS
ANTHR 2 Cultural Anthropology	3
HS 1 Introduction to Social Work	3
PSYCH 1 Introduction to Psychology	3
CDECE 47 Human Development	3
SOCIO 1 Introduction to Sociology	3
PSYCH 14 Abnormal Psychology	3
<b>Subtotal Units</b>	<b>6</b>

**CORE**

IN ADDITION, complete the following courses:

HS 43 Case Management: Treatment & Aftercare	3
HS 46 Physiology & Pharmacology of Drugs	3
HS 47 Intervention, Treatment & Recovery	3
HS 48 Group and Family Process	3
HS 50 Law & Ethics	3
HS 252 Co-Occurring Disorders	3
<b>Subtotal Units</b>	<b>18</b>

**SKILLS AREA**IN ADDITION, complete *SIX (6)* units from the following courses:

HS 41 Introduction to Chemical Dependency	3
HS 45 Stress Management for Case Managers	3
HS 242 Conflict Resolution/Mediation	3
HS 251 HIV & Cultural Competency in Treatment	3
HS 255 Alcohol & Drug Studies: Prevention & Ed.	3
<b>Subtotal Units</b>	<b>6</b>

**WORK EXPERIENCE**IN ADDITION, complete *SIX (6)* units from the following:

HS 71AD Work Experience – Human Services	2
HS 72AD Work Experience – Human Services	3
HS 73AD Work Experience – Human Services	4
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>36</b>

**CERTIFICATE OF ACCOMPLISHMENT:**

Co-Occurring Disorders-Level One Certificate

REQUIRED COURSES	UNITS
PSYCH 1 Introduction to Psychology	3
PSYCH 14 Abnormal Psychology	3
HS 46 Physiology & Pharmacology of Drugs	3
HS 47 Intervention, Treatment & Recovery	3
HS 252 Co-Occurring Disorders	3
<b>TOTAL UNITS</b>	<b>15</b>

**Alcohol & Chemical Dependency Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
HS 41 Introduction to Chemical Dependency	3
HS 43 Case Management- Treatment & Aftercare	3
HS 46 Physiology & Pharmacology of Drugs	3
HS 48 Group & Family Process	3
HS 50 Law & Ethics	3
<b>TOTAL UNITS</b>	<b>15</b>

**INTERIOR DESIGN****Associate in Arts and/or Certificate of Achievement**

**Mission Statement:** Interior Design education prepares students to become professionals within the Interior Design field. Academic and technical preparation essential to the profession include analysis, synthesis of user needs, industry, technical and communication skills, as well as creative expression and development.

**Outcomes:**

- Synthesis of theory and principles of various components of interior design.
- Analyze and communicate interior design vision.

Students prepare for employment in Interior Design and related design specializations. See the Interior Design: "Technical Skills Emphasis" curriculum guide for preparation in the area of drafting and computer aided design. For more departmental information call (562) 938-4180 or go to the department website @ <http://interiordesign.lbcc.edu>.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
ID 1 Fundamentals of Interior Design	3
ID 5 Interior Design Studio 1	2
ID 10 Beginning Drafting: Interior Design	3
ID 20 Interior Design Careers	2
ID 30 Applied Color & Design Theory	4
ID 50 Interior Materials/Products	4
ID 70 Space Planning	3
ID 272 Residential Furnishings	1
ARCHT 61 Architectural Design	4
<b>TOTAL UNITS</b>	<b>26</b>

**For the CERTIFICATE OF ACHIEVEMENT in INTERIOR DESIGN**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
ID 1 Fundamentals of Interior Design	3
ID 5 Interior Design Studio 1	2
ID 10 Beginning Drafting: Interior Design	3
ID 20 Interior Design Careers	2
ID 30 Applied Color & Design Theory	4
ID 50 Interior Materials/Products	4
ID 70 Space Planning	3
ID 272 Residential Furnishings	1
ARCHT 61 Architectural Design	4
ID 80 History of Interior & Furnishings 1	3
ID 90 History of Interior & Furnishings 2	3
ID 200 Interior Illustration	2
ID 210 Fundamentals of Lighting	3
†ID 215 Interior Design Studio II	2
ID 230 Business & Professional Practices	3
♦ID 70AD Work Experience Issues- Interior Design	1
♦ID 71AD, 72AD, or 73AD Work Experience	1, 2, or 3
ID 240 Intro to Green Design	3
ID 241 Intro to LEED	3
<b>TOTAL UNITS for Program Certificate</b>	<b>50-54</b>

**RECOMMENDED but not required:**

SP 10 Elements of Public Speaking	3
TEC 60AD Computer Aided Design	3
♦ ID 70AD must be taken concurrently with ID 71AD, 72AD or 73AD.	

**INTERIOR DESIGN:****Technical Skills Emphasis****Associate in Arts/ Certificate of Achievement**

**Mission Statement:** Interior Design technical skills emphasis condenses specific preparation necessary for AutoCAD, space planning, drafting and lighting specializations.

**Outcomes:**

- Construct a set of construction drawings using hand drafting technique.
- Demonstrate construction theory and practice in diagram format.

Students prepare for employment in Interior Design and related design specializations including residential, hospitality, and contract design. See the Interior Design: "Technical Skills Emphasis" curriculum guides for preparation in the area of drafting and computer aided design. For more departmental information call (562) 938-4180 or go to the department website @ <http://interiordesign.lbcc.edu>.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
ID 1 Fundamentals of Interior Design	3
ID 5 Interior Design Studio 1	2
ID 10 Beginning Drafting: Interior Design	3
ID 20 Interior Design Careers	2
ID 70 Space Planning	3
ID 200 Interior Illustration	2
ID 210 Fundamentals of Lighting	3
†ID 215 Interior Design Studio II	2
ID 240 Intro to Green Design	3
ID 241 Intro to LEED	3
ARCHT 61 Architectural Design	4
<b>TOTAL UNITS</b>	<b>30</b>

**INTERNATIONAL BUSINESS****Certificate of Achievement and/or Associate in Arts**

**Mission Statement:** The mission of the International Business Program is to help students acquire the necessary knowledge and skills to begin, or enhance, a career in international business, or for transfer to an upper-division international business program at a 4-year college or university.

**Outcomes:**

- Comprehend the primary elements of the language and theories of international business, while recognizing the importance of ethics, social responsibility, and diversity as legitimate international business objectives.
- Use creative and critical-thinking strategies in the solution of complex business situations through the application of learned international business concepts.
- Develop communication and teamwork skills for the purpose of ensuring future personal and professional success.

Students learn both theoretical knowledge and practical skills in the wide-ranging field of international business. Transfer students will gain a strong international elective base for further study in a variety of fields. Working students acquire new skills and career opportunities. Any of the courses in this concentration provide knowledge of the global economy and discussions of international issues important to personal growth. These certificates and degree programs prepare students for entry-level positions in a wide range of international business as well as entrepreneurial opportunities. For more departmental information call (562) 938-4328 or go to the department website @ <http://business.lbcc.edu>.

REQUIRED COURSES	UNITS
GBUS 5 Introduction to Business	3
IBUS 1 Introduction to International Business	3
IBUS 20 Export-Import Business Practice	3
IBUS 40 International Banking & Finance	3
†IBUS 60 International Business Law	3
MKTG 47 Essentials of Marketing	3
<b>TOTAL UNITS</b>	<b>18</b>

**Recommended Preparation for the International Business Program Certificate:**

GEOG 40 World Regional Geography	3
CAOTO 15 Business Communications	3
CAOTC 34 Intro to Computers and Applications <b>or</b>	3
CBIS6A Introduction to IT Concepts & Apps <b>or</b>	4
COMIS 1 Computer Information Competency	1
LAW 18A Business Law	3

**JOURNALISM**

**Newspaper/Magazine, Public Relations and Publication Specialist**

**Associate in Arts and/or Certificate of Achievement**

**Mission Statement:** The journalism program prepares students with a body of knowledge and a system of inquiry, scholarship and training for careers in which they are accountable to the public interest for their knowledge, ethics, competence and service; to citizens, clients or consumers for their competencies and the quality of their work; and to employers for their performance.

**Outcomes:**

- Gather and prepare material accurately and fairly while meeting deadlines.
- Apply teamwork skills to publish a newspaper, magazine, or website.

This field of concentration, with an emphasis in **NEWSPAPERS/MAGAZINES**, provides a basic program for students interested in careers requiring journalistic training, such as newspaper or Internet reporting, magazine or free-lance writing. The emphasis in **PUBLIC RELATIONS** provides a basic program for students interested in careers in any aspect of public relations and in writing and editing in-house or web sites. The **PUBLICATION SPECIALIST** emphasis provides a basic program for students interested in learning to produce a variety of publications including newsletters, brochures, web sites, proposals, and house magazines. The Certificate of Achievement provides access to entry-level employment in a variety of journalism related fields.

*Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.*

These include newspapers, magazines, web sites, newsletters, and press relation offices. The field of Photojournalism provides students with the entry-level skills necessary to embark upon a career in the news online and documentary photography field. It includes emphasis in practical applications leading to career advancement. For more departmental information call (562) 938-4282. Email [pmckean@lbcc.edu](mailto:pmckean@lbcc.edu).

**DEGREE PROGRAM**

**NEWSPAPER/MAGAZINE EMPHASIS**

REQUIRED COURSES	UNITS
JOURN 10 Intro to Global Media Communications	3
†JOURN 20 Beginning Newswriting & Reporting	4
JOURN 25 Free-Lance Writing	3
JOURN 35AD Photojournalism (1st semester)	3
JOURN 80AD Working on Newspaper (take twice)	8
<b>Subtotal Units</b>	<b>21</b>

**IN ADDITION, complete THREE (3) units from the following:**

JOURN 1A Digital Design and Publication	3
JOURN 6AD Magazine Writing	3
<b>Subtotal Units</b>	<b>3</b>
<b>TOTAL UNITS</b>	<b>24</b>

**RECOMMENDED but not required courses:**

JOURN 1B Digital Design and Publication	3
JOURN 5 Intro to Public Relations	3
JOURN 35AD Photojournalism (2nd semester)	3
JOURN 80AD Multimedia Newsroom	8
JOURN 85AD Multimedia Editor Training (1st & 2 <sup>nd</sup> Semester)	8

**PUBLIC RELATIONS EMPHASIS**

REQUIRED COURSES	UNITS
JOURN 1A Digital Design and Publication	3
JOURN 5 Intro to Public Relations	3
JOURN 10 Intro to Global Media Communications	3
†JOURN 20 Beginning Newswriting & Reporting	4
JOURN 35AD Photojournalism (1st semester)	3
JOURN 80AD Multimedia Newsroom	4
<b>TOTAL UNITS</b>	<b>20</b>

**RECOMMENDED but not required courses: UNITS**

JOURN 25 Free-Lance Writing	3
JOURN 35AD Photojournalism (2nd semester)	3
JOURN 80AD Multimedia Newsroom	8
JOURN 85AD Multimedia Editor Training (1st & 2 <sup>nd</sup> Semester)	8

Elements of Public Speaking	3
SP 60 Elements of Argumentation & Debate	3
MKTG 40 Salesmanship	3
MKTG 47 Essentials of Marketing	3

**PUBLICATION SPECIALIST EMPHASIS**

REQUIRED COURSES	UNITS
JOURN 1A Digital Design and Publication	3
JOURN 6AD Magazine Writing	3
†JOURN 20 Beginning Newswriting & Reporting	4
JOURN 25 Free-Lance Writing	3
JOURN 35AD Photojournalism (1st semester)	3
JOURN 80AD Multimedia Newsroom (take twice)	8
<b>TOTAL UNITS</b>	<b>24</b>



**CERTIFICATE OF ACHIEVEMENT****JOURNALISM**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
JOURN 10 Intro to Global Media Communications	3
†JOURN 20 Beginning Newswriting & Reporting	3
JOURN 25 Free-Lance Writing	3
JOURN 35AD Photojournalism (1st semester)	3
JOURN 80AD Multimedia Newsroom	4
JOURN 85AD Multimedia Editor Training	4
<b>TOTAL UNITS</b>	<b>22-24</b>
<b>RECOMMENDED but not required courses:</b>	
JOURN 1AB Digital Design and Publication	3
JOURN 5 Intro. to Public Relations	3
JOURN 6AD Magazine Writing	3

**CERTIFICATE OF ACHIEVEMENT****PHOTOJOURNALISM**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
†ENGL 1 or ENGL 1H Reading & Composition or	4
†ENGL 105 Fundamentals of Writing	4
JOURN 80AD Multimedia Newsroom	8
PHOT 31AB Basic Photo-Black & White	3
PHOT 32AD Basic Photo-Color	3
†PHOT 35AD Photography for Publication (1semester)	3
<b>Subtotal Units</b>	<b>21</b>
<b>Complete, NINE (9) units from the following:</b>	
JOURN 6AD Magazine Writing or	3
PHOT 71AD or 72AD or 73AD Work Experience	2,3,4
JOURN 80AD Multimedia Newsroom	4
JOURN 85AD Multimedia Editor Training	8
†PHOT 35AD Photography for Publication	4
†PHOT 39AD Photography for Publication	3
<b>Subtotal Units</b>	<b>9</b>
<b>TOTAL UNITS</b>	<b>30</b>

**LEGAL SECRETARY****Associate in Arts and/or Certificate of Achievement or Certificate of Accomplishment**

Please contact the department at (562) 938-4904 or go to the department website @ <http://caot.lbcc.edu> for information regarding the program.

**LIBERAL STUDIES****Associate in Arts**

For information regarding this guide please visit <http://osca.lbcc.edu/curriculumguides.cfm>

**LIBRARY TECHNICIAN****Associate in Arts and/or Certificate of Achievement**

**Mission Statement:** To enhance employment opportunities and provide a trained workforce for the 21st century in the library field.

**Outcomes:**

- Students will synthesize the theoretical knowledge and the practical skills for all major components of a working library.
- Examine and compare information from various sources to evaluate reliability, validity, accuracy, authority, timeliness, and point of view, or bias.

This field of concentration is designed to prepare students for an entry-level Library Technician position. This Certificate of Achievement will prepare students for a variety of entry-level in a library setting. This Associate Degree will prepare students for career advancement once a certificate has been earned. For more departmental information call (562) 938-4708 or go to the department website @ <http://lib.lbcc.edu/classes/libtech>.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
LIB 3 Information Competency	3
LIB 201 Introduction to Cataloging	3
LIB 202 Introduction to Access Services	3
LIB 203 Introduction to Acquisitions	3
LIB 204 Introduction to Reference Services	3
<b>Subtotal Units</b>	<b>15</b>

**IN ADDITION, complete ONE (1) of the following:**

CAOTC 34 Introduction to Computers & Applications	3
CAOTC 35 Microsoft Office-Specialist	3
<b>Subtotal Units</b>	<b>3</b>
<b>TOTAL UNITS</b>	<b>18</b>

**MARKETING****Certificate of Achievement and/or Associate in Arts**

**Mission Statement:** The mission of the Marketing Program is to help students acquire the necessary knowledge and skills to begin, or enhance, a career in the area of marketing, or for transfer to an upper-division marketing program at a 4-year college or university.

**Outcomes:**

- Comprehend the primary elements of the language and theories of marketing, while recognizing the importance of ethics, social responsibility, and diversity as legitimate marketing objectives.
- Use creative and critical-thinking strategies in the solution of complex business situations through the application of learned marketing concepts.

The Certificate of Achievement and Associate Degree programs prepare students for a wide range of entry and mid-level positions in marketing. Students can enhance their skills in strategic and tactical market planning by studying the internal and external forces that affect all organizations. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4328 or go to the department website at <http://business.lbcc.edu>.

**REQUIRED COURSES:**

MKTG 47 Essentials of Marketing	3
MKTG 41 Marketing Communications	3
MKTG 40 Salesmanship	3
IBUS 75 International Logistics	3
<b>Subtotal units</b>	<b>12</b>

**IN ADDITION, complete TWO (2) courses from the following:**

GBUS 5 Introduction to Business	3
LAW 18A Business Law	3
IBUS 52 Introduction to Supply Chain Management	3
IBUS 55 Intro to Transportation Management	3
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>18</b>

**RECOMMENDED Courses Not Required:**

ACCTG 200A Introduction to Accounting	3
CAOTC 34 Introduction to Computers & Applications	3
CAOTO 15 Business Communications	3
CBIS 6A Introduction to IT Concepts & Applications	3
ECON 1A Macro Economic Analysis	3
ECON 1B Micro Economic Analysis	3
LAW 18B Business Law	3

**MATHEMATICS**

**Associate in Science**

**Mission Statement:** The mission of Long Beach City College Mathematics program is to foster an environment that both challenges and supports its students. The primary purposes of the educational program offered by the department are:

1. To prepare students for transfer to baccalaureate-granting institutions.
2. To nurture an appreciation of the role of mathematics in life.
3. To enhance our students' ability to utilize mathematics and critical thinking in their lives.
4. To support business and industry in economic development by providing a highly educated workforce.

We will aspire to excellence in teaching, a well-designed curriculum, and a supportive environment for all our students. The department is committed to continuous revision and improvement of the curriculum, making real world connections, and incorporating technology. The department employs an assortment of assessment techniques, provides a variety of teaching styles, and maintains intervention plans for students who might be having difficulty.

**Outcomes:**

- To serve students to meet graduation/GE requirements.
- To serve students for the fulfillment of their own personal goals.
- To serve students to meet career/transfer requirements.

This field of concentration is designed to recognize competency in mathematics at a postsecondary level. It partially fulfills the requirements for transfer with junior standing for students majoring in mathematics and related fields having significant mathematical content. This Associate Degree will facilitate transfer for a four-year degree. For more departmental information call (562) 938-4168 or (562) 938-4428 or go to the department website @ <http://math.lbcc.edu/dept>.

**REQUIRED COURSES**

	<b>UNITS</b>
†CS 11 Computer Programming/C++1	3.5
†*ENGL 1 Reading and Composition	4
†MATH 60 First Calculus Course	5
†MATH 70 Second Calculus Course	5
†MATH 80 Third Calculus Course	5
†MATH 84 Intro Differential Eqns. and Linear Alg.	4
†PHYS 3A Physics for Sci. & Engr.-Mechanics	5
<b>Subtotal Units</b>	<b>31.5</b>

**IN ADDITION, complete TWO (2) of the following courses:**

†BIO 1A Biology for Science Majors	5
†BIO 1B Biology for Science Majors	5
†CHEM 1A General Chemistry	5
†CHEM 1B General Chemistry	5
ECON 1A Macro Economic Analysis	3
ECON 1B Micro Economic Analysis	3
GEOL 2 General Physical Geology	4
GEOL 3 Historical Geology	3
GEOL 5 Environmental Geology	3
†PHYS 3B Physics for Sci. & Engineering.- E & M	4
†PHYS 3C Physics for Sci. & Engr.- Modern Physics	4
<b>Subtotal</b>	<b>6-10</b>

**IN ADDITION, complete ONE (1) of the following courses:**

†ENGR 54 Computer Methods/C++	3
<b>Subtotal Units</b>	<b>3-3.5</b>
<b>TOTAL UNITS</b>	<b>37-41.5</b>

**MECHANICAL MAINTENANCE TECHNOLOGY**

**Certificate of Achievement and/or Associate in Science**

**Mission Statement:** The Program Mission Statement is not available for the *Mechanical Maintenance Technology* program. Please contact the department for additional information.

This program gives students the comprehensive skills to maintain, diagnose and repair mechanical and electrical equipment related to any heavy industry (i.e. transportation, shipping and rail or refinery industry.) For more departmental information call (562) 938-3053 or 938-3066.

**REQUIRED COURSES** **UNITS**

DIESEL 293AD General Engine	4
DIESEL 391A Hydraulics	3
DIESEL 492 Air & Hydraulic Brakes	3
ELECT 202 Electrical Mathematics	3
°ELECT 204 1 <sup>st</sup> Sem Fundamentals of DC Electricity	3
°ELECT 210A Laboratory Practices 1	1
(ELECT 204 & 210A must be taken concurrently)	
†°ELECT 209 2nd Sem Fund of Motors/Generators	3
°ELECT 210B Laboratory Practices 2	1
(ELECT 209 & 210B must be taken concurrently)	
AC_R 450A Transport Refrigeration	5
†AC_R 450B Advanced Transport Refrigeration	5
FORK 801 Forklift Safety & Operation	1
WELD 400AD Welding (General)	2
WELD 410AD Welding (Arc)	2
WELD 480AD Welding (Inert Gas)	2
<b>Subtotal Units</b>	<b>38</b>

**IN ADDITION, complete at least THREE (3) Units from the following:**

†ELECT 212 3 <sup>rd</sup> Sem Fundamentals of AC Electricity	3
ELECT 210C Laboratory Practices 3 (AC)	1
(ELECT 212 & 210C must be taken concurrently)	
AC_R 400A Uniform Mechanical Code I	3
†AC_R 400B Uniform Mechanical Code II	3
SHMET 220 Basic Sheet Metal Layout and Fabrication	4
<b>Subtotal Units</b>	<b>3</b>
<b>TOTAL UNITS</b>	<b>41</b>

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

° ELECT 200A/B will be accepted as the equivalent of ELECT 204/209/210A/210B.

## MEDICAL ASSISTING PROGRAM Administrative/Clinical

### Associate in Arts or Science and/ or Certificate of Achievement or Certificate of Accomplishment

**Mission Statement:** The Program Mission Statement is not available for the *Medical Assisting* program. Please contact the department for additional information.

The Medical Assistant Program is designed to educate the student for immediate employment providing assistance to the physician in caring for patients in the medical office or clinic. The wide range of clinical and business duties provides an interesting career for one who enjoys working with people. The Medical Assisting Program is approved by the Long Beach Medical Association. The program is designed to be completed in one academic year and includes either the administrative or clinical assisting courses or a combination of both. The program offers an Associate Arts/Science Degree in the Combined Certificate Program Option or a Certificate of Achievement in the Administrative or Clinical Certificate option. The department also offers Certificates of Accomplishment in Emergency Medical Technician, Health Unit Coordinator, Medical Insurance Billing, or Phlebotomy. This Certificate of Achievement will prepare students for an entry-level position in a variety of ambulatory settings. Each certificate is the foundation for specialized clinical practice. This Associate Degree will prepare students for career advancement once a certificate has been earned. For more departmental information call (562) 938-4166.

### COMBINED ADMINISTRATIVE/CLINICAL PROGRAM

#### FIRST SEMESTER

REQUIRED COURSES	UNITS
± *BIO 60 Human Biology 1	4
±AH 60 Medical Terminology	3
†MA 270 Introduction to Medical Assisting	3
†MA 280 Health Care Clinical Procedures	3
± Select one of the Administrative Options listed below. Complete THREE (3) Units from that option.	3
<b>Subtotal Units</b>	<b>16</b>

#### SECOND SEMESTER

REQUIRED COURSES	UNITS
±AH 276 Health Care Law	1
†MA 282 Advanced Health Care Clinical Procedures	3
ā†MA 286 Clinical Practicum	4
ā†MA 288 Practicum Seminar	1
±MA 290 Medical Insurance Billing	3
± Complete THREE (3) Additional Units from the Administrative Option selected first semester.	3
<b>Subtotal Units</b>	<b>15</b>
<b>TOTAL UNITS</b>	

#### ADMINISTRATIVE OPTIONS

OPTION 1:	
±ACCTG 200A Introduction to Accounting	3
±CAOTC 39A Microsoft Word for Windows	3
±Computer Class- any class which satisfies	1-4

The Technology portion of the Information Competency Graduation Requirement. Recommended course: COMIS 1. For complete listing see General Education Course Pattern Guide available here:  
<http://osca.lbcc.edu/generalplan>.

#### OPTION 2:

±CAOTC 47A Access for Windows, Beginning	3
±CAOTC 41E Microsoft Excel for Windows	3

### CERTIFICATES OF ACHIEVEMENT ADMINISTRATIVE CERTIFICATE OPTION

#### FIRST SEMESTER

REQUIRED COURSES	UNITS
±*BIO 60 Human Biology 1	4
±AH 60 Medical Terminology	3
†MA 270 Introduction to Medical Assisting	3
± Select one of the Administrative Options listed below. Complete THREE (3) Units from that option.	3
<b>Subtotal Units</b>	<b>13</b>

#### SECOND SEMESTER

REQUIRED COURSES	UNITS
±AH 276 Health Care Law	1
†MA 284AB Medical Assisting Specialized Practicum 2	2
ā†MA 288 Practicum Seminar	1
±MA 290 Medical Insurance Billing	3
± Complete THREE (3) Additional Units from the Administrative Option selected first semester.	3
<b>Subtotal Units</b>	<b>10</b>
<b>TOTAL UNITS</b>	<b>23</b>

### COMBINED ADMINISTRATIVE/CLINICAL CERTIFICATE PROGRAM

#### FIRST SEMESTER

REQUIRED COURSES	UNITS
± *BIO 60 Human Biology 1	4
±AH 60 Medical Terminology	3
†MA 270 Introduction to Medical Assisting	3
†MA 280 Health Care Clinical Procedures	3
± Select one of the Administrative Options listed below. Complete THREE (3) Units from that option.	3
<b>Subtotal Units</b>	<b>16</b>

#### SECOND SEMESTER

REQUIRED COURSES	UNITS
±AH 276 Health Care Law	1
†MA 282 Advanced Health Care Clinical Procedures	3
ā†MA 286 Clinical Practicum	4
ā†MA 288 Practicum Seminar	1
±MA 290 Medical Insurance Billing	3
± Complete THREE (3) Additional Units from the Administrative Option selected first semester.	3
<b>Subtotal Units</b>	<b>15</b>
<b>TOTAL UNITS</b>	<b>31</b>

#### ADMINISTRATIVE OPTIONS

#### OPTION 1:

±ACCTG 200A Introduction to Accounting	3
CAOTC 39A Microsoft Word for Windows	3
±Computer Class- any class which satisfies	1-4
The Technology portion of the Information Competency Graduation Requirement. Recommended course: COMIS 1. For complete listing see General Education Course	

Pattern Guide available here:  
<http://osca.lbcc.edu/generalplan>.

**OPTION 2:**

±CAOTC 47A Access for Windows, Beginning	3
±CAOTC 47B Access for Windows, Advanced	3

**CLINICAL CERTIFICATE OPTION**

A Clinical Medical Assistant assists the physician in caring for the patient in the medical office or clinic. The range of clinical duties include assisting with the physical exam, specialty exams, and minor surgery; sterilization; laboratory procedures; giving injections; diagnostic tests; pharmacology; taking a health history; venipuncture; and handling emergency situations.

**FIRST SEMESTER**

REQUIRED COURSES	UNITS
±*BIO 60 Human Biology 1	4
±AH 60 Medical Terminology	3
†MA 270 Introduction to Medical Assisting	3
†MA 280 Health Care Clinical Procedures	3
±Computer Class- any class which satisfies The Technology portion of the Information Competency Graduation Requirement. Recommended course: COMIS 1. For complete listing see General Education Course Pattern Guide available here: <a href="http://osca.lbcc.edu/generalplan">http://osca.lbcc.edu/generalplan</a> .	1-4
<b>Subtotal Units</b>	<b>14-17</b>

**SECOND SEMESTER**

REQUIRED COURSES	UNITS
±AH 276 Health Care Law	1
†MA 282 Adv. Health Care Clinical Procedures	3
ā†MA 284AB Medical Assisting Specialized Practicum 2	2
ā†MA 288 Practicum Seminar	1
±MA 290 Medical Insurance Billing	3
<b>Subtotal Units</b>	<b>10</b>
<b>TOTAL UNITS</b>	<b>24-27</b>

**CERTIFICATES OF ACCOMPLISHMENT:**

**Emergency Medical Technician Certificate**

REQUIRED COURSES	UNITS
†EMT 251 Emergency Medical Technician	3
†EMT 251L Emergency Medical Technician Lab	1.5
<b>TOTAL UNITS</b>	<b>4.5</b>

**Health Unit Coordinator Certificate**

REQUIRED COURSES	UNITS
AH 60 Medical Terminology	3
†AH 280 Health Unit Coordinator	2
†AH 280L Health Unit Coordinator Laboratory	1
<b>TOTAL UNITS</b>	<b>6</b>

**Medical Insurance Billing Certificate**

REQUIRED COURSES	UNITS
AH 60 Medical Terminology	3
MA 290 Medical Insurance Billing	3
<b>TOTAL UNITS</b>	<b>6</b>

**Phlebotomy Certificate**

REQUIRED COURSE	UNITS
AH 220 Phlebotomy	1.5
AH 220AD Phlebotomy	1
<b>TOTAL UNITS</b>	<b>2.5</b>

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

± These course may be taken before admission to the program.  
 ā C.P.R Certification is required.

**MUSIC**

**Associate in Arts**

**Mission Statement:** The Program Mission Statement is not available for the *Music* program. Please contact the department for additional information.

**Outcomes:**

- Students will achieve Sophomore proficiency ranking in performance repertoire and technique
- Students will achieve Sophomore proficiency level in theory, musicianship, and piano placement exams.

The goals of the Associate Degree are academic transfer to a university and preparation for audition into a university music program. There are a number of curricular components that are needed to achieve these goals: theory, musicianship, piano, and the applied performance program. The ultimate career goals for the AA in Music would be to receive a bachelor's degree in music performance, education, composition, or musicology (theory or history). This would prepare one for a teaching or performance career and/or admission to a graduate program. For more departmental information call (562) 938-4309 or go to the department website @ <http://music.lbcc.edu>.

REQUIRED COURSES	UNITS
MUSIC 6 Introduction to Music Theory	3
†MUSIC 1A Music Theory I	3
†MUSIC 1B Music Theory II	3
†MUSIC 2A Music Theory III	3
MUSIC 5AD Musicianship I	1
†MUSIC 9AD Musicianship II	1
†MUSIC 10AD Musicianship III	1
MUSIC 30A Music History-Anquity to 1750 or	3
MUSIC 30B Music History and Literature or	3
MUSIC 40 Music Appreciation	3
MUSIC 92AD Applied Vocal & Instrumental Music (4 Sem)	4
<b>Subtotal Units</b>	<b>22</b>

**REQUIRED Performance Ensemble- FOUR (4)**

**SEMESTERS required:**

▲MUSIC 11AD Long Beach City College Viking Chorale or	
▲MUSIC 13AD College Symphony Orchestra or	
▲MUSIC 47AD Wind Symphony	1
<b>Subtotal Units</b>	<b>4</b>

**Piano Proficiency Component (Three Sem. of Piano)**

MUSIC 51A Beginning Piano 1 or	2
†MUSIC 51B Beginning Piano 2 or	2
†MUSIC 52C Intermediate Piano 1	2
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>26-32</b>

**NURSING: ASSOCIATE DEGREE (RN) PROGRAM**

**Certificate of Achievement and/or Associate in Arts or Science**

**Mission Statement:** The faculty members of the Associate Degree Nursing Program uphold the mission statement of Long Beach City College, and a commitment

to excellence in supporting the community and life long learning of our students.

**Outcomes:**

- Synthesize the theories and principles that encompass the nursing process and pathological conditions.
- Manage all aspects of the nursing process to achieve positive patient outcomes.

The program is designed to be completed in two years (after completion of pre-requisites) and qualifies the student to take the NCLEX-RN licensing examination given by the State of California Board of Registered Nursing. The program satisfies the requirements for an Associate degree and/or a Certificate of Achievement. The graduate is qualified for immediate employment in acute care hospitals and many other health care facilities. The Associate Degree and Certificate of Achievement prepare students for an entry-level position in a variety of health care settings following successful completion of the NCLEX-RN. The ADN also serves as a foundation for specialization. Graduates of the Associate Degree nursing Program are also eligible to transfer in to the upper division nursing courses in ADN to bachelor's degree nursing programs and ADN to master's degree nursing programs. For additional information call (562) 938-4166 or go to the department website @ <http://nursing.lbcc.edu>.

**PREREQUISITES (Required Prior to Enrollment in Program)**

*ANAT 1 Human Anatomy	4
*PHYSI 1 Human Physiology	5
*BIO 2 General Microbiology	5
†#*ENGL 105 Fundamentals of Writing or ENGL 1 Reading and Composition	4
<b>Subtotal Units</b>	<b>18</b>

**First Semester**

REQUIRED COURSES	UNITS
†ADN 11A Introduction to Nursing	2.5
†ADN 11AL Introduction to Nursing Laboratory	1.5
†ADN 11B Health Deviations 1	2.5
†ADN 11BL Health Deviations 1 Laboratory	1.5
ADN 610 Nursing Skills Refresher Laboratory	0
*PSYCH 1 Introduction to Psychology or SOCIO 1 Introduction to Sociology	3
<b>Subtotal Units</b>	<b>11</b>

**Second Semester**

REQUIRED COURSES	UNITS
†ADN 12A Health Deviations 2	2.5
†ADN 12AL Health Deviations 2 Laboratory	1.5
†ADN 12B Health Deviations 3	2.5
†ADN 12BL Health Deviations 3 Laboratory	1.5
ADN 610 Nursing Skills Refresher Laboratory	0
*PSYCH 1 Introduction to Psychology or SOCIO 1 Introduction to Sociology	3
<b>Subtotal Units</b>	<b>11</b>

**Third Semester**

REQUIRED COURSES	UNITS
†ADN 21B Mental Health	2.5
†ADN 21BL Mental Health Laboratory	3
†ADN 31A Trends in Nursing A	1
†ADN 235A Maternal Newborn Nursing	1.5
†ADN 235AL Maternal Newborn Laboratory	1.5
†ADN 235B Pediatric Nursing	1.5
†ADN 235BL Pediatric Nursing Laboratory	1.5

ADN 610 Nursing Skills Refresher Laboratory	0
*SP 10, 20, OR 30 General Ed. Requirement	3
<b>Subtotal Units</b>	<b>15.5</b>

**Fourth Semester**

REQUIRED COURSES	UNITS
†ADN 22B Adv. Nursing 2, Role Transition	2.5
†ADN 22BL Adv. Nursing 2, Role Transition Laboratory	3
†ADN 31B Trends in Nursing B	1
†ADN 245A Advance Medical/Surgical Nursing	1.5
†ADN 245AL Advance Medical/Surgical Nursing Lab	1.5
ADN 610 Nursing Skills Refresher Laboratory	0
*A course from the Humanities General Ed. Requirement	3
<b>Subtotal Units</b>	<b>15.5</b>
<b>TOTAL UNITS</b>	<b>70</b>

**RECOMMENDED but not required courses:**

ADN 201AD, 202AD Nursing Skills Adjunct Lab	.5
†ADN 212AD Clinical Practicum I	2
†ADN 221AD Clinical Practicum II	2
†ADN 222AD Clinical Practicum III	2
ADN 225 Nursing Applications of Pharmacology	3
ADN 810 Preparation for Nursing	.5
AH 60 Medical Terminology	3
†AH 222 Intravenous Therapy	1
†AH 225 Basic Arrhythmia Recognition	.5

**NURSING: LVN to RN**

**Career Ladder Program**

**Associate in Arts or Science/ Certificate of Achievement**

**Mission Statement:** The faculty members of the Associate Degree Nursing Program uphold the mission statement of Long Beach City College, and a commitment to excellence in supporting the community and life long learning of our students.

**Outcomes:**

- Synthesize the theories and principles that encompasses the nursing process and pathological conditions.
- Manage all aspects of the nursing process to achieve positive patient outcomes.

Long Beach City College is fully accredited by the Western Association of Schools and Colleges. The nursing program is accredited by the National League for Nursing Accrediting Commission, 3343 Peachtree Rd., NE Suite 500, Atlanta, GA, 30326, (404) 975-5000 and the State of California Board of Registered Nursing. The Career Ladder Program (Licensed Vocational Nurse to Registered Nurse Program) is designed to be completed in two and a half semesters. Two advanced placement programs are offered: Associate Degree program and a Certificate program (30 unit option). This Associate Degree and Certificate of Achievement prepare students for an entry-level position in a variety of health care settings following successful completion of the NCLEX-RN. The ADN also serves as a foundation for specialization. Persons who complete either program are qualified to take the registered nurse national licensing exam. However, persons who complete only the certificate program are not graduates of an accredited ADN program and may not qualify for license by endorsement in other states. For additional information call (562) 938-4166.

**RESTRICTIONS ON LICENSURE:**

Persons with substance abuse problems or with conviction of crimes substantially related to the practice of nursing may not be granted a license by the California Board of Registered Nursing. Fingerprints are part of the application for licensure. For further information see BRN Policy on Denial of Licensure.

**ASSOCIATE DEGREE OF NURSING PROGRAM  
LVN to RN Career Ladder Degree Program**

**PREREQUISITES COURSE FOR THE PROGRAM**

**1. Complete the following courses with a “C” or better.**

	<b>UNITS</b>
*ANAT 1 Human Anatomy	4
*PHYSI 1 Human Physiology	5
*BIO 2 General Microbiology	5
†ENGL 1 Reading and Composition	4
<b>Subtotal Units</b>	<b>18</b>

**RECOMMENDED but not required:**

ADN 286 Nursing Applications of Pharmacology	3
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**2. Pass NURSING DEPARTMENT EXAMINATION with a score of 75% or better immediately after completion of ADN 20A.** This multiple choice test covers theoretical aspects of first level nursing practice and is given on an individual basis. The test may be taken twice. Before a third attempt, a student must wait for a period of six months. If test is not passed on the second attempt see program director.

**Subtotal (advanced placement) Units** **16**

**3. Hold a current license to practice as a vocational Nurse in California.**

**4. Entrance is not guaranteed. Entrance is determined by space availability.**

**First Semester**

**REQUIRED COURSES** **UNITS**

†±ADN 20A Transition to Second Level Nursing (Student must be prepared to enter the program within one year after successful completion of ADN 20A)	1
ADN 610 Nursing Skills Refresher Laboratory	0
*SOCIO 1 Introduction to Sociology	3
<b>Subtotal Units</b>	<b>4</b>

**Second Semester**

†ADN 21B Mental Health	2.5
†ADN 21BL Mental Health Laboratory	3
*SP 10, 20, OR 30 General Ed. Requirement	3
†ADN 31A Trends in Nursing A	1
†ADN 235A Maternal Newborn Nursing	1.5
†ADN 235AL Maternal Newborn Laboratory	1.5
†ADN 235B Pediatric Nursing	1.5
†ADN 235BL Pediatric Nursing Laboratory	1.5
ADN 610 Nursing Skills Refresher Laboratory	0
<b>Subtotal Units</b>	<b>15.5</b>

**Third Semester**

*A course from the Humanities General Education Requirement List	3
†ADN 22B Adv. Nursing 2, Role Transition	2.5
†ADN 22BL Adv. Nursing 2, Role Transition Laboratory	3
†ADN 31B Trends in Nursing B	1
†ADN 245A Advance Medical/Surgical Nursing	1.5

†ADN 245AL Advance Medical/Surgical Nursing Lab	1.5
ADN 610 Nursing Skills Refresher Laboratory	0
<b>Subtotal Units</b>	<b>15</b>
<b>TOTAL UNITS</b>	<b>34.5</b>
<b>TOTAL PROGRAM UNITS (including prerequisites)</b>	<b>68.5</b>

**CERTIFICATE OF ACHIEVEMENT**

**(30 unit option)**

**PREREQUISITES**

**1. Complete the following courses with a “C” or better.**

	<b>UNITS</b>
PHYSI 1 Human Physiology	5
BIO 2 General Microbiology	5
<b>Subtotal Units</b>	<b>10</b>

**2. Take the NURSING DEPARTMENT**

**EXAMINATION**

This multiple choice test covers theoretical aspects of first level nursing practice. Results will be used for counseling in the program.

**TOTAL PREREQUISITE UNITS** **10**

**First Semester**

**REQUIRED COURSES** **UNITS**

†±ADN 20A Transition to Second Level Nursing	1
ADN 610 Nursing Skills Refresher Laboratory (± Recommended but not required ADN 202AD, Nursing Skills Adjunct Lab)	0
<b>Subtotal Units</b>	<b>1</b>

**Second Semester**

**REQUIRED COURSES** **UNITS**

†ADN 321A Women’s Health and Adv. Obstetrics	1.5
†ADN 321AL Women’s Health and Adv. Obstetrics Lab	1.5
†ADN 21B Mental Health	2.5
†ADN 21BL Mental Health Laboratory	3
†ADN 31A Trends in Nursing A	1
ADN 610 Nursing Skills Refresher Laboratory	0
<b>Subtotal Units</b>	<b>9.5</b>

**Third Semester**

**REQUIRED COURSES** **UNITS**

†ADN 322A Advanced Nursing 1, Adult Critical Care	1.5
†ADN 322AL Adv. Nursing 1, Adult Critical Care Lab	1.5
†ADN 22B Adv. Nursing 2, Role Transition	2.5
†ADN 22BL Adv. Nursing 2, Role Transition Lab	3
†ADN 31B Trends in Nursing B	1
ADN 610 Nursing Skills Refresher Laboratory	0
<b>Subtotal Units</b>	<b>9.5</b>

**TOTAL UNITS (10 PREREQUISITES + 20**

**REQUIRED CERTIFICATE COURSES)** **30**

**NURSING:**

**VOCATIONAL/PRACTICAL**

**Associate in Arts or Science/ Certificate of Achievement**

**Mission Statement:** Prepare students for entry-level vocational nursing licensure and competent practice.

**Outcomes:**

- Synthesize theories and principles necessary for licensure as a vocational nurse.
- Development of critical thinking skills in preparation for the student's first job in vocational nursing.

*Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.*

Completion of the Vocational Nursing Program qualifies the student to take the national licensing examination for Vocational nurses (NCLEX-PN). A Licensed Vocational Nurse (Practical Nurse in all other states) is prepared for employment in ambulatory care settings (Physician's office, clinics); long term care (skilled nursing facilities, convalescent and residential care); rehabilitation facilities, acute care hospitals, psychiatric facilities, hospice, and in the home. A Licensed Vocational Nurse is qualified to apply to the Long Beach City College Associate Degree Nursing Program for the Career Ladder LVN-RN Program. For more information, call the School of Health and Science at (562) 938-4166.

Complete the following PREREQUISITE courses with a minimum grade of "C" or better:	UNITS
*BIO 60 Human Biology 1	4
VN 225 Nursing Applications of Pharmacology	3
^VN 215 Fundamentals of Nursing or	0-6
Certified Nursing Assistant (CNA) certificate issued by the State of California (Contact Nursing Department)	
VN 220 Transition to Vocational Nursing	4
<b>Subtotal Units</b>	<b>11-17</b>

Complete the following required courses with a minimum grade of "C" or better:

REQUIRED COURSES	UNITS
†°VN 240 Mental Health Nursing	3
†VN 230 Common Health Deviations 1	3
†VN 230L Common Health Deviations 1 Lab	3.5
†VN 235 Common Health Deviations 2	3
†VN 235L Common Health Deviations 2 Lab	3.5
†VN 245 Maternal/Infant Nursing	2
†VN 245L Maternal/Infant Nursing Lab	1
†VN 250 Nursing Care of Children	2
†VN 250P Nursing Care of Children Practicum	1
†VN 255 Common Health Deviations 3	3
†VN 255L Common Health Deviations 3 Lab	3.5
†VN 260 Roles and Responsibilities	1.5
†VN 265 Common Health Deviations 4	3
†VN 265L Common Health Deviations 4 Lab	3
<b>TOTAL UNITS</b>	<b>47-53</b>

For both the AA/AS and the Certificate of Achievement, the following courses are recommended, BUT ARE NOT REQUIRED to earn either.

VN 222 Intravenous Therapy	1
VN 266AD Nursing Skills Practice Lab	0.5

° This course may be taken prior to entering the program.

## OFFICE ASSISTANT

**Certificate of Achievement and/or Associate in Arts or Certificate of Accomplishment**

Please contact the department at (562) 938-4904 or go to the department website @ <http://caot.lbcc.edu> for information regarding the program.

## PHOTOGRAPHY

**Certificate of Achievement and/or Associate in Science**

**Mission Statement:** The mission of the Art and Photography Department at Long Beach City College is to provide students instruction in the visual arts whether beginning, advanced, or professional with a single class, general education courses, or a course of study, leading to

transfer, Associate Degree, or a vocational certificate. Students can pursue their individual interests in the visual arts through an array of foundation courses establishing a technical and critical understanding of visual language. These courses lead to improved personal creative expression or to specialized instruction in numerous areas within the creative and applied arts. The arts involve students in the process of their learning, demanding constant reflection and active participation. The arts enable students to collaborate toward a common purpose. The arts are a powerful connection force between disciplines. As our world and problems become more complex, creative thinking becomes all the more important.

### Outcomes:

- Produce professional quality photographic artwork that demonstrates skill, craftsmanship, comprehension of visual design, and aesthetic conceptual rigor.
- Develop a foundation of skills, craft, traditional and digital technologies where ideas and concepts are communicated through the production of photographic images.
- Analyze, interpret, and exercise critical judgment in the evaluation of visual artwork.

Students learn entry-level skills necessary to embark upon a career in the photography industry. It includes emphasis on practical applications leading to career advancement. This Certificate of Achievement will prepare students for an entry-level position in the field of commercial photography or to start their own photography business. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection will also facilitate transfer to a four-year college or university. For more departmental information call (562) 938-4802 or go to the department website @ <http://art.lbcc.edu/programs/photography>.

REQUIRED COURSES	UNITS
ART 31 Fundamentals of Art/Composition & Color	3
PHOT 31AB Basic Photography - Black & White(1 <sup>st</sup> Sem)	3
PHOT 32AD Basic Photography – Color (1 <sup>st</sup> Sem)	3
†PHOT 33AD Photography Studio Lighting (1 <sup>st</sup> Sem)	4
†PHOT 34AD Advanced Photography (1 <sup>st</sup> Sem)	4
†PHOT 35AD Photography for Publication (1 <sup>st</sup> Sem)	3
†PHOT 37AD Portrait Photography (1 <sup>st</sup> Sem)	4
†PHOT 42AD Experimental Photography Lab (1 <sup>st</sup> Sem)	4
†PHOT 43AD Digital Photography	3
<b>Subtotal Units</b>	<b>31</b>

**IN ADDITION, complete THREE (3) units from the following courses:**

^PHOT 71AD Work Experience-Photography	2
^PHOT 72AD Work Experience-Photography	3
^PHOT 73AD Work Experience-Photography	4
<b>Subtotal Units</b>	<b>3</b>

**IN ADDITION, complete NINE (9) units from the following courses:**

ART 81AD Intro to Fine Art Photography	3
PHOT 10 History of Photography	3
PHOT 31AB Basic Photography-Black & White(2 <sup>nd</sup> Sem)	3
PHOT 32AD Basic Photography – Color	3
†PHOT 33AD Photography Studio Lighting	4
†PHOT 34AD Advanced Photography-Applications	4
†PHOT 35AD Photography for Publication	3:3:3
†PHOT 37AD Portrait Photography (2 <sup>nd</sup> Sem)	3

PHOT 38 Marketing Professional Photography Skills	2
†PHOT 39AD Photography on Location (1 <sup>st</sup> Sem)	3
†PHOT 40AD Mastering the Photographic Print	4
†PHOT 41AD Professional Photographic Portfolio	4:4:4:4
†PHOT 42AD Experimental Photography Lab	4:4:4
†PHOT 43AD Digital Photography	3
†PHOT 281AD Photography Laboratory	Max of 3
<b>Subtotal Units</b>	<b>9</b>
<b>TOTAL UNITS</b>	<b>43</b>

## PHYSICAL EDUCATION/ RECREATION

### Associate in Arts

**Mission Statement:** In support of the college mission statement, the Physical Education department provides students with the knowledge, skills and attitudes necessary to improve fitness and wellness. The department believes that improved fitness and wellness are essential ingredients to improving the physical, cognitive, affective and recreational experiences of the student population. Improving these experiences in turn improves student success. Course offerings reflect the fact that fitness and wellness are life-long learning experiences. The Physical Education department also serves as an essential partner to both the athletic and intramurals programs by providing beyond the classroom experiences.

**Outcomes:**

- Students will demonstrate knowledge of rules, strategies, techniques, and etiquette of various activities to promote lifelong fitness.
- Students will demonstrate knowledge of basic aspects of a training/fitness program.
- Physical Education/Recreation majors will recognize various career opportunities in the field of human movement.
- Students will be able to define the many health related and skill related fitness components in an exercise program.

This field of concentration is designed to provide students with the knowledge, skill and experience to continue their education leading toward a Bachelor's degree in this major. Activities are designed to provide learning for students in the physical, cognitive, affective and recreational areas. For more departmental information call (562) 938-4378.

### TEACHING EMPHASIS

REQUIRED COURSES	UNITS
PEPP 1 Introduction to Physical Education <b>or</b>	2
PEPP 7 Introduction to Community Recreation	3
<b>Subtotal Units</b>	<b>2-3</b>

**IN ADDITION, complete FIFTEEN-SIXTEEN (15-16) units from at least FOUR of the following categories:**

Professional Preparation Category	
PEPF 8AD Aerobic Circuit Training	2.5
PEPF 83AD Fitness & Wellness I	2
PEPF 84AD Fitness & Wellness Center II	2
PEPP 5 Sports Appreciation	3
PEPP 10 Prevention & Care of Athletic Injuries	3
PEPP 15 Sports Officiating (Fall)	3

PEPP 17 Sports Officiating (Spring)	3
PEPP 19AD Theory of Football	2
PEPP 23 First Aid & Safety Education	3
PEPP 23M1 Child First Aid & Safety Education	1
PEPP 71AD,72AD, <b>or</b> 73AD Work Experience	2-4

### Aquatics Category

PEG 55AD Life Guard/Water Safety Training	4
PEG 75AD <b>or</b> 76AD Swimming	.5 or 1
PEPF 3AD <b>or</b> 4AD Water Aerobics and Training	.5 or 1
PEPF 41AD <b>or</b> 42AD Swimming Fitness	.5 or 1
PEPF 47AD <b>or</b> 48AD Swim Fitness/Polo	.5 or 1
PEPP 41 Aquatics (Coed)	2

### Individual & Dual Activities Category

*PEA 1AD PE for the Physically Limited	1
†PEPF 2AD Monitoring & Developing Sports Skills	1
*PEPP 13 <b>or</b> PEPF 5AD <b>or</b> 6AD Dance Aerobics	1, .5,1
*PEPP 29 <b>or</b> PEG 87AD <b>or</b> 88AD Cross Country <b>or</b> Track & Field (Men) <b>or</b>	1, .5,1
PEIA 19AD <b>or</b> 19M1 Cross Country, Track & Field (Men)	3
*PEG19AD <b>or</b> 20AD Bowling (Coed)	.5,1
*PEG 9AD <b>or</b> 10AD Badminton (Coed)	.5,1
*PEPP 51 <b>or</b> 31AD <b>or</b> 32AD Golf (Coed/Women) <b>or</b>	1, .5,1
PEIA9AD <b>or</b> 9M1 Golf (Coed/Men) <b>or</b>	3
PEIA 31AD <b>or</b> 31M1 Golf (Coed/Women)	3
*PEPP 53 <b>or</b> PEG 83AD <b>or</b> 84AD Tennis (Coed)	1, .5,1
*PEG 58AD Intramural Activities	1
*PEPP 65 <b>or</b> PEIA 43AD <b>or</b> 43M1 Track & Field (Women) <b>or</b>	1,3
PEG 87AD <b>or</b> 88AD Track & Field (Women) <b>or</b>	.5,1
PEIA 29AD <b>or</b> 29M1 Cross Country	3

### Fitness and Combatives Category

*PEG 65AD <b>or</b> 66AD Self Defense	.5,1
†PEPF 2AD Monitoring and Developing Sport Skills	1
*PEPF 3AD <b>or</b> 4AD Water Aerobics and Training	.5,1
*PEPF 5AD <b>or</b> 6AD Dance Aerobics	.5,1
PEPF 8AD Aerobic Circuit Training	2.5
PEPF 10AD Stretch and Relaxation	1
*PEPF 21AD <b>or</b> 22AD Physical Fitness	.5,1
*PEPF 41AD <b>or</b> 42AD Swim Fitness	.5,1
*PEPF 47AD <b>or</b> 48AD Swim Fitness/Polo	.5,1
*PEPF 53AD <b>or</b> 54AD Weight Training	.5,1
*PEPF 81AD Fitness & Wellness Center	1
*PEPF 83AD <b>or</b> 84AD Fitness & Wellness I, II	2,2

### Team Sports

†PEPF 2AD Monitoring and Developing Sport Skills	1
*PEPP 25 Baseball (Men) <b>or</b>	1
PEG 11AD <b>or</b> 12AD Baseball (Men) <b>or</b> PEIA 1AD <b>or</b> 1M1 Baseball (Men)	.5,1 3
*PEPP 27 Basketball (Men) <b>or</b>	1
PEG 13AD <b>or</b> 14AD <b>or</b> PEIA 3AD <b>or</b> 3M1 Basketball (Men)	.5,1,3
*PEPP 31 Football (Men) <b>or</b>	1
PEG 85AD <b>or</b> 86AD Football (Men) <b>or</b> PEIA 7AD <b>or</b> 7M1 Football (Men)	.5,1 3
*PEPP 35 Soccer (Men) <b>or</b>	1
PEG 69AD <b>or</b> 70AD Soccer (Men) <b>or</b> PEIA 13AD <b>or</b> 13M1 Soccer (Men)	.5,1 3

*Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.*



*PEPP 37 or PEIA 21AD Volleyball (Men) or PEG 89AD or 90AD Volleyball (Men)	1, 3 .5,1
*PEPP 55 Basketball (Women) or PEG 13AD Basketball (Women) or PEG 14AD or PEIA 27AD or 27M1 Basketball (Women)	1 0.5 1, 3
*PEG 58AD Intramural Activities	1
*PEPP 61 or PEIA 35AD or 35M1 Soccer (Women) or PEG 69AD or 70AD Soccer (Women)	1, 3 .5,1
*PEPP63 or PEIA37AD or 37M1 Softball(Women) or PEG 73AD or 74AD Softball (Women)	1, 3 .5,1
*PEPP 67 Volleyball (Women) or PEG 89AD or 90AD Volleyball or PEIA 45AD or 45M1 Volleyball (Women)	1 .5,1 3

**Any of:**

\*PEIA 23AD, 23M1, 29AD, 31AD, 47AD, 5AD, 5M1,  
9AD, 15AD, 17AD, 19AD, 39AD, 41AD, 43AD 3 or 1.5

**Outdoor Studies**

*PEOS 5AD Backpacking	1
*PEOS 55AD OR 56AD Nordic Skiing	.5,1
<b>Subtotal Units</b>	<b>15-16</b>
<b>TOTAL UNITS</b>	<b>18</b>

**NON-TEACHING EMPHASIS**

**REQUIRED COURSE: Complete EIGHTEEN (18) units from at least FOUR categories: (as listed under the TEACHING EMPHASIS)**

AQUATICS, INDIVIDUAL & DUAL ACTIVITIES, FITNESS & COMBATIVES, OUTDOOR STUDIES, PROFESSIONAL PREPARATION, TEAM SPORTS and, as a category, PEPP 1 & PEPP 7.

**TOTAL UNITS 18**

**PHYSICAL SCIENCES****Associate in Arts or Science**

**Mission Statement:** The Program Mission Statement is not available for the *Physical Sciences* program. Please contact the department for additional information.

Students are provided an introduction to the lower division course preparation for transfer to a baccalaureate degree in various physical science majors. This Associate Degree will prepare students for an entry-level position as environmental technician. Appropriate course selection will also facilitate transfer in a related major. For more departmental information call (562) 938-4957 or go to the department website @ <http://www.lbcc.edu/physical-science>.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
<b>Complete TWELVE-THIRTEEN (12 - 13) units from the following courses:</b>	
ASTR- All courses	
†CHEM-Ether CHEM 2, 3 or 1A but limited to only one of these courses	
ENVR 1	
PGEOG 1	
GEOL- All courses except GEOL 1 or 2+2L	
†PHYS-Except either PHYS 2A or 3A and either PHYS 2B or 3B	
<b>Subtotal Units</b>	<b>12-13</b>

**IN ADDITION, Complete a Computer class:**  
Computer Class- Any class which satisfied the computer portion of the Information Competency requirement for graduation. See the current General Education Course Pattern Guide for a complete listing of acceptable courses.

**Subtotal Units 1-4**

**IN ADDITION, Complete FIVE-SIX (5-6) units from any Mathematics course which has a prerequisite of Intermediate Algebra (MATH 130) or higher**

**Subtotal Units 5-6**

**TOTAL UNITS 18-23**

**NOTE:** Courses are offered each semester excluding the following: CHEM 12A and 12B are offered in alternating semesters starting with 12A in the fall semester. PHYS 2B is offered once each year, usually in the second semester. PHYS 3C is offered every third semester. GEOL 3 is offered every fourth semester. PGEOG 2 is offered once each year.

**RADIO/TELEVISION  
BROADCAST NEWS****Certificate of Achievement and/or Associate in Arts**

**Mission Statement:** This program's mission is to provide an academic (AA degree), a certificate, and the personal preparation for successful transfer to a university, Digital Media Arts, or Broadcast News program and to provide Vocational training and skills to successfully gain an internship or employment in the Radio/Television News and media entertainment/news industry, as well as to provide a General Education course necessary to fulfill transfer requirements, and to provide meaningful and vital opportunities and outreach to the community at large to engage in the creation of radio-television and multi-media news productions.

Students prepare for writing, editing and producing radio or television news and news feature programs. This Certificate of Achievement will prepare students for an entry-level position or skills for advancement in the fast growing field of Broadcast News and related information distribution elements of various industries. The Associate Degree will prepare students for career advancement in this field. Appropriate course selection will also facilitate transfer to a four-year college or university in communications, broadcast or journalism. For more departmental information call (562) 938-4309 or 938-4892.

<b>REQUIRED CORE COURSES</b>	<b>UNITS</b>
R_TV 1 Introduction to Broadcasting	3
R_TV 3 Using MAC Computer Entertainment Industry	2
R_TV 8 Intro to Media Production	3
R_TV 13AD Television Production	2
<b>Subtotal Units</b>	<b>10</b>

**REQUIRED COURSES FOR SPECIALITY**

R_TV 13AD Television Production	2
R_TV 14AD Electronic Field Production (2 sem req)	4
R_TV 25AD/35AD Radio/Television Activity(2 sem req)	4
R_TV 30AD Broadcast News Writing (take twice)	3
R_TV 36AD Broadcast News Production (take 3 times)	9
R_TV 40AD On Camera Performance	2
R_TV 71-73AD Work Experience	2-4
<b>Subtotal Units</b>	<b>26</b>

**IN ADDITION, complete SIX (6) units from the following:**

R_TV 2 Intro to Careers in Radio & Television	2
R_TV 4 Writing and Production Planning	3
R_TV 6 Critical Television Viewing	3
R_TV 12 Television Lighting	2
R_TV 15AC Advanced Television Production	2
R_TV17AD Special Projects in Radio/Television	1
R_TV 21 Radio Production	3
R_TV 34AD Music Video Production (2 Sem req)	2:2
R_TV 36AD Broadcast News Production	3
R_TV 37 Radio/Television Management and Sales	3
R_TV 71-73AD Work Experience	2-4
R_TV 216A-C Non-Linear Video & Film Editing	2
Other courses for area of specialization may be approved	
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>42</b>

**RADIO/TELEVISION  
PERFORMANCE**

**Certificate of Achievement and/or Associate in Arts**

**Mission Statement:** This program's mission is to provide an academic (AA degree), a certificate, and the personal preparation for successful transfer to a university, Digital Media Arts, or Broadcast Radio & Television program and to provide Vocational training and skills to successfully gain an internship or employment in the Radio/Television and media entertainment industry as an "on air" performer, as well as to provide a General Education course necessary to fulfill transfer requirements, and to provide meaningful and vital opportunities and outreach to the community at large to engage in the creation of radio-television and multi-media productions.

**Outcomes:**

- Analyze and demonstrate the physical characteristics of on air talent required to make an industry ready production segment.
- Critically assess the responsibilities of various creative and technical staff positions and evaluate the importance of each to the production.

Students prepare for performing in radio and television programs either independently or as part of a cast. This Certificate of Achievement will prepare students for an entry-level position and/or skills for advancement in a variety of performance opportunities including live, broadcast and recorded venues. The Associate Degree will prepare students for career advancement in this field. Appropriate course selection will also facilitate transfer to a four-year college or university in a broadcast, film or performance program. For more departmental information call (562) 938-4309 or 938-4892.

<b>REQUIRED CORE COURSES</b>	<b>UNITS</b>
R_TV 1 Introduction to Broadcasting	3
R_TV 3 Using MAC Computer Entertainment Industry	2
R_TV 8 Introduction to Media Production	3
R_TV 13AD Television Production	2
<b>Subtotal Units</b>	<b>10</b>

**REQUIRED COURSES FOR SPECIALITY**

R_TV 25AD or 35AD Radio/Television Activity	4
R_TV 34AD Music Video Production	2
R_TV 36AD Broadcast News Production	3
R_TV 40AD On Camera Performance (2 sem req)	4
R_TV 71-73AD Work Experience- Radio/TV	2
<b>Subtotal Units</b>	<b>15</b>

**IN ADDITION, complete FIVE (5) units from the following:**

R_TV 2 Intro to Careers in Radio & Television	2
R_TV 6 Critical Television Viewing	3
R_TV 12 Television Lighting	2
R_TV 14AD Electronic Field Production	2
R_TV 15AC Advanced Television Production	2
R_TV 17AD Special Projects in Television	1
R_TV 21 Radio Production	3
R_TV 30AD Broadcast News Writing	1.5
R_TV 34AD Music Video Production	2
R_TV 37 Radio/Television Management and Sales	3
R_TV 71-73AD Work Experience	2-4
Other courses for area of specialization may be approved	
<b>Subtotal Units</b>	<b>5</b>
<b>TOTAL UNITS</b>	<b>30</b>

**RADIO/TELEVISION  
PRODUCER**

**Associate in Arts and/or Certificate of Achievement**

**Mission Statement:** This program's mission is to provide an academic (AA degree), a certificate, and the personal preparation for successful transfer to a university, Digital Media Arts, or Broadcast Television & Radio program and to provide Vocational training and skills to successfully gain an internship or employment in the Radio/Television and media entertainment industry as a producer of media content, as well as to provide a General Education course necessary to fulfill transfer requirements, and to provide meaningful and vital opportunities and outreach to the community at large to engage in the creation of radio-television and multi-media productions.

Students prepare for producing radio or television programs either independently or in a production environment. This Certificate of Achievement will prepare students for an entry-level position or provide skills for advancement in a variety of venues including radio, television, film and related digital or computer technology (multimedia) in the communication, information and/or entertainment industries. The Associate Degree will prepare students for career advancement in this field. Appropriate course selection will also facilitate transfer to a four-year college or university in broadcast, film, computer animation or multimedia production. For more departmental information call (562) 938-4309 or 938-4892.

<b>REQUIRED CORE COURSES</b>	<b>UNITS</b>
R_TV 1 Introduction to Broadcasting	3
R_TV 3 Using MAC Computer Entertainment Industry	2
R_TV 8 Introduction to Media Production	3
R_TV 13AD Television Production	2
<b>Subtotal Units</b>	<b>10</b>

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

**REQUIRED COURSES FOR SPECIALITY**

R_TV 4 Writing and Production Planning	3
R_TV 14AD Electronic Field Production	2
R_TV 25AD/35AD Radio/Television Activity	2
R_TV 34AD Music Video Production	2
R_TV 36AD Broadcast News Production	3
R_TV 71/73AD Work Experience- Radio/TV	2
<b>Subtotal Units</b>	<b>14</b>

**REQUIRED ELECTIVES Select SIX (6) units from the following:**

R_TV 2 Intro to Careers in Radio & Television	2
R_TV 6 Critical Television Viewing	3
R_TV 12 Television Lighting	2
R_TV 13AD Television Production	2
R_TV 15AC Advanced Television Production	2
R_TV 17AD Special Projects in Radio/Television	1
R_TV 21 Radio Production	3
R_TV 30AD Broadcast News Writing	1.5
R_TV 34AD Music Video Production	2:2
R_TV 37 Radio/Television Management and Sales	3
R_TV 40AD On Camera Performance	2
Other courses for area of specialization may be approved	6
<b>Subtotal Units</b>	<b>6</b>
<b>TOTAL UNITS</b>	<b>30</b>

**CERTIFICATES OF ACHIEVEMENT****RADIO/TELEVISION****MULTIMEDIA PRODUCTION****REQUIRED CORE COURSES UNITS**

R_TV 1 Introduction to Broadcasting	3
R_TV 3 Using MAC Computer in Entertainment Indus	2
R_TV 8 Introduction to Media Production	3
R_TV 13AD Television Production	2
<b>Subtotal Units</b>	<b>10</b>

**REQUIRED COURSES FOR SPECIALITY**

ART 41 Introduction to Computer Graphics	3
MUSIC 59AD Digital Recording and Sampling Tech	2
<b>Subtotal Units</b>	<b>5</b>

**IN ADDITION, complete TEN (10) units from the following):**

†ART 43AD Beginning Website Design	3
MUSIC 94 Beginning Recording Techniques	2
MUSIC 98AD MIDI Music Production 1	2
†PHOT 43AD Digital Photography	3
†R_TV 2 Intro to Careers in Radio, TV & Multimedia	2
R_TV 4 Writing and Production Planning	3
R_TV 14AD Electronic Field Production	2
R_TV 21 Radio Production	3
R_TV 71-73AD Work Experience-Radio/TV	2-4
Other courses for area of specialization may be approved by the M/R_TV department chair.	
<b>Subtotal Units</b>	<b>10</b>
<b>TOTAL UNITS</b>	<b>25</b>

**REAL ESTATE****Associate in Arts, Certificate of Achievement and/or Certificate of Accomplishment**

**Mission Statement:** The mission of the Real Estate Program is to help students acquire the necessary knowledge and skills to begin, or enhance, a career in real estate, or for transfer to an upper-division real estate program at a 4-year college or university.

**Outcomes:**

- Comprehend the primary elements of the language and theories of real estate, while recognizing the importance of ethics, social responsibility, and diversity as legitimate real estate objectives.
- Use creative and critical-thinking strategies in the solution of complex real estate situations through the application of learned real estate concepts.
- Develop communication and teamwork skills for the purpose of ensuring future personal and professional success.

Career opportunities in real estate include jobs real estate sales, appraisal, lending, property management, development, title insurance and escrow. Careers in California as a real estate salesperson or real estate broker (including property management and sales of business opportunities) require all license from California Department of Real Estate ("DRE"). Before applying to take the Real Estate Salesperson Examination administered by DRE, applicants must complete courses in Real Estate Principles, Real Estate Practice, and one elective real estate course. Before applying with DRE to take the examination for a Real Estate Broker license, applicants must complete courses in Real Estate Practice, Appraisal, Legal Aspects of Real Estate, Finance, either Real Estate Economics or a general accounting course, and three elective real estate courses. See [www.dre.ca.gov](http://www.dre.ca.gov) for further information. Careers in California as a real estate appraiser require a license from the California Office of Real Estate Appraiser ("OREA"). See [www.orea.ca.gov](http://www.orea.ca.gov) for further information. Students can obtain the 150 hours of education in the specified appraisal subjects for the Trainee or Residential appraisal license by completing the Real Estate Principles, Real Estate Appraisal, Advanced Real Estate Appraisal and Real Estate Appraisal-USPAP courses offered in the Real Estate program. With additional courses identified on a transfer curriculum guide for Business Administration students can prepare for a baccalaureate degree with an option in this field. The Real Estate Career Certificate Program prepares the student for direct entry to the field of real estate sales, appraisal, property management, lending, or other support services. For more departmental information call (562) 938-4064 or go to the department website @ <http://lbcc.edu/business/real-estate>.

**REQUIRED COURSES UNITS**

REAL 78 Real Estate Economics <b>or</b>	3-4
ACCTG 1A Principles of Accounting <b>or</b>	4
ACCTG 200A Introduction to Accounting	3
REAL 80 Real Estate Principles	3
REAL 81A Real Estate Practices	3
REAL 83A Legal Aspects of Real Estate	3
REAL 85 Real Estate Appraisal	3
REAL 87 Real Estate Finance	3
<b>Subtotal Units</b>	<b>18-19</b>

**Complete NINE (9) units from the following:**

LAW 18A Business Law	3
MKTG 40 Salesmanship	3
REAL 84 Mortgage Brokering/Lending in California	3
REAL 86 Advanced Real Estate Appraisal	3
REAL 92A Escrows and Land Titles	3
REAL 253 Property Management	3
<b>Subtotal Units</b>	<b>9</b>
<b>TOTAL UNITS</b>	<b>27-28</b>

**CERTIFICATES OF ACCOMPLISHMENT:**

**Real Estate Appraisal Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
REAL 80 Real Estate Principles	3
REAL 83A Legal Aspects of Real Estate	3
REAL 85 Real Estate Appraisal	3
REAL 86 Advanced Real Estate Appraisal	3
<b>TOTAL UNITS</b>	<b>12</b>

**Real Estate Lending Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
REAL 80 Real Estate Principles	3
REAL 84 Mortgage Brokering/Lending in California	3
REAL 87 Real Estate Finance	3
REAL 92A Escrows and Land Titles	3
<b>TOTAL UNITS</b>	<b>12</b>

**Real Estate Property Management**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
REAL 80 Real Estate Principles	3
REAL 83A Legal Aspects of Real Estate	3
REAL 253 Property Management	3
REAL 78 Real Estate Economics	3
<b>TOTAL UNITS</b>	<b>12</b>

**Real Estate Salesperson**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
REAL 80 Real Estate Principles	3
REAL 81A Real Estate Practices	3
REAL 83A Legal Aspects of Real Estate	3
MKTG 40 Salesmanship	3
<b>TOTAL UNITS</b>	<b>12</b>

**SHEET METAL**

**Associate in Science and/or Certificate of Achievement**

**Mission Statement:** The Sheet Metal program's mission is to provide technical training to meet the demands of the industry and the needs of the individual to demonstrate entry level skills necessary for employment.

**Outcomes:**

- Perform a common sheet metal layout and fabrication project.
- Perform common metal fabrication using power machinery to produce a fabrication project.
- Demonstrate the ability to read and interpret construction blueprints.

The Associate Degree will prepare students for entry positions in sheet metal layout, fabrication and installation. The Core Skills Certificate of Achievement will prepare students for an entry-level position as a trainee in sheet metal layout, fabrication and installation. The Advanced Skills Certificate of Achievement will prepare students for an entry-level position as a trainee in sheet metal layout, fabrication and installation. This certificate will place added emphasis on sheet metal CNC fabrication, drafting and duct system layout and in preparation for acceptance into Sheet Metal Worker Apprenticeship program. For more departmental information call (562) 938-3051 or visit the department website @ <http://sheetmetal.lbcc.edu>.

**REQUIRED COURSES** **UNITS**

SHMET 220A Basic Sheet Metal Layout & Fabrication	or 4
SHMET 320M1 Basic Sheet Metal Layout & Fabrication	and 2
SHMET 320M2 Basic Sheet Metal Layout and Fabrication	2
▲SHMET 220B Advanced Sheet Metal Layout & Fabrication	4
▲SHMET 220C Power Metalworking Machine Operations	4
SHMET 221 Sheet Metal Blueprint Reading	2
WELD 480AD Welding (Inert Gas)	2
ELECT 253 OSHA Standards for Construction Safety	2
<b>TOTAL UNITS</b>	<b>18</b>

**CORE SKILLS CERTIFICATES OF ACHIEVEMENT REQUIREMENTS:**

**REQUIRED COURSES** **UNITS**

SHMET 220A Basic Sheet Metal Layout & Fabrication	or 4
SHMET 320M1 Basic Sheet Metal Layout & Fabrication	and 2
SHMET 320M2 Basic Sheet Metal Layout and Fabrication	2
▲SHMET 220B Advanced Sheet Metal Layout & Fabrication	4
▲SHMET 220C Power Metalworking Machine Operations	4
SHMET 221 Sheet Metal Blueprint Reading	2
WELD 480AD Welding (Inert Gas)	2
FORK 801 Forklift Safety and Operations	1
ELECT 253 OSHA Standards for Construction Safety	2
<b>TOTAL UNITS</b>	<b>19</b>

**RECOMMENDED but not required:**

DRAFT 201 Introduction to Drafting	4
ELECT 202 Electrical Mathematics	3
▲SHMET 220D Sheet metal CNC Fabrication Systems	4
SHMET 223 Sheet metal Duct Systems and Fabrication	3
SPEECH 20 Elements of Interpersonal Communication	3
SHMET 420AD Sheet Metal Fabrication	2
SHMET 421AD Sheet Metal Fabrication	1
SHMET 423AD Sheet Metal Fabrication	3
▲SHMET 271AD Work Experience Sheet Metal	2
▲SHMET 272AD Work Experience Sheet Metal	3
▲SHMET 273AD Work Experience Sheet Metal	4
WELD 400 Welding	2

**ADVANCED SKILLS CERTIFICATES OF ACHIEVEMENT REQUIREMENTS:**

**REQUIRED COURSES** **UNITS**

SHMET 220A Basic Sheet Metal Layout & Fabrication	or 4
SHMET 320M1 Basic Sheet Metal Layout & Fabrication	and 2
FORK 801 Forklift Safety and Operations	1
SHMET 320M2 Basic Sheet Metal Layout and Fabrication	2
▲SHMET 220B Advanced Sheet Metal Layout & Fabrication	4
▲SHMET 220C Power Metalworking Machine Operations	4
SHMET 221 Sheet Metal Blueprint Reading	2
WELD 480AD Welding (Inert Gas)	1
FORK 801 Forklift Safety and Operations	1
ELECT 253 OSHA Standards for Construction Safety	2
<b>Subtotal Units</b>	<b>26-28</b>

**IN ADDITION, complete SIX-SEVEN (6-7) units from the following:**

DRAFT 201 Introduction to Drafting	4
SPEECH 20 Elements of Interpersonal Communication	3
ELECT 202 Electrical Mathematics	3
<b>Subtotal Units</b>	<b>6-7</b>
<b>TOTAL UNITS</b>	<b>31-32</b>

**RECOMMENDED but not required:**

▲SHMET 271AD Work Experience Sheet Metal	2
▲SHMET 272AD Work Experience Sheet Metal	3

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

▲SHMET 273AD Work Experience Sheet Metal	4	<b>PHIL</b>	
SHMET 420AD Sheet Metal Fabrication	2	PHIL 6 or 6H Intro to Philosophy	3
SHMET 421AD Sheet Metal Fabrication	1	PHIL 7 or 7H Intro to Ethics	3
SHMET 423AD Sheet Metal Fabrication	3	PHIL 11 Critical Thinking	3
WELD 400 Welding	2	PHIL 12 Intro to Logic	3

## SOCIAL SCIENCES

### Associate in Arts

**Mission Statement:** To create an environment of educational inquisitiveness and critical assessment. To foster a socially and culturally aware, well-rounded student by improving program quality and improved student learning in the area of the Social Sciences.

#### Outcomes:

- Students will apply theories from the disciplines in the Social Science Program to analyze and explain human behavior as individuals and/or in groups.
- Students will be able to distinguish between fact and opinion, identify credible evidence, and analyze arguments.
- Students will apply perspectives and frameworks from the disciplines in the Social Science Program to explain and solve challenges related to accommodating and appreciating human diversity.

This field of concentration provides the student with a general education in the principles, concepts and methodologies of various disciplines (Anthropology, Economics, Geography, Philosophy, Psychology and Sociology). In addition, courses in these areas may partially satisfy general education and major requirements for a baccalaureate degree. This Associate Degree will prepare students for career advancement and will also facilitate transfer in a related major. For more departmental information call (562) 938-4477.

**REQUIRED COURSES** **UNITS**  
Complete **NINE (9)** units in **HISTORY** and **POLITICAL SCIENCE** courses numbered **1-99**. Complete at least **ONE** course from the **History** department and **ONE** course from the **Political Science** department.

**Subtotal Units** **9**

**IN ADDITION**, complete **NINE (9)** units in courses numbered **1-99** from the following departments. This must include at least **SIX (6)** units in **ONE** of the departments:

<b>ANTHR</b>	
ANTHR 1 Physical Anthropology	3
ANTHR 2 or 2H Cultural Anthropology	3
ANTHR 3 Intro to Archaeology	3

<b>ECON</b>	
ECON 1A or 1AH Macro Economics	3
ECON 1B or 1BH Micro Economics	3
ECON 4 Contemporary Economic Issues	3
ECON 5 The Global Economy	3

<b>GEOG</b>	
GEOG 2 Elements of Cultural Geography	3
GEOG 5 The Global Economy	3
GEOG 10 Intro to Geographic Information Systems	3
GEOG 40 World Regional Geography	3

<b>PSYCH</b>	
PSYCH 1 or 1H Intro to Psychology	3
†PSYCH 2 Research Methods for Psychology	3
PSYCH 4 Personal & Social Development	3
PSYCH 6 Physiological Foundation of Psychology	3
PSYCH 10 Human Sexuality	3
PSYCH 11 Social Psychology	3
PSYCH 14 Abnormal Psychology	3
PSYCH 33 Psychology of Personality	3

<b>SOCIO</b>	
SOCIO 1 or 1H Intro to Sociology	3
SOCIO 2 Modern Social Problems	3
SOCIO 11 Race & Ethnic Relations in the U.S.	3
SOCIO 13 Sociology of Latinos	3
SOCIO 40 Sociology of the Family	3

<b>SOCIAL SCIENCE/HUMANITIES</b>	
SOCSC 1/HUMAN 1 Comparative World Cultures	3
SOCSC 7/HUMAN 7 American Pluralism & Identity	3
<b>Subtotal Units</b>	<b>9</b>
<b>TOTAL UNITS</b>	<b>18</b>

## SPEECH COMMUNICATION

### Associate in Arts

**Mission Statement:** The Speech Communication Program firmly believes that experiential learning is the most effective means of achieving the lessons of human communication and is dedicated to ensuring that students enter the world better prepared to meet future communication challenges and opportunities.

#### Outcomes:

- Develop and apply critical thinking and persuasive communication strategies.
- Formulate and implement effective oral presentations.

Students are provided with a general education in the principles, concepts and methodologies of interpersonal/intercultural/group/leadership communication and informative/persuasive/argumentative interpretive speaking. For more departmental information call (562) 938-4438 or email aridenour@lbcc.edu or go to the department website @ <http://speech.lbcc.edu>.

<b>REQUIRED COURSES</b>	<b>UNITS</b>
SP 10 Elements of Public Speaking	3
SP 20 Elements of Interpersonal Communication	3
SP 25 Elements of Intercultural Communication	3
SP 30 Elements of Group Communication	3
SP 60 Elements of Argumentation & Debate	3
<b>Subtotal Units</b>	<b>15</b>

<b>IN ADDITION</b> , Select <b>THREE (3)</b> units from the following:	
SP 31 Elements of Leadership Communication	3
SP 50 Elements of Oral Interpretation	3
<b>Subtotal Units</b>	<b>3</b>
<b>TOTAL UNITS</b>	<b>18</b>

**RECOMMENDED but not required:**

ANTHR 2 Cultural Anthropology	3
MGMT 49A Intro to Management	3
MGMT 49B Human Resources Management	3
PSYCH 1 Introductory Psychology	3
PSYCH 11 Social Psychology	3
R_TV 40AD On-Camera Performance	2
SOCIO 1 Introduction to Sociology	3
†TART 1 Acting 1-Introduction to Acting	3

**THEATRE**

**ACTING, TECHNICAL & GENERAL**

**Associate in Arts and/or Certificate of Accomplishment**

**Mission Statement:** Students completing our program should be fully prepared to move on to a more advanced level in post-secondary institution or in the workforce.

**Outcomes:**

- A basic knowledge and experience of live performance synthesizing lower division level principles and theories of acting, production techniques, and creativity.
- A respect for theatre as a means of personal, cultural, or social expression.

Students learn skills necessary for jobs in the Theatre Arts field related to acting. For more departmental information call (562) 938-4563 or visit <http://tdf.lbcc.edu>.

**GENERAL EMPHASIS-A.A. DEGREE/TRANSFER**

REQUIRED COURSES	UNITS
TART 1 Acting-1 Introduction to Acting	3
TART 25 Introduction to Theatre	3
TART 51AD Theatre Forum(repeatable, take 2 times)1x2=	2
TART 39AD Theatre Practicum	1
<b>Subtotal Units</b>	<b>9</b>

Select a minimum of **FOUR (4)** units from the following:

†TART 49AD Rehearsal and Performance	1:1:1:1
TART 50AD Major Production Performance	2:2
TART 75AD Summer Repertory Theatre: Performance	1:1
TART 76AD Summer Repertory Theatre: Production	1
<b>Subtotal Units</b>	<b>4</b>

Select a minimum of **FOUR (4)** units from the following:

TART 40AD Stage Scenery	2
TART 42AD Stage Lighting	2
TART 43AD Costume Crafts	2
TART 55 Stage Make-up	2
<b>Subtotal Units</b>	<b>6</b>

Select a minimum of **SIX (6)** units from the following:

†TART 1B Acting -Movement	2
†TART 1B Acting -Movement	2
†TART 1C Acting -Voice	2
FILM 1 Introduction to Film	3
†TART 1D Acting-Improvisation	2
<b>Subtotal Units</b>	<b>6</b>

Select **ONE (1)** unit from the following:

DANCE 5B Beginning Tap	1
DANCE 10AB Fundamental of Ballet	1
DANCE 14AB Beginning Modern	1
DANCE 20AB Beginning Jazz	1

DANCE 3AD Musical Theatre Dance	1
DANCE 18AD Folk and Ethnic Dance	1
<b>Subtotal Units</b>	<b>1</b>

**ACTING ACADEMY**

**FIRST SEMESTER**

REQUIRED COURSES	UNITS
TART 1 Introduction to Acting	3
TART 25 Introduction to Theatre	3
TART 39AD Theatre Practicum	1
TART 49AD Rehearsal and Performance	1
†TART 51AD Theatre Forum	1
<b>Subtotal Units</b>	<b>9</b>

**SECOND SEMESTER**

REQUIRED COURSES	UNITS
†TART 1B Acting Movement	2
†TART 1C Acting Voice	2
†TART 1D Improvisation	2
TART 2 Acting Technique & Characterization	3
TART 39AD Theatre Practicum <b>or</b>	1
†TART 49AD Rehearsal and Performance	1
TART 51AD Theatre Forum	1
<b>Subtotal Units</b>	<b>11</b>

**THIRD SEMESTER**

REQUIRED COURSES	UNITS
DANCE 3AD Musical Theatre Dance <b>or</b>	1
DANCE 20AB Beginning Jazz	1
†TART 2A Acting/The Spoken text	2
†TART 2C Acting/Movement, Mime & Mask	2
TART 3A Acting/Scene Study	3
TART 50AD Major Production Performance	2
<b>Subtotal Units</b>	<b>10</b>

**FOURTH SEMESTER**

REQUIRED COURSES	UNITS
†TART 2D Acting/Movement, Mime & Mask	2
†TART 3B Acting/Workshop Style <b>or</b>	3
†TART 4 Acting/Workshop Style	3
†TART 49AD Rehearsal and Performance	1
TART 50AD Major Production Performance	2
TART 60AD Special Projects	2
†TART 205 Auditions for theatre & Film	3
<b>Subtotal Units</b>	<b>10</b>
<b>TOTAL UNITS</b>	<b>40</b>

**CERTIFICATES OF ACCOMPLISHMENT:**

**Vocational Media - Film Acting Certificate**

REQUIRED COURSES	UNITS
TART 1 <i>or ANY COMPARABLE LEVEL Acting 1 course</i>	3
†TART 201 Show Business Careers – How to Start	1.5
†TART 204 Marketing Yourself for Show Business	1.5
†TART 205 Audition for: Theatre & Film <b>or</b>	3
TART 206A Audition and Interview Skills – Begin <b>and</b>	1.5
TART 206B Audition and Interview Skills - Adv	1.5
†TART 212A Acting in Film - Beginning	1.5
†TART 212B Acting in Film - Advanced	1.5
<b>TOTAL UNITS</b>	<b>12</b>

Consult guides available online at <http://osca.lbcc.edu/curriculumguides> for specific general education and required grades.

**Vocational Media - Commercials Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
TART 1 <i>or ANY COMPARABLE LEVEL Acting 1 course</i>	3
†TART 201 Show Business Careers – How to Start	1.5
†TART 204 Marketing Yourself for Show Business	1.5
†TART 205 Audition for: Theatre & Film <b>or</b>	3
TART 206A Audition and Interview Skills – Begin <b>and</b>	1.5
TART 206B Audition and Interview Skills - Adv	1.5
†TART 208A Breaking into Commercials - Begin	1.5
†TART 208B Breaking into Commercials - Adv	1.5
<b>TOTAL UNITS</b>	<b>12</b>

**Vocational Media – Voice-Over Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
TART 1 <i>or ANY COMPARABLE LEVEL Acting 1 course</i>	3
†TART 201 Show Business Careers – How to Start	1.5
†TART 204 Marketing Yourself for Show Business	1.5
†TART 205 Audition for: Theatre & Film <b>or</b>	3
TART 206A Audition and Interview Skills – Begin <b>and</b>	1.5
TART 206B Audition and Interview Skills - Adv	1.5
†TART 210A Voice-Over Techniques - Beginning	1.5
†TART 210B Voice-Over Techniques - Advanced	1.5
<b>TOTAL UNITS</b>	<b>12</b>

**TOOL DESIGNER****Associate in Science/ Certificate of Achievement**

**Mission Statement:** The Program Mission Statement is not available for the *Tool Designer* program. Please contact the department for additional information.

**Outcomes:**

- Students will be able to establish mastery of basic knowledge and skills and apply advanced technologies relevant to entering the Tool Design field at an entry or advanced level.
- Students develop career awareness, planning, employability skills, work habits, and foundation knowledge necessary for success in the workplace.
- Students possess the necessary technical knowledge and communication skills to identify, articulate and solve problems pertaining to the industrial manufacturing environment and perform tasks required within the Tool Design professions.

Students prepare for entry-level positions as tool designers in the aerospace or comparable manufacturing industry. Tool designers generate conceptual designs for tools in conformance with defined current tooling engineering standards and practices. Tool designers plan the sequence of operations necessary to layout, fabricate and assemble cost effective tooling. For more departmental information call (562) 938-4718.

<b>LEVEL 1 - REQUIRED COURSES</b>	<b>UNITS</b>
AMECH 50A Machine Tool	3
DRAFT 201 Introduction to Drafting <b>or</b>	4
†DRAFT 51A Industrial Drafting I	3
*†ELECT 202 Electrical Mathematics <b>or</b>	3
†SHMET 220A Basic Sheet Metal Layout & Fabrication	4
*A more advanced or transferable math course. (Trigonometry is recommended.)	
<b>Subtotal Units</b>	<b>13-17</b>

<b>LEVEL 2 - REQUIRED COURSES</b>	<b>UNITS</b>
†DRAFT 51B Industrial Drafting II	3
†DRAFT 60 Geometric Dimensioning & Tolerancing	3
TEC 60AD Computer Aided Design and Drafting	3
<b>Subtotal Units</b>	<b>9</b>
<b>TOTAL UNITS</b>	<b>23-25</b>
<b>RECOMMENDED Courses but not required:</b>	
DRAFT 273 Work Experience- Mechanical Design	4
TEC 60AD Computer Aided Design & Drafting (CADD)	3

**WELDING TECHNOLOGY  
(Preparatory Program)****Associate in Science and/or Certificate of Achievement**

**Mission Statement:** To obtain the knowledge and skills necessary to acquire a degree or certificate for employment.

**Outcomes:**

- Perform common welds in the flat and vertical positions using oxygen and acetylene process.
- Perform common welds in the flat and vertical positions using gas tungsten arc welding (GTAW) process.
- Perform common welds in the flat and vertical positions using shielding metal arc welding (SMAW) process.

Students prepare for entry-level welding positions in aerospace, piping industry and construction. For more departmental information call (562) 938-3076 or 938-3054.

**Select Option ONE (1) or Option TWO (2):****Option #1**

<b>Complete 40 units from the following courses: UNITS</b>	<b>UNITS</b>
WELD 211 Fundamentals of Welding & Tools of Trade	9
WELD 212 Arc Welding and Fabrication	9
WELD 213 Advanced Arc Welding	9
WELD 214 Inert Gas Welding (Heliarc, MIG)	9
WELD 221 Arc Welding Structural Certification	4
WELD 400AD Welding (General)	2
WELD 410AD Welding (Arc)	2
WELD 460AD Welding (Gas Acetylene)	2
WELD 480AD Welding (Inert Gas)	2
SHMET 220A Basic Sheet Metal Layout and Fabrication	4
<b>TOTAL UNITS</b>	<b>40</b>

**Option #2****Complete 40 units from the following courses: UNITS**

SHMET 220 (4 units)	
IN ADDITION, Complete 36 units of Welding -18 units must be from 200 series listed above, balance of courses from any 200/400 welding series courses (no credit allowed for repetition of course).	36
<b>TOTAL UNITS</b>	<b>40</b>

**CERTIFICATES OF ACCOMPLISHMENT:****Advanced Arc Welder Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
WELD 213 Advanced Arc Welding	9
WELD 415AD Shielded Metal Arc Welding (SMAW) <b>or</b>	2
WELD 416AD Shielded Metal Arc Welding (SMAW)	2
<b>TOTAL UNITS</b>	<b>11</b>

*Additional Requirement: All of the required courses must be completed within 1.5 years.*

**Arc Welding Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
WELD 410AD Welding (ARC) (take 4 times)	2
<b>TOTAL UNITS</b>	<b>8</b>

*Additional Requirement: All of the required courses must be completed within 1.5 years.*

**Arc Welding and Fabrication Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
WELD 212 Arc Welding and Fabrication	9
WELD 413AD Shielded Metal Arc Welding (SMAW) <b>or</b>	2
WELD 414AD Shielded Metal Arc Welding (SMAW)	2
<b>TOTAL UNITS</b>	<b>11</b>

*Additional Requirement: All of the required courses must be completed within 1.5 years.*

**Gas Tungsten Arc Welding Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
WELD 214 Inert Gas Welding (GTAW)	9
WELD 480AD Welding (Inert Gas) (GTAW) <b>or</b>	2
WELD 482AD Gas Tungsten Arc Welding (GTAW)	2
<b>TOTAL UNITS</b>	<b>11</b>

*Additional Requirement: All of the required courses must be completed within 1.5 years.*

**Oxygen Acetylene Welding/Cutting Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
WELD 211 Fundamentals of Welding & Tools of the Trade	9
WELD 460AD Welding (Acetylene Gas)	2
<b>TOTAL UNITS</b>	<b>11</b>

*Additional Requirement: All of the required courses must be completed within 1.5 years.*

**Shielded Metal Arc Welding (Arc) Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
WELD 412AD Shielded Metal Arc Welding (ARC)	3
<b>TOTAL UNITS</b>	<b>12</b>

*Additional Requirement: All of the required courses must be completed within 2.5 years.*

**Structural Certification Certificate**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
WELD 221 Arc Welding Structural Certification	4
WELD 414AD Shielded Metal Arc Welding (SMAW)	2
<b>TOTAL UNITS</b>	<b>6</b>

*Additional Requirement: All of the required courses must be completed within 1.5 years.*

**WORD PROCESSING**

**Associate in Arts/ Certificate of Achievement or  
Certificate of Accomplishment**

Please contact the department at (562) 938-4904 or go to the department website @ <http://caot.lbcc.edu> for information regarding the program.



### Course Numbering System

Course numbers relate to the design of the class and applicability to degree and transfer programs.

1-599	Applicable to associate degree
1-99	Transferable for at least elective credit to any college having similar courses in its lower division curriculum.
100-199	Courses not intended for transfer but meeting a limited number of requirements for the AA/AS degrees.
200-299	Occupational courses intended to prepare students for immediate job entry.
300-399	Short term or short unit courses which parallel other 1-400 level courses.
400-499	Continuing education courses in occupational fields.
500-599	Vocational courses for apprentices.
600-699	Self-enrichment or basic skills courses which do not carry credit and for which no grade is awarded.
800-899	Courses in basic skills which have credit value that is not applicable to transfer or an associate degree.

Check with the catalog or a counselor if you have questions about course credit applicability.

Skills and performance courses in which enrollment may be repeated are designated with a fixed course number followed by letters indicating the number of times the course may be taken for credit. The following letters, when not separated by a hyphen, authorize enrollments as follows: AB = 2 semesters, AC = 3 semesters, AD = 4 semesters.

Courses which extend for more than one semester in length and in which each semester of the class contains different content have a fixed course number and a single letter indicating the specific semester of the course.

In some instances, a three-digit course number in the schedule of classes or on the transcript is not listed under the same course number in the catalog. In such cases, the course has been listed in the catalog with the first digit changed. For example, DRAFT205A in the catalog may be listed as 305A in the schedule of classes.

Some courses are modular courses. Such courses carry an additional designation: M1, M2, M3, M4, etc. Example: WELD 211M1, Introduction to Welding, is the first module of a class section listed in the schedule of classes for the primary course, WELD 211 (Introduction to Welding) as listed in this catalog.

### Course Prerequisites, Corequisites and Recommended Preparation

Prerequisites, corequisites and recommended preparation advice are listed with some courses in this catalog and the schedule of classes.

A **PREREQUISITE** is a course or assessment that must be completed before enrolling in the course or complete concurrently if that is permitted. Satisfactory completion of an assessment requires successful completion of the assessment process. Satisfactory completion of a prerequisite course requires a grade of CR, "C" or better.

If you have completed the prerequisite at another college or in high school, you must bring a copy of your official transcript to the Admissions and Records Office and ask for an equivalency evaluation before registering. You may challenge the prerequisite if you think you have knowledge and the ability to succeed in the course, particularly if you are drawing upon your work experience and wish to take a vocational course.

A **COREQUISITE** is a course in which you must be enrolled at the same time as the companion course. This is often the case in science classes which include a lab. Sometimes, you may be allowed to complete the corequisite course in a prior semester.

A **RECOMMENDED PREPARATION** statement is advice which the faculty want to give you.

### Challenging Course Requisites and Limitations

Challenging course requisites and/or limitations requires written documentation that explains the alternative course work, background and/or abilities that adequately prepare you for the course. You may obtain a Requisite Challenge form from the Admissions and Records Office. Reasons for challenging requisites or limitations must include one or more of the following:

1. A requisite course is not reasonably available over a period of several semesters;
2. You believe the requisite or limitation was established in violation of a regulation or District-approved process for establishing requisites and limitations;
3. You believe the requisite or limitation is discriminatory or being applied in a discriminatory manner; or
4. You have the documented knowledge or ability to succeed in the course.

File your Requisite Challenge form with the School Office or department head responsible for the course you want to enter. If space is available in the class at the time you file your challenge, you may register for the challenged course and the District will resolve your challenge in a timely manner. If your challenge is denied, you will be dropped from the challenged class. If no space is available in the challenged class at the time you file, the District will resolve your challenge prior to the beginning of registration for the next term. You may register in the challenged class during your

normal registration period if your challenge is approved.

**Curriculum Offerings**

The college reserves the right to determine which of the courses listed in the catalog are to be offered in each semester. Changes in curriculum or course content may occur after the printing of this catalog.

**To Be Arranged (TBA) Courses**

This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. This allows for specific lecture and/or lab instructional activities to be delivered through more flexible scheduling of days and times but for a specified number of hours and in accordance with the requirements and specific instructional activities of the course outline of record. This will be expected of all enrolled students. Please see the schedule of classes for the number of TBA hours to be completed for this course.

**Student Alert: Understanding Transfer Course Descriptions**

The phrase at the bottom of the course descriptions offered under "Courses of Instruction" must be read with care. Students should be aware of this key phrase, *Transferable to CSU/UC, see a counselor for limitations*. A course can transfer to the CSU or UC system as an elective part of a major and/or as general education credit. Since general education courses can be *certified* by LBCC when completed, students should consult pages 33-36 to see if the course is on the appropriate general education pattern. If the course is not found on the general education pattern, the course may be counted as part of the major or as an elective by the institution receiving the transfer student. It is the student's responsibility to select courses that meet his/her educational goals. The best advice for interpreting this phrase, therefore, is to *see a counselor*.

**Experimental Courses**

The descriptor “Experimental” applies college-wide and is issued as a curricular placeholder identified by a standard number (98, 298 or 898) and by the general heading Experimental (X). These courses provide an opportunity for curriculum experimentation and innovation.

While the Experimental course option offers a department curricular opportunities, it also has some limitations, particularly for students.

Credits are degree applicable (X 98, 298) as elective credits only.

Credits are transferable (X 98) as elective credits only.

Experimental courses cannot be placed on a program’s curriculum guide.

Experimental courses cannot be used as a pre- or corequisite for another course.

Experimental courses cannot apply to a certificate or degree requirement.

For courses numbered 898, the units of credit may be used for workload purposes but may not be applied to any certificate or degree.

**California Articulation Number (CAN)**

Some courses are identified with the California Articulation Number (CAN). This identifies some of the transferable, lower division, introductory (preparatory) courses commonly taught within each academic discipline on California college campuses.

Lists of courses from campuses who have qualified to participate in the CAN system are available in the Counseling offices. The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN course on another participating campus. For example: CAN ECON 2 on one campus will be accepted for CAN ECON 2 on another participating campus. Each campus retains its own numbering system.

<b>LBCC Course</b>	<b>CAN Course</b>
ACCTG 1A & 1B.....	CAN BUS SEQ A
ADJUS 2.....	CAN AJ 2
ADJUS 4.....	CAN AJ 4
ADJUS 8.....	CAN AJ 8
ANAT 1 & PHYSI 1.....	CAN BIOL SEQ B
ANAT 1.....	CAN BIOL 10
ANTHR 1.....	CAN ANTH 2
ANTHR 2.....	CAN ANTH 4
ART 1 & 2.....	CAN ART SEQ A
ART 1.....	CAN ART 2
ART 2.....	CAN ART 4
ART 15.....	CAN ART 8
ART 19AD.....	CAN ART 24
ART 23.....	CAN ART 10
ART 30.....	CAN ART 16
ART 31.....	CAN ART 14
ART 35AD.....	CAN ART 26
ART 50.....	CAN ART 6
ART 60.....	CAN ART 12
BIO 1A & 1B.....	CAN BIOL SEQ A
BIO 2.....	CAN BIOL 14
CHEM 1A & 1B.....	CAN CHEM SEQ A
CHEM 1A.....	CAN CHEM 2
CHEM 1B.....	CAN CHEM 4
CHEM 3A & 3B.....	CAN CHEM SEQ B
CHEM 3A.....	CAN CHEM 6
CHEM 3B.....	CAN CHEM 8
CHIN 1 & 2.....	CAN CHIN SEQ A
CHIN 1.....	CAN CHIN 2
CHIN 2.....	CAN CHIN 4
ECON 1A.....	CAN ECON 2
ECON 1B.....	CAN ECON 4
ENGL 1 & 2.....	CAN ENGL SEQ A
ENGL 1.....	CAN ENGL 2
ENGL 2.....	CAN ENGL 4
ENGL 26.....	CAN ENGL 6
ENGL 41 & 42.....	CAN ENGL SEQ C
ENGL 41.....	CAN ENGL 14
ENGL 42.....	CAN ENGL 16
ENGL 46 & 47.....	CAN ENGL SEQ B
ENGL 46.....	CAN ENGL 8
ENGL 47.....	CAN ENGL 10
ENGR 17.....	CAN ENGR 12

<b>LBCC Course</b>	<b>CAN Course</b>		
ENGR 17 & 17L	CAN ENGR 6	SP 10	CAN SPCH 4
ENGR 35	CAN ENGR 8	SP 30	CAN SPCH 10
FD 10	CAN FCS 6	SP 60	CAN SPCH 6
FD 20	CAN FCS 22	SPAN 1 & 2	CAN SPAN SEQ A
FREN 1 & 2	CAN FREN SEQ A	SPAN 1	CAN SPAN 2
FREN 1	CAN FREN 2	SPAN 1A, 1B, 2A & 2B	CAN SPAN SEQ A
FREN 1A, 1B, 2A & 2B	CAN FREN SEQ A	SPAN 2	CAN SPAN 4
FREN 2	CAN FREN 4	SPAN 3 & 4	CAN SPAN SEQ B
FREN 3 & 4	CAN FREN SEQ B	SPAN 3	CAN SPAN 8
FREN 3	CAN FREN 8	SPAN 4	CAN SPAN 10
FREN 4	CAN FREN 10	STAT 1	CAN STAT 2
F_N 20	CAN FCS 2	TART 1	CAN DRAM 8
F_N 21	CAN FCS 8	TART 2	CAN DRAM 22
GEOG 2	CAN GEOG 4	TART 25	CAN DRAM 18
GEOL 2 & 2L	CAN GEOL 2	TART 40AD	CAN DRAM 12
GER 1 & 2	CAN GERM SEQ A	TART 55	CAN DRAM 14
GER 1	CAN GERM 2		
GER 2	CAN GERM 4		
GER 3/3H & 4/4H	CAN GERM SEQ B		
GER 3/3H	CAN GERM 8		
GER 4/4H	CAN GERM 10		
HIST 1A & 1B	CAN HIST SEQ A		
HIST 1A	CAN HIST 2		
HIST 1B	CAN HIST 4		
HIST 10 & 11	CAN HIST SEQ B		
HIST 10	CAN HIST 8		
HIST 11	CAN HIST 11		
ITAL 1	CAN ITAL 2		
ITAL 2	CAN ITAL 4		
JAPAN 1 & 2	CAN JAPN SEQ A		
JAPAN 1	CAN JAPN 2		
JAPAN 2	CAN JAPN 4		
JOURN 10	CAN JOUR 4		
JOURN 20	CAN JOUR 2		
LAW 18A	CAN BUS 8		
MATH 28	CAN MATH 4		
MATH 36	CAN MATH 2		
MATH 37	CAN MATH 12		
MATH 40	CAN MATH 8		
MATH 45	CAN MATH 10		
MATH 47	CAN MATH 34		
MATH 50	CAN MATH 16		
MATH 60 & 70	CAN MATH SEQ B		
MATH 60, 70, & 80	CAN MATH SEQ C		
MATH 60	CAN MATH 18		
MATH 70	CAN MATH 20		
MATH 80	CAN MATH 22		
PEPP 7	CAN REC 2		
PEPP 23	CAN KIN/PE 8		
PGEOG 1	CAN GEOG 2		
PHIL 6	CAN PHIL 2		
PHIL 7	CAN PHIL 4		
PHIL 12	CAN PHIL 6		
PHYS 2A & 2B	CAN PHYS SEQ A		
PHYS 3A, 3B & 3C	CAN PHYS SEQ B		
PHYSI 1	CAN BIOL 12		
POLSC 1	CAN GOVT 2		
PSYCH 1	CAN PSY 2		
PSYCH 2	CAN PSY 8		
SOCIO 1	CAN SOC 2		
SOCIO 2	CAN SOC 4		
SOCIO 40	CAN FCS 12		

**Course Prefix Listing**

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## CURRICULUM OFFERINGS

The courses offered in this catalog may not be offered every term or every year. If a course is not offered every term you will see a note at the end of the catalog description to tell you when the course is usually offered. Check the Schedule of Classes for our current term offerings.

### ACCOUNTING (ACCTG)

#### ACCTG 1A (Part of CAN BUS SEQUENCE A) 4.0 units

##### Principles of Accounting

5.0 hours lecture

Recommended Preparation: ACCTG 200A or one year of bookkeeping.

Grading: letter grade

The course presents the study of methods and techniques used in analyzing, recording and summarizing those procedures used in preparing a balance sheet along with the statements of income, retained earnings and cash flow for a corporation. Further, this course describes and illustrates financial accounting principles including classification of accounting activities, recording of financial transactions, along with the presentation of the four basic financial statements for internal and external users with an emphasis on the corporate form business entity. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

#### ACCTG 1B (Part of CAN BUS SEQUENCE A) 4.0 units

##### Principles of Accounting

5.0 hours lecture

Prerequisite: ACCTG 1A

Grading: letter grade

Topics in this course include accounting theory and practice for manufacturing, departmental, and cost accounting techniques; performance evaluation; profit reporting and analysis; interpretation of financial statements and budgets; product pricing and performance evaluation; capital investment analysis; and business ethics. This course provides students with information and techniques used by management in evaluating the daily operations and related costs of a business, in planning future operations, making decisions, and developing overall business strategies. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

#### ACCTG 200A 3.0 units

##### Introduction to Accounting

3.0 hours lecture

Grading: letter grade

This course provides a general understanding of the accounting principles for a sole proprietorship enterprise, with the principle business activity being that of providing services, using a double entry system and the accrual method for recording financial transactions. The course will also introduce students to accounts, ledgers, journal entries, trial balances, annual closing, special journals and those financial statements utilized in

a sole proprietorship business. This course will give students a foundation for vocational accounting and a general understanding of business activities.

#### ACCTG 205 3.0 units

##### Fundamentals of Tax

3.0 hours lecture

Grading: letter grade

Students will learn to prepare federal and state income tax returns for individuals. This course emphasizes the practical use of tax forms and supporting schedules and also reflects the most recent changes in the Internal Revenue Code.

#### ACCTG 228 2.0 units

##### Computerized Gen Ledger Account Systems

2.0 hours lecture, 1.0 hour laboratory

Prerequisite: ACCTG 1A or ACCTG 200A

Grading: letter grade

This course provides students with experience using a commercial general ledger accounting program.

#### ACCTG 229 3.0 units

##### Spreadsheet Accounting

3.0 hours lecture, 1.0 hour laboratory

Prerequisite: ACCTG 200A or ACCTG 1A or ACCTG 201A-B

Recommended Preparation: Working knowledge of Microsoft Excel or CAOTC 41E.

Grading: letter grade or pass/no pass

The course will cover the functions and features of Excel most commonly used in Accounting/Finance applications. Many of the routine manual functions studied in the Financial Accounting course will be automated by using Microsoft Excel. Instruction will focus on preparing financial Excel models and templates that are functional, flexible, and easily maintainable. Refresher lectures will be presented on the Accounting topics specific to the Excel modeling assignments.

#### ACCTG 230 1.0 unit

##### Quickbooks Accounting

1.5 hours lecture, 0.5 hour laboratory

Recommended Preparation: General familiarity and use of a PC

Grading: letter grade or pass/no pass

Intro to basic small business accounting concepts and to a complete accounting software system. Provides hands-on exposure to the major features of the Quickbooks accounting software accompanied by instruction in the accounting concepts being employed.

#### ACCTG 400 3.0 units

##### Personal Financial Management

3.0 hours lecture

Grading: letter grade

This course is designed for students interested in learning concepts and skills relevant to effective personal financial management. These topics include saving, budgeting, debt management, retirement planning, insurance, home buying, investment and estate planning. This is a hands on course involving problem solving in the above areas. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADMINISTRATION OF JUSTICE  
(ADJUS)**

**ADJUS 2 (CAN AJ 2) 3.0 units**

**Introduction, Administration of Justice**

3.0 hours lecture

Grading: letter grade

The history and philosophy of the criminal justice process and its relationship to our dual court system is discussed. The role relationship and inter-dependency of the Criminal Justice System components is reviewed. The historical concepts of criminality, punishment and rehabilitation are compared and contrasted. The significance of professionalism and its impact upon the relationship between the community and agents of the Criminal Justice System is emphasized.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ADJUS 3 3.0 units**

**Introduction to Criminal Procedures**

3.0 hours lecture

Grading: letter grade

This course covers legal processes from pre-arrest through trial, sentencing and correctional procedures. The course will review the history of case and common law, conceptual interpretations of law as reflected in court decisions, case law methodology and case research as the decisions impact upon the procedures of the justice system.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 4 (CAN AJ 4) 3.0 units**

**Criminal Law**

3.0 hours lecture

Grading: letter grade

The course focuses on the historical development and philosophy of law and constitutional provisions. Definitions, classification of crimes and their applications to the system of administration of justice is covered. Legal research, methodology and concepts of law as a social force are reviewed.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ADJUS 5 3.0 units**

**Community and Human Relations**

3.0 hours lecture

Grading: letter grade

This course is designed to explore the changing role and relationship between the agents of the Criminal Justice System and the community. Human behavior, cultural diversity, communication skills and the discretionary enforcement of the law are discussed in conjunction with the need to maintain community trust, faith and confidence.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ADJUS 6 3.0 units**

**Introduction to Evidence**

3.0 hours lecture

Grading: letter grade

The course covers the historical development, philosophy and constitutional basis of evidence, constitutional and procedural considerations affecting arrest, search and seizure, kinds and degrees of evidence and rules governing admissibility. Judicial decisions

interpreting case studies of individual rights are also evaluated from a conceptual perspective.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 8 (CAN AJ 8) 3.0 units**

**Introduction to Investigation**

3.0 hours lecture

Grading: letter grade

The course covers fundamentals of investigation, techniques of crime scene search, recording and documentation, and collection and preservation of physical evidence. Modus operandi processes, sources of information, suspect interviewing and interrogation and follow-up investigation are additionally covered.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 10 3.0 units**

**Writing for Criminal Justice**

3.0 hours lecture

Grading: letter grade

The course focus is developing effective communication skills in writing for the Criminal Justice System. The elements of effective report writing, including grammar, punctuation and spelling are emphasized. The importance of crime scene interviewing, recording and documentation are covered relating to the preparation of report writing and courtroom testimony.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 12 3.0 units**

**Crime and Delinquency**

3.0 hours lecture

Grading: letter grade

This course focuses on the classifications of criminal behavior, characteristics of offenders and societal factors which contribute to crime and delinquency. The role of the criminal justice system and its relationship to the changing philosophy of crime control and treatment processes is also covered. Students who have taken SOCIOLOGY 12 may not take this course for credit.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ADJUS 14 3.0 units**

**Juvenile Law and Procedures**

3.0 hours lecture

Grading: letter grade

The course focus is juvenile justice and delinquency in America and how our Juvenile Justice System deals with juvenile offenders. Juvenile delinquency prevention and repression techniques are also covered. Delinquency diagnosis and referral is reviewed in conjunction with the availability of community resources to combat the problem. Juvenile law and related court procedures are also discussed.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 16 3.0 units**

**Vice, Narcotics and Organized Crime**

3.0 hours lecture

Grading: letter grade

This course will focus on the relationship between organized crime and the community. Covert criminal activities and their impact upon our social structure is also reviewed. Related criminal activities to organized crime, including vice, narcotics and white collar crime

and their political influence on our legal system, are also discussed.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 17 3.0 units**

**Computer Use in Criminal Justice**  
2.0 hours lecture, 3.0 hours laboratory  
Grading: letter grade

The course focus is communications technology in the Criminal Justice System. Computer operations, wireless communications and geographic systems are emphasized. Ethical, legal and privacy issues that impact communications technology will also be covered. The computer assisted dispatch system, terminology, concepts and technology will also be included in this course.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 18 3.0 units**

**Police Field Operations**  
3.0 hours lecture  
Grading: letter grade

The history and development of patrol philosophy; planning for field activities to include the functions of patrol, traffic and other preliminary investigative duties of the field officer are discussed. Emphasizes techniques for planning patrol activities, handling complaints and requests for services, mechanics of field interviews, searches and arrests, the handling of traffic related problems, civil and domestic disturbances and other community crime incidents.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 19 3.0 units**

**Fingerprint Classif & Identification**  
3.0 hours lecture  
Grading: letter grade

This course emphasizes the basics of fingerprinting, pattern interpretation, classification, sequencing and file searching based on the Henry Numerically Coded Formula and National Crime Information Center systems. Develop, photograph and lift fingerprints, prepare court displays and expert testimony.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 20 3.0 units**

**Introduction to Corrections**  
3.0 hours lecture  
Grading: letter grade

The course focus is a survey of the correctional science field. The early history and development of corrections is reviewed. Correctional theory and practice are discussed relative to potential causes of criminal behavior. Additionally, the criminal justice system processes relating to incarceration, probation and parole and their influence upon the offender's behavior and career opportunities are evaluated.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 40 3.0 units**

**Street Gangs and Law Enforcement**  
3.0 hours lecture  
Grading: letter grade

This course provides an overview of the "Gang" problem in society. The historical perspective and cultural and societal dynamics of gang involvement will be reviewed. Law enforcement tactics, court injunctions, prosecution, intelligence gathering and gang intervention are all emphasized.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 45 3.0 units**

**Drug Abuse and Law Enforcement**  
3.0 hours lecture  
Grading: letter grade

This course is designed to create an awareness of drug abuse in society. The historical perspective of controlled substance abuse is reviewed. Classification of drugs, symptomatic indicators of drug abuse and addiction are emphasized. The relationship between drug abuse, crime and law enforcement intervention is further discussed. Controlled substance abuse and the tactical response of the Criminal Justice System is also covered.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 61AD 1.0 unit**

**Defensive Tactics**  
0.7 hour lecture, 1.3 hours laboratory  
Grading: letter grade

This course is designed to increase the knowledge, tactics and personal skill in the use of weaponless defense. Holds, restraints, take-downs and come-a-longs are covered to defend against combative individuals with dangerous weapons. Disarming methods, the use of the baton and transportation of those in custody are also emphasized.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 62AB 1.0 unit**

**Firearms**  
3.0 hours laboratory

Prerequisite: ADJUS 2 and the student must successfully complete a Department of Justice, "Live Scan" background criminal history check and meet the agency requirements for background clearance.

Grading: letter grade

This course provides a background on Federal, State and local authority relating to the use of force in gaining compliance to the law. It also explains the "use of force paradigm" and the legal and moral aspects of the use of deadly force. Students develop basic firearms competence and proper safety procedures. Students also become familiar with special weapons, types of ammunition and protective devices used in law enforcement.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADJUS 200 3.0 units**

**Constitutional Law for Criminal Justice**  
3.0 hours lecture  
Grading: letter grade

This course is designed to give an "in depth" review and analysis of significant Constitutional amendments in the Bill of Rights, as they relate to and impact professionals in the Criminal Justice System. The course content will provide a strong foundation for the student who is interested in a career in Criminal Justice.



**ADJUS 201 0.5 unit**

**Civilian Employee Orientation**

0.9 hour lecture

Grading: letter grade or pass/no pass

Designed to orient civilians employed by law enforcement agencies to the policies and procedures of police organizations. Covers the various divisions within police departments and the roles employers have in the success of the organization.

**ADJUS 210 2.0 units**

**Police Services Assistant Training**

4.4 hours lecture

Prerequisite: ADJUS 250

Grading: pass/no pass

This course provides the basic training necessary for the civilian position of police services assistant for local law enforcement agencies. The course includes report writing, court procedures and testimony, radio codes and procedures, interview techniques, accident investigation and other skills necessary for this career. The course emphasizes career preparation.

**ADJUS 250 15.0 units**

**Basic Law Enforcement Training**

30.9 hour lecture

Grading: pass/no pass

This course includes: basic in-service training in cooperation with the Long Beach Police Academy covering the fundamentals of law enforcement, administration of justice, criminal law, evidence, investigations, patrol procedures, traffic control, juvenile law and procedures, defensive tactics, firearms, first aid and police-community relations. Meets the requirements of the California Commission on Peace Officers Standards and Training for the basic certificate.

**ADJUS 250L 5.0 units**

**Basic Law Enforcement Training**

30.2 hour laboratory

Grading: pass/no pass

This course includes basic in-service training in cooperation with the Long Beach Police Academy covering the fundamentals of defensive tactics, firearms, patrol procedures and first aid procedures. The course meets the requirements of the California Commission on Peace Officers Standards and Training for the basic certificate.

**ADJUS 251 7.0 units**

**Reserve Officer Training-Level II**

13.8 hours lecture, 6.7 hours laboratory

Grading: pass/no pass

Police training for intermediate certification by POST, Level III. A basic overview and update of professionalism, ethics and the criminal justice system including law enforcement and courts. Discretionary decision making, review of legal statutes, laws of evidence, investigations, firearms, safety, community relations, communications, arrest and control are discussed.

**ADJUS 252 5.0 units**

**Reserve Officer Training Level III**

8.3 hours lecture, 2.8 hours laboratory

Grading: pass/no pass

The fundamentals of police training for the intermediate certification by POST, Level III. A basic overview and update of the professionalism, ethics and the criminal justice system including law enforcement and the courts.

Discretionary decision making, review of legal statutes, laws of evidence, investigations, firearms, safety, community relations, communications, arrest and control are discussed.

**ADJUS 253 3.0 units**

**Understanding Domestic Violence**

3.0 hours lecture

Grading: letter grade

This course offers insights into the causes, behaviors and problems associated with domestic violence. Addresses the who, what and why of this behavior. Covers the subject from the law enforcement perspective. Designed for those interested in or working in the fields of criminal justice or helping services.

**ADJUS 254 8.0 units**

**Reserve Officer Training Level I**

15.3 hours lecture, 6.9 hours laboratory

Grading: pass/no pass

The fundamentals of police training for reserve officers. An overview of professional orientation, community relations, law, laws of evidence, communications, vehicle operation, force and weaponry, patrol procedures, traffic, criminal investigation, custody, drill and formation. Review of legal elements of crime, report writing, advanced weaponry, first aid and CPR, discretionary decision-making and an overview of operations. Meets the requirements of the California Commission on Peace Officers Standards and Training for Reserve level I, II, III certification and assignment.

**ADJUS 255 3.0 units**

**Introduction to Forensics**

3.0 hours lecture

Grading: letter grade

This course is an introduction to multiple contemporary scientific methodologies utilized in the development of criminal case investigations. This class is appropriate to administration of justice majors, and others with a specific interest in forensic methods.

**ADJUS 269 3.0 units**

**Pre-Employment Preparation for Law Enforcement**

3.0 hours lecture

Grading: pass/no pass

Students contemplating a future within the various components of the Criminal Justice System will be provided with both a practical and realistic opportunity to gain insight and understanding into the initial preparation, testing, evaluation, academy curriculum content and processing for entry level positions within the Justice System.

**ADJUS 271AD 2.0 units**

**Work Experience — Admin of Justice**

1.0 hour lecture, 4.1 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: pass/no pass

This course is designed for the student contemplating a career within the Criminal Justice System. Students will be provided with a practical, "On the Job", "Volunteer" experience allowing them to compare and confront the challenges of those in the Justice System. Lecture relates to work experience objectives, career goals and daily

employment issues. Lab involves O.J.T. practical experience through daily work related activities scheduled by students.

**ADJUS 272AD 3.0 units**

**Work Experience — Admin of Justice**

1.0 hour lecture, 8.3 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Grading: pass/no pass

This course is designed for students preparing to enter the Criminal Justice System. Students will be provided with a practical, "On the Job", "Volunteer" experience allowing them to compare and confront the challenges of those in the Justice System. Lecture relates to work experience objectives, career goals and daily employment issues.

**ADJUS 273AD 4.0 units**

**Work Experience — Admin of Justice**

1.0 hour lecture, 12.5 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Grading: pass/no pass

This course is designed for students preparing to enter the Criminal Justice System. Students will be provided with a practical, "On the Job", "Volunteer" experience allowing them to compare and confront the challenges of those in the Justice System. Lecture relates to work experience objectives, career goals and daily employment issues.

**ADJUS 301 1.5 units**

**Police Field Operations-FTO**

1.7 hours lecture, 0.6 hour laboratory  
Prerequisite: ADJUS 250  
Grading: pass/no pass

For in-service personnel to develop skills necessary for field training officers. Includes communication, writing, administration and evaluation training. Meets requirements for Peace Officer Standards and Training requirements. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADJUS 302 2.0 units**

**Police Field Operations: Motorcycle Trng**

1.1 hours lecture, 3.3 hours laboratory  
Prerequisite: ADJUS 250  
Grading: pass/no pass

This course teaches motor officer candidates the skill points of safety of traffic law enforcement on a police motorcycle.

**ADJUS 305M1 0.5 unit**

**Community/Human Relations-Verbal Judo**

1.0 hour lecture  
Prerequisite: ADJUS 250  
Grading: pass/no pass

This course is an introduction to the use of verbal skills in community and human relations. Students will learn to use words to facilitate communications with clients of the criminal justice system. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADJUS 305M2 2.0 units**

**Community/Human Relations-Conduct Update**

2.2 hours lecture  
Prerequisite: ADJUS 250  
Grading: pass/no pass

Enhance a police officer's understanding and awareness relative to community culture and needs, focusing on contemporary issues affecting law enforcement and emphasizing customer service and interpersonal skills.

**ADJUS 319 0.5 unit**

**Fingerprint Classif & Ident/Latent Print**

0.5 hour lecture  
Prerequisite: ADJUS 250  
Grading: pass/no pass

This course teaches basics of fingerprinting, pattern interpretation, methods of recording and lifting fingerprints, preparation of court displays and expert testimony.

**ADJUS 350 4.0 units**

**Basic Police Trng-Probation Procedure**

8.8 hours lecture, 2.2 hours laboratory  
Prerequisite: ADJUS 250  
Grading: pass/no pass

Basic in-service training for probation officers, including fundamentals of probation procedures, criminal law, report writing, court presentations, and case management. Meets the requirements of the California Commission on Peace Officers Standards and Training.

**ADJUS 350M1 3.5 units**

**Basic L.E. Training-SWAT**

3.3 hours lecture, 1.6 hours laboratory  
Prerequisite: ADJUS 250  
Grading: pass/no pass

This course is designed to acquaint students with operations encountered by members of special weapons and tactics (SWAT) teams. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADJUS 350M2 3.5 units**

**Basic Law Enforcement Training — SWAT II**

3.3 hours lecture, 1.6 hours laboratory  
Prerequisite: ADJUS 250  
Grading: pass/no pass

This course acquaints students with advanced operations of special weapons and tactics (SWAT) teams. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADJUS 400A 0.5 unit**

**Special Topics Administration of Justice**

1.0 hour lecture, 1.0 hour laboratory  
Prerequisite: ADJUS 250  
Grading: pass/no pass

This course is a series of seminars designed to provide maintenance of skills learned or to update knowledge of new technology in the criminal justice field expected of selected criminal justice personnel. Topics will be offered to meet the interests and needs of criminal justice personnel. Representative topics include specialty areas of criminal justice, analyzing and evaluating criminal justice operations and addressing management issues.

Modules are designed to meet criteria specified by the California Commission on Peace Officers Standards and Training. This is a special topics course. Subject matter will vary by semester. Please refer to the Schedule of Classes for a particular semester's topic. This course may be repeated for credit as topics change. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADJUS 400B 2.0 units**

**Special Topics Administration of Justice**

2.0 hours lecture, 2.0 hours laboratory

Prerequisite: ADJUS 250

Grading: pass/no pass

This course is a series of seminars designed to provide maintenance of skills learned or to update knowledge of new technology in the criminal justice field expected of selected criminal justice personnel. Topics will be offered to meet the interests and needs of criminal justice personnel. Representative topics include specialty areas of criminal justice, analyzing and evaluating criminal justice operations and addressing management issues. Modules are designed to meet criteria specified by the California Commission on Peace Officers Standards and Training. This is a special topics course. Subject matter will vary by semester. Please refer to the Schedule of Classes for a particular semester's topic. This course may be repeated for credit as topics change. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADJUS 400C 3.0 units**

**Special Topics Administration Topics**

3.0 hours lecture, 3.0 hours laboratory

Prerequisite: ADJUS 250

Grading: pass/no pass

This course is a series of seminars designed to provide maintenance of skills learned or to update knowledge of new technology in the criminal justice field expected of selected criminal justice personnel. Topics will be offered to meet the interests and needs of criminal justice personnel. Representative topics include specialty areas of criminal justice, analyzing and evaluating criminal justice operations and addressing management issues. Modules are designed to meet criteria specified by the California Commission on Peace Officers Standards and Training. This is a special topics course. Subject matter will vary by semester. Please refer to the Schedule of Classes for a particular semester's topic. This course may be repeated for credit as topics change. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADJUS 408 1.5 units**

**Plainclothes Operation**

1.4 hours lecture, 0.8 hour laboratory

Prerequisite: ADJUS 250

Grading: pass/no pass

This is an in-service course designed for detectives with less than two years experience. The course covers surveillance, equipment, weapon techniques, search warrant preparation/service and officer-involved shootings.

**ADJUS 410 1.5 units**

**Single Officer Car Course**

1.1 hours lecture, 1.1 hours laboratory

Prerequisite: ADJUS 250

Grading: pass/no pass

This course is designed to prepare peace officers to work in a one- person car. One-person searches, stops, use of force and other officer survival topics will be studied. Designed for professionals in the criminal justice system. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADJUS 415 2.0 units**

**Community Police Academy**

2.7 hours lecture

Grading: pass/no pass

This course is designed for members of the community who wish to learn more about the local municipal police department. Includes an overview of the duties, responsibilities and personnel of the various units within the department. Includes site visits and hands-on experience with many of the activities of the department.

**ADJUS 420 4.0 units**

**Police Field Operations: Motor Trng II**

2.2 hours lecture, 6.6 hours laboratory

Prerequisite: ADJUS 250

Grading: pass/no pass

This course teaches motor officer candidates the skill points of traffic law enforcement on a police motorcycle. Covers patrol tactics, traffic problems and techniques of motorcycle riding. Designed for professionals in police agencies.

**ADJUS 450 6.0 units**

**Basic Police Training: Lateral Entry**

10.4 hour lecture, 5.2 hours laboratory

Prerequisite: ADJUS 250

Grading: pass/no pass

This course is an update of basic police training and includes curriculum of local department interest such as policies, procedures and laws for the specific local department. The course is not applicable toward a degree if units have already been given for basic training.

**ADJUS 464 0.5 unit**

**Motor Officer Recertification**

0.3 hour lecture, 2.0 hours laboratory

Prerequisite: ADJUS 250

Grading: pass/no pass

This course is designed for recertification of police motor officers. It includes practicals and on-going traffic officer training. The course meets the California Commission on Peace Officers Standards and Training guidelines for recertification.

**AIR CONDITIONING AND REFRIGERATION (AC\_R)**

**AC\_R 211 10.0 units**

**Air Condition/Refrigeration Fundamentals**

5.0 hours lecture, 15.0 hours laboratory, 0.3 hour supplemental learning

Grading: letter grade or pass/no pass

This is the beginning course of a four-semester program for persons to become technicians in industrial and/or commercial air conditioning and refrigeration. This course covers shop safety practices, HVAC terminology, pressure/temperature relationships, heat transfer, analysis of components and complete systems, employee and employer relationship. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**AC\_R 212 10.0 units**

**Electrical Theory/Component Applications**

5.0 hours lecture, 15.0 hours laboratory, 0.3 hour supplemental learning

Grading: letter grade or pass/no pass

This course covers electrical systems found in heating, refrigeration and air conditioning installations and equipment. Also covered are formulas used in electrical theory, the interpretation of schematic wiring diagrams, electrical components and applications. This course also covers the theory and lab work associated with motors, thermostats, controls, and circuit analysis. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**AC\_R 213 10.0 units**

**Psychrometrics Duct & Load Calculations**

5.0 hours lecture, 15.0 hours laboratory, 0.3 hour supplemental learning

Prerequisite: AC\_R 211 or AC\_R 212

Grading: letter grade or pass/no pass

This course will discuss comfort as it relates to the human body, discusses psychometrics, gas heating, electric heating. The psychometric chart is covered in detail. Total heat is discussed along with building air conditioning specifications, including heating and cooling load calculations. Also covered is the forced air system, types of fans and fan drives. Duct materials and fastening devices are described. Sizing duct and measuring air movement for balancing are covered. Operating, safety, and electronic controls for air conditioning are covered. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

**AC\_R 214 10.0 units**

**Troubleshoot Total Comfort Systems**

5.0 hours lecture, 15.0 hours laboratory, 0.3 hour supplemental learning

Prerequisite: AC\_R 213

Grading: letter grade or pass/no pass

This is an advanced course that requires knowledge of troubleshooting of both electrical and mechanical equipment, electrical, electronic, and pneumatic controls. This course covers the complete electrical and mechanical design, service and troubleshooting of a commercial/industrial facility. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using

the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**AC\_R 220 3.0 units**

**Refrigeration Fundamentals**

2.5 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course is a basic study of vapor compression refrigeration cycle and system components. It includes shop safety practices, terminology, pressure/temperature relations, and heat transfer. System dehydration, recovery techniques, charging of refrigerants will also be covered. The material in this course will reflect the current Environmental Protection Agency (EPA) requirements of Section 608 of the Clean Air Act of 1990.

**AC\_R 223 3.0 units**

**Gas Heating Fundamentals**

2.5 hours lecture, 1.5 hours laboratory

Recommended Preparation: AC\_R 220

Grading: letter grade or pass/no pass

This course will cover the theory, operation and application of natural gas heating systems used in residential and commercial heating installations including the properties of fuel gases, gas combustion, furnace construction pilot proving devices and troubleshooting systems.

**AC\_R 226 2.0 units**

**Air Properties and Measurement**

2.0 hours lecture

Recommended Preparation: AC\_R 220

Grading: letter grade or pass/no pass

This course investigates the air side operating theory and application of comfort cooling systems. This course will include the psychometrics that will include the measurement and air distribution through duct design and component identification.

**AC\_R 229 3.0 units**

**Heat Pumps**

2.5 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course will cover the theory, operation and application of heat pump systems used in residential and commercial heating and cooling installations. The heat pump refrigeration cycle, reversing valves, defrost methods, supplemental heat, airflow and thermostats will also be covered.

**AC\_R 230 3.0 units**

**Electrical Fundamentals**

2.5 hours lecture, 1.5 hours laboratory

Recommended Preparation: AC\_R 220

Grading: letter grade or pass/no pass

This course includes the basic concepts of electrical principles as used in air conditioning and refrigeration. The development of schematic diagrams, the application of electrical components, the electrical sequence of operation, and troubleshooting of electrical systems will be covered.

**AC\_R 233 3.0 units**

**Commercial Electrical for HVAC**

2.5 hours lecture, 1.5 hours laboratory

Prerequisite: AC\_R 230

Grading: letter grade or pass/no pass

This course covers electrical systems found in commercial heating, refrigeration and air conditioning systems. It will also include the topics of time clocks, defrost systems, three phase transformers, three phase motors, timers, sequencers, starting methods and troubleshooting of commercial electrical systems.

**AC\_R 236A 2.5 units**

**Automobile Air Conditioning**

2.0 hours lecture, 1.5 hours laboratory

Prerequisite: AC\_R 220

Grading: letter grade or pass/no pass

This course covers tools, equipment, refrigeration fundamentals, electrical systems, air distribution, installation and repair of automobile air conditioning. System dehydration, recovery techniques, charging of refrigerants will also be covered. The material in this course will reflect the current Environmental Protection Agency (EPA) requirements of Section 609 of the Clean Air Act of 1990.

**AC\_R 240 4.0 units**

**Advanced Air Conditioning**

3.0 hours lecture, 3.0 hours laboratory

Prerequisite: AC\_R 220

Grading: letter grade or pass/no pass

This is an advanced course that requires knowledge of air conditioning mechanical and electrical systems. This course will cover the operation, maintenance and troubleshooting of commercial and industrial HVAC systems. This course also covers theory and practices associated with chilled water systems, absorption chilled water systems, cooling towers and pumps. Equipment efficiency rating, EER and SEER are also covered.

**AC\_R 260 3.0 units**

**Solar Hot Water Heating**

2.5 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course is a basic study on the essentials of installing code compliant solar thermal systems including Solar Hot Water and Solar Pool Heating. This course will cover the basic concepts, system configurations, guidelines and installation techniques involved with solar thermal systems. This course will consist of lecture, demonstration and lab activities. This course is designed for students who currently work in or plan to be employed in the solar hot water industry.

**AC\_R 271AD 2.0 units**

**Work Experience-Air Cond & Refri**

1.0 hour lecture, 4.1 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

**AC\_R 272 1.5 units**

**Fans & Fan Applications**

1.5 hours lecture

Grading: letter grade or pass/no pass

This course covers the theory and operation of fans and their application in the air conditioning and refrigeration field. The emphasis of this course is on correction of field problems, maintenance and repair of operating equipment, system balancing and noise control.

**AC\_R 272AD 3.0 units**

**Work Experience-Air Cond & Refri**

1.0 hour lecture, 8.3 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

**AC\_R 273AD 4.0 units**

**Work Experience-Air Cond & Refri**

1.0 hour lecture, 12.5 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

**AC\_R 400A 3.0 units**

**Uniform Mechanical Code I**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course will cover the purpose of the Uniform Mechanical Code. It will provide information about the complete requirements for the installation and maintenance of residential heating, ventilating, cooling and refrigeration systems.

**AC\_R 421A 3.0 units**

**Elect Controls for Refrig/Air Cond/Heat**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course covers the theoretical and practical principles involving the control of air conditioning and refrigeration equipment. Topics covered are the selection, application and maintenance of automatic controls for heating, ventilation and cooling systems.

**AC\_R 421B 3.0 units**

**Pneumatic Controls for HVAC**

3.0 hours lecture

Prerequisite: AC\_R 421A

Grading: letter grade or pass/no pass

This is an advanced course that requires knowledge of basic air conditioning and refrigeration controls. This course covers the selection, application and maintenance of automatic controls found the large commercial/industrial facilities.

**AC\_R 422 3.0 units**

**Air Conditioning System Design and Installation**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to estimating and selection of equipment used in residential, commercial and industrial air conditioning, heating and ventilating systems.

**AC\_R 450A 5.0 units**

**Transport Refrigeration**

4.0 hours lecture, 3.0 hours laboratory

Grading: letter grade

This course is an introduction to transport refrigeration. This course covers the application, function, power supply, basic operation, safety and troubleshooting of mechanical and electrical components of transport refrigeration equipment.

**AC\_R 450B 5.0 units**

**Advanced Transport Refrigeration**

4.0 hours lecture, 3.0 hours laboratory

Prerequisite: AC\_R 450A

Grading: letter grade

This is an advanced course that requires knowledge of basic transport refrigeration. This course covers the complete application, service, and troubleshooting of transport refrigeration systems.

***ALLIED HEALTH (AH)***

**AH 60 3.0 units**

**Medical Terminology**

3.0 hours lecture

Grading: letter grade

This course is designed to develop a comprehensive medical vocabulary. Emphasis will be placed on spelling, definitions, and pronunciation of terms related to the body systems and medical specialties.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**AH 61 2.0 units**

**Integration of Patient Care**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade

This course is designed to develop the fundamental aspects of interpersonal relations as related to the health care professions, as well as, basic skills in selected patient care procedures. This course is designed for students in the Diagnostic Medical Imaging Program.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**AH 220 1.5 units**

**Phlebotomy**

1.0 hour lecture, 1.5 hours laboratory

Grading: pass/no pass

This course provides instruction in the principles and practices of blood specimen collection as required by the health care regulations in California. Completion of the course meets the following requirements: 1) complete didactic and partial practice to qualify for the examination for Certified Phlebotomy Technician I as defined by the Department of Health Services; 2) complete didactic and partial practice for Medical Assistant certification as defined by the California Society of Medical Assistants; 3) complete didactic and

practice for Blood Withdrawal certificate as defined by the Board of Vocational Nursing and Psychiatric Technicians.

**AH 220AD 1.0 unit**

**Phlebotomy Practicum**

3.0 hours laboratory

Prerequisite: AH 220

Recommended Preparation: All health and safety requirements of clinical laboratories.

Grading: pass/no pass

This course provides the clinical laboratory experience in phlebotomy required to qualify for the examination of Certified Phlebotomy Technician I. This course and AH 220 are approved as a phlebotomy program by the State of California Department of Health Services Field Laboratory Services. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**AH 225 0.5 unit**

**Basic Arrhythmia Recognition**

0.5 hour lecture

Prerequisite: ADN 11B and ADN 11BL or VN 230 and VN 230L or EMT 251 and EMT 251L or AH61

Grading: pass/no pass

This course provides instruction in the interpretation of the single lead electrocardiogram. This course includes the relationship between cardiac physiology and the development of cardiac rhythm, as well as the correlation of electrocardiogram status to patient condition and expected treatment. This course is designed for health care workers or students interested in the care of patients with cardiac problems. Successful completion prepares the student for the ECG component of the American Heart Association Advanced Cardiac Life Support class. This course would be suitable for health care students and registered nurses, vocational nurses, radiologic technologists and emergency medical technicians. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**AH 276 1.0 unit**

**Health Care Law**

1.0 hour lecture

Grading: letter grade

This course is designed to develop a basic understanding of health care law, medical ethics and how they relate to health care providers.

**AH 285 1.0 unit**

**Health Care CPR and Vital Signs**

1.0 hour lecture, 0.5 hour laboratory

Grading: letter grade

This course is designed for students entering a healthcare field. Topics covered include Health Care provider CPR, including Automatic Defibrillator training, and assessment of vital signs and their significance in patient care.

**ANATOMY (ANAT)**

**ANAT 1 (CAN BIOL10) (Part of CAN BIO SEQ) 4.0 units**

**Human Anatomy**

3.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course is the study of the structure of the human body. This course provides the basic knowledge and lab skills to meet the needs of pre-nursing, physical education, physical therapy, and allied health majors. Dissection of a cat is required.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ANAT 41 5.0 units**

**Anatomy & Physiology**

4.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to the study of the structures and functions of the human body. Knowledge learned in lecture is reinforced by laboratory experiments and dissections. This course is designed for students in certain health related majors as well as students not majoring in the life sciences. Dissection of the fetal pig is required. Students are required to complete 5 hours of Supplemental Learning Assistance activities in designated Success Centers.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ANTHROPOLOGY (ANTHR)**

**ANTHR 1 (CAN ANTH 2) 3.0 units**

**Physical Anthropology**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course focuses on demonstrated understanding of the evolutionary physical characteristics that distinguish humans from other life forms. Major topics included in the course are human genetics, human physical variation, primatology, the origin and evolution of humans, and the synthetic theory of evolution.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ANTHR 1H (CAN ANTH 2) 3.0 units**

**Honors Physical Anthropology**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course focuses on demonstrated understanding of the evolutionary physical characteristics that distinguish humans from other life forms. Major topics included are human genetics, human physical variation, primatology, the origin and evolution of humans and the synthetic theory of evolution.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ANTHR 2 (CAN ANTH 4) 3.0 units**

**Cultural Anthropology**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to the study of the concepts, theories, and methods used in the comparative study of sociocultural systems. This course includes a comparison of subsistence patterns, social structure, political organization, language, family, kinship, religion, and the arts as practiced by different cultures. It

also explores social inequality, ethnicity, and gender and the application of anthropological perspectives to contemporary issues in the midst of culture change. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ANTHR 2H 3.0 units**

**Honors Cultural Anthropology**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course is an introduction to the study of the concepts, theories, and methods used in the comparative study of sociocultural systems. This course includes a comparison of subsistence patterns, social structure, political organization, language, family, kinship, religion, and the arts as practiced by different cultures. It also explores social inequality, ethnicity, and gender and the application of anthropological perspectives to contemporary issues in the midst of culture change.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ANTHR 3 3.0 units**

**Intro to Archaeology**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to the study of concepts, theories, and methods of anthropological archaeology as well as a review of significant data and models that contribute to knowledge of the human past. The course includes a discussion of the history and interdisciplinary nature of archaeological research; dating techniques and methods of survey, excavation, and analysis; cultural resource management; ethical considerations; and selected cultural sequences.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ANTHR 10 3.0 units**

**Magic, Witchcraft and Religion**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a survey of systems of magic, witchcraft and religion from past and present societies around the world. The course examines beliefs and practices in cultural settings with respect to the role of the supernatural in people's lives.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ANTHR 20 3.0 units**

**Archaeology Field Survey Methods**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course will introduce students to archaeological survey methods through lectures and supervised field experience. Instruction will focus on compass reading, topographic map orientation, research design, and creating maps using various survey instruments, including a pocket transit, automatic level, and electronic total station.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ARCHITECTURAL DESIGN  
(ARCHT)**

**ARCHT 60 8.0 units**

**Architectural Design**

6.0 hours lecture, 6.0 hours laboratory

Recommended Preparation: One year of high school drafting or DRAFT201

Grading: letter grade

This is a beginning computer aided drafting (CAD) course that uses the most recent version of AutoCAD and focuses on developing basic architectural skills. The student will develop basic two-dimensional (2D) AutoCAD production drawing skills learning the relationship between plan, section and elevation drawings and use these to produce a preliminary set of production drawings for a simple building. Students learn to solve basic design problems of site design, space relationships, roof shapes and building aesthetics. Alternative solutions to design problems will be explored using freehand sketching and computer generated techniques.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ARCHT 61 4.0 units**

**Architectural Design**

3.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: One year of high school drafting or DRAFT 201

Grading: letter grade

This is a beginning computer aided drafting (CAD) course that uses the most recent version of AutoCAD and focuses on developing basic architectural skills. The student will develop two dimensional (2D) AutoCAD production drawing skills. ARCHT 61 is one half of ARCHT 60, is transferable and leads to a certificate in architectural drafting.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ARCHT 62 4.0 units**

**Architectural Design**

3.0 hours lecture, 3.0 hours laboratory

Prerequisite: ARCHT 61 or DRAFT 201.

Grading: letter grade

This is a second semester computer aided drafting course that focuses on the development of basic architectural skills while using AutoCAD software. Students will learn to solve basic design problems of site analysis, space relationships, roof design, building aesthetics and material selection. Alternative solutions to design problems will be explored using the computer and freehand sketching techniques. The student will learn intermediate 2D AutoCAD with an introduction to 3D drawings. (Units and content are one half of ARCHT 60).

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ARCHT 64 8.0 units**

**Architectural Design**

6.0 hours lecture, 6.0 hours laboratory

Prerequisite: ARCHT 60 or ARCHT 62

Grading: letter grade

This is an intermediate level computer aided architecture course for transfer or occupational students. It is a drafting and design course where students will create 2D and 3D architectural designs, 2D construction drawings and build physical and digital models. Students will

utilize freehand sketches and the latest 2D and 3D software (i.e. AutoCAD, Sketch-up). Drawings include: site, floor and roof plans, sections, elevations, schedules, foundation plan and limited details. An opportunity to enter a design competition and build a portable structure may exist in the spring semester.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ARCHT 65 4.0 units**

**Architectural Design**

3.0 hours lecture, 3.0 hours laboratory

Prerequisite: ARCHT 62 or ARCHT 60

Grading: letter grade

This is the first semester of two intermediate level architecture courses for the transfer, occupational or returning student. It is a drafting and design course where students will create 2D and 3D architectural designs, 2D construction drawings and build physical models. The student will use sketches and the latest AutoCAD software products. Drawings include: site plan, floor plan(s), roof plan & elevations. (Units and content are one half of ARCHT 64).

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ARCHT 66 4.0 units**

**Architectural Design**

3.0 hours lecture, 3.0 hours laboratory

Prerequisite: ARCHT 65

Grading: letter grade

This is the second semester of two intermediate level architecture courses for the transfer, occupational or returning student. It is a drafting and design course focused on developing further the drawing skills learned in ARCHT 65, with an introduction to 3D drawing systems. Students will create 2D and 3D architectural designs, 2D construction drawings and build digital models utilizing sketches and the latest 2D & 3D software (i.e. AutoCAD, sketch-up). Drawings include: site, floor & roof plans, elevations, sections, schedules, foundation plan and limited details. (Units and content are one half of ARCHT 64).

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ARCHT 70AB 8.0 units**

**Architectural Design**

6.0 hours lecture, 6.0 hours laboratory

Prerequisite: ARCHT 64 or ARCHT 66

Grading: letter grade

This is an advanced level computer aided architecture course (2 semesters) for transfer or occupational students. It is a drafting and design course that utilizes the latest AutoCAD products, freehand sketching and various 3D software products. Students will create complex 2D and 3D architectural designs, complete 2D building plans and build physical and digital models. Drawings include: architectural, structural, electrical, mechanical and construction details. An opportunity to enter a design competition and build a portable structure may exist in the spring semester.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*



**ARCHT 71AD 4.0 units**

**Architectural Design**

3.0 hours lecture, 3.0 hours laboratory  
Prerequisite: ARCHT 64 or ARCHT 66  
Grading: letter grade

This is an advanced level computer aided architecture course (4 semesters) for transfer, occupational or continuing student. It is a drafting and design course that utilizes the latest AutoCAD products, freehand sketching and various 3D software products. Students will create complex 2D and 3D architectural designs, complete 2D building plans and build physical and digital models. Drawings include: architectural, structural, electrical, mechanical and construction details. (Units and content are equal to ARCHT 70AB).  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ARCHT 230AD 3.0 units**

**Building Information Modeling, Beginning**

2.0 hours lecture, 4.0 hours laboratory  
Recommended Preparation: ARCHT 60 or ARCHT 61 or familiarity with Architectural concepts.  
Grading: letter grade or pass/no pass

This is a beginning class in a series of three, aimed at individuals with a drafting background employed in architecture, interior design and other related fields, who wish to upgrade their skills in the area of parametric Building Information Modeling, BIM. Students will be instructed in the essentials of Revit Architecture or an equivalent BIM software. Instruction will emphasize the fundamentals of developing a BIM architectural modeling project and extracting formatted working drawings and a rendered presentation from the 3D model.

**ARCHT 231AD 3.0 units**

**Building Information Modeling, Int.**

2.0 hours lecture, 4.0 hours laboratory  
Prerequisite: ARCHT 230AD  
Grading: letter grade or pass/no pass

This is an intermediate class second in a series of three aimed at individuals with a drafting background employed in architecture, interior design and other related fields who wish to upgrade their skills in the area of parametric Building Information Modeling, BIM. Students will be instructed in the essentials of Revit Architecture or an equivalent BIM software. Instruction will emphasize collaboration tools, advanced design development tools, and advanced construction document tools through the development of a high rise commercial structure project.

**ARCHT 232AD 3.0 units**

**Building Information Modeling, Adv**

2.0 hours lecture, 4.0 hours laboratory  
Prerequisite: ARCHT 231AD  
Grading: letter grade

This is an advanced class the third in a series of three aimed at individuals with a drafting background employed in architecture, interior design and other related fields who wish to upgrade their skills in the area of parametric Building Information Modeling, BIM. Students will be instructed in the essentials of Revit Architecture or an equivalent BIM software. Instruction will enable students who have worked with BIM to expand their knowledge in the areas of Conceptual Design and BIM Management and the analysis of a BIM

project per applicable Leadership in Energy and Environmental Design requirements, LEED, codes, and national standards.

**ARCHT 273AD 4.0 units**

**WE: Architectural Drafting**

1.0 hour lecture, 12.5 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Recommended Preparation: DRAFT 51A or DRAFT 201 or DRAFT 202

Grading: letter grade or pass/no pass  
Vocational learning experiences through employment directly related to careers in Architectural Design Drafting. This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment and or volunteer time directly related to occupational goals or careers of interest to the student.

**ARCHT 298 3.0 units**

**EXP- Introduction to Sustainability**

3.0 hours lecture  
Grading: letter grade or pass/no pass  
The course is will provide an overview of what sustainability really is and how to integrate those practices into the buildings we design and build. We will also look at historical perspectives, best practices and the different rating agencies involved.

**ARCHT 360M1 1.5 units**

**Basic AutoCAD for Architecture**

1.0 hour lecture, 2.0 hours laboratory  
Recommended Preparation: One year high school drafting or DRAFT 201.  
Grading: letter grade

This is a beginning computer aided drafting (CAD) course that uses the most recent version of AutoCAD. The course focus is on developing basic architectural knowledge and skills. The student will develop fundamental AutoCAD skills and two dimensional (2D) sketch and production drawings. ARCHT 360M1 is one half of ARCHT 61 and leads to a certificate in architectural drafting.

**ARCHT 360M2 1.5 units**

**Architecture Design AutoCAD**

1.0 hour lecture, 2.0 hours laboratory  
Recommended Preparation: One year of high school drafting or ARCHT 360M1.  
Grading: letter grade

This course is an entry level computer aided drafting (CAD) course that uses the most recent version of AutoCAD. The focus is on developing basic architectural knowledge and drawing skills. The student will develop two dimensional (2D) AutoCAD production drawings and be introduced to 3 dimensional (3D) drawing conventions. ARCHT 360M2 is one half of ARCHT 61 and leads to a certificate or associates degree in architectural drafting.

**ART (ART)**

**ART 1 (CAN ART2) (Part of CAN ART SEQ) 3.0 units**

**Art and Civilization**

3.0 hours lecture

Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.

Grading: letter grade or pass/no pass

This course explores the artistic heritage of Western civilization from prehistory to the end of the Gothic period through the study of major monuments of painting, sculpture and architecture. It emphasizes the development of art forms as reflective of the social, political, religious, and aesthetic sensibilities of the historical periods covered. The course is appropriate for art majors and non-art majors.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 1H 3.0 units**

**Honors Art and Civilization**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.

Grading: letter grade or pass/no pass

This course explores the artistic heritage of Western civilization from prehistory to the end of the Gothic period through the study of major monuments of painting, sculpture and architecture. It emphasizes the development of art forms as reflective of the social, political, religious, and aesthetic sensibilities of the historical periods covered. The course is appropriate for art majors and non-art majors.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 2 (CAN ART4) (Part of CAN ART SEQ) 3.0 units**

**Art and Civilization**

3.0 hours lecture

Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.

Grading: letter grade or pass/no pass

This course is an historical approach to painting, sculpture, and architecture from Renaissance to modern times, emphasizing the relationship of art to concurrent philosophical, political, and social ideas. Discussions include key artists and their techniques. ART 1 is NOT a prerequisite.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 2H 3.0 units**

**Honors Art and Civilization**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.

Grading: letter grade or pass/no pass

This course is an historical approach to painting, sculpture, and architecture from Renaissance to modern times, emphasizing the relationship of art to concurrent philosophical, political, and social ideas. Discussions

include key artists and their techniques. ART 1 is NOT a prerequisite.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 3 3.0 units**

**Modern and Contemporary Art**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course surveys modern art from its mid-19th century beginnings to contemporary trends. Painting, sculpture, architecture and new art forms are explored in their broader cultural context.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 3H 3.0 units**

**Honors Modern and Contemporary Art**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course surveys modern art from its mid-19th century beginnings to contemporary trends. Painting, sculpture, architecture and new art forms are explored in their broader cultural context.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 4 3.0 units**

**Tribal Art**

3.0 hours lecture

Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.

Grading: letter grade or pass/no pass

This course is a survey of the painting, sculpture, architecture and crafts of Black Africa, Australia, Melanesia, Polynesia and Pre-Columbian North America. These traditions will be experienced through lectures, slides, movies, music and artifacts. The relationship of these areas to the mainstream of Western art also will be made.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 4H 3.0 units**

**Honors Tribal Art**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.

Grading: letter grade or pass/no pass

This course is a survey of the painting, sculpture, architecture and crafts of Black Africa, Australia, Melanesia, Polynesia and Pre-Columbian North America. These traditions will be experienced through lectures, slides, movies, music and artifacts. The relationship of these areas to the mainstream of Western art also will be made.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 5 3.0 units**

**History of Asian Art**

3.0 hours lecture

Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.

Grading: letter grade or pass/no pass

This course serves as a comprehensive introduction to the art traditions of India, Southeast Asia, China, Korea and Japan. The historical development of the arts is examined within their broader cultural context.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 5H 3.0 units**

**Honors History of Asian Art**

3.0 hours lecture  
Prerequisite: Qualification for the Honors Program  
Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.  
Grading: letter grade or pass/no pass  
This course serves as a comprehensive introduction to the art traditions of India, Southeast Asia, China, Korea and Japan. The historical development of the arts is examined within their broader cultural context.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 6 3.0 units**

**Art on the Town/Museum Study Visits**

3.0 hours lecture, 1.0 hour laboratory  
Grading: letter grade or pass/no pass  
This course is an overview of the major historical periods in Western art. After learning the basics of how to look at art, students will be introduced to the major styles of western and non-western art using slides, lectures and videos. Each lecture is followed the next week by a bus trip to view an exhibit related to the lecture. The course is designed for art majors and non-majors.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 7 3.0 units**

**Art on the Town/Studio & Gallery Visits**

3.0 hours lecture, 1.0 hour laboratory  
Grading: letter grade or pass/no pass  
This course introduces the materials and techniques involved in making art through a broad survey of art styles, sources and individual artists. On alternate weeks a slide assisted lecture will show the steps involved in the artistic process and introduce selected art styles and artists. On a field trip the following week, students observe the process or its product. The course is for art majors and non-majors.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 8 3.0 units**

**Art on the Town/Special Exhibits**

3.0 hours lecture, 1.0 hour laboratory  
Grading: letter grade or pass/no pass  
This course is part of a program that introduces students to regional and cultural exhibits of world art not available on a continuing basis. It provides a broad-based overview on art whereby students can apply art principles, identify stylistic characteristics, and recognize historical context. On alternate weeks a slide-lecture will introduce the content of the exhibit and methods of analysis. A field trip occurs the following week.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 9 3.0 units**

**Introduction to Art**

2.0 hours lecture, 3.0 hours laboratory  
Grading: letter grade or pass/no pass  
This course provides a common sense approach to exploring a student's innate creative ability, the influence of art on everyday life, and how art is made. This course is designed for the non-art major and is recommended for teaching majors.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 10 3.0 units**

**Art Appreciation**

3.0 hours lecture  
Grading: letter grade or pass/no pass  
Students will be introduced to the major themes and concepts that have been the source for artistic expression in the visual arts. Ideas are viewed from a thematic exploration of art to express aesthetically human wants, needs and hopes. Through lectures and visual aids, students become aware of artistic ideas, media and techniques. The course is designed for the non-art major.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 11 3.0 units**

**Pre-Columbian Art**

3.0 hours lecture  
Grading: letter grade or pass/no pass  
This course explores pre-Columbian art from Mexico, Central and South America through the study of major monuments of sculpture, architecture, ceramics, textiles and painting. The slide-lecture format will be complemented by music, films and artifacts. The course is appropriate for art majors and non-art majors.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 11H 3.0 units**

**Honors Pre-Columbian Art**

3.0 hours lecture  
Prerequisite: Qualification for the Honors Program  
Grading: letter grade or pass/no pass  
This course explores pre-Columbian art from Mexico, Central and South America through the study of major monuments of sculpture, architecture, ceramics, textiles and painting. The slide-lecture format will be complemented by music, films and artifacts. The course is appropriate for art majors and non-art majors.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 12AD 3.0 units**

**Gallery and Exhibition Design**

2.0 hours lecture, 4.0 hours laboratory  
Recommended Preparation: ART 30 and ART 31  
Grading: letter grade  
Intro to the basic concepts applied to art exhibitions and installation. A foundation of history, theory and criticism will acquaint students to the function of galleries and exhibits in society. Apply learning with hands-on experience, assisting in creating shows, caring for and cataloging art works, working with professional artists and installing exhibitions in the Long Beach City College Fine Arts Gallery.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 15 (CAN ART 8) 3.0 units**

**Beginning Drawing**

2.0 hours lecture, 4.0 hours laboratory  
Grading: letter grade or pass/no pass

This is an introductory studio experience in freehand drawing emphasizing accurate observation, shading, perspective, proportion and composition. Students develop the use of these skills as a means of personal expression.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 16AD 3.0 units**

**Intermediate Drawing**

2.0 hours lecture, 4.0 hours laboratory  
Prerequisite: ART 15

Grading: letter grade or pass/no pass

This is an advanced studio drawing experience with emphasis on the employment of personal expression as applied to 20th Century concepts and trends.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 17AD 3.0 units**

**Illustration I**

2.0 hours lecture, 4.0 hours laboratory  
Recommended Preparation: ART 15

Grading: letter grade or pass/no pass

This course serves as an introduction to illustration. It stresses the creative interpretation of subjects, situations, and themes within the context of commercial art such as advertising, editorial, and institutional. Special emphasis is placed on the creation of illustrations from rough concept through finished artwork. Production, media processes, color analysis and application, portfolio development and presentation are presented. Studio experience in the use of linear perspective to develop illustrative realistic representation is emphasized.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 18AD 3.0 units**

**Illustration II**

2.0 hours lecture, 4.0 hours laboratory  
Recommended Preparation: ART 15 and ART 17AD

Grading: letter grade or pass/no pass

This course is a continuation of the concepts and techniques presented in Illustration I. Increasingly more advanced illustration projects, techniques, concepts and methods will be presented. Emphasis is placed on the development of original concepts, refinements of techniques, production methods and development and presentation of portfolio-quality artwork. In addition, rendering, or sharp focus drawing techniques will be presented and incorporated in several projects.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 19AD (CAN ART 24) 3.0 units**

**Life Drawing**

2.0 hours lecture, 4.0 hours laboratory  
Prerequisite: ART 15

Grading: letter grade or pass/no pass

This is a freehand figure drawing course focusing on observational skills, proportion, and anatomy as a means of personal expression. This course is recommended for

those interested in illustration, drawing and painting and art majors interested in transferring to a university.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 23 (CAN ART 10) 3.0 units**

**Beginning Painting**

2.0 hours lecture, 4.0 hours laboratory  
Recommended Preparation: ART 15

Grading: letter grade or pass/no pass

This is an introductory studio course emphasizing fundamental techniques and concepts appropriate to the use of color and painting as a significant means of human expression. This course is required of all art majors.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 24 3.0 units**

**Watercolor, Beginning**

2.0 hours lecture, 4.0 hours laboratory  
Recommended Preparation: ART 15

Grading: letter grade or pass/no pass

This course offers an opportunity to explore and develop creative attitudes, values and personal expression in the visual arts. It investigates, emphasizing unique techniques, methods and tools, using the elements and principles of two-dimensional pictorial composition in an imaginative, personal manner. CSU course limitation, see counselor.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 25AD 3.0 units**

**Watercolor, Advanced**

2.0 hours lecture, 4.0 hours laboratory  
Prerequisite: ART 24

Grading: letter grade or pass/no pass

This is an advanced course in watercolor painting with an emphasis on the employment of personal expression as applied to 20th century concepts and trends. For UC course limitations, see counselor.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 26AD 3.0 units**

**Figure Painting**

2.0 hours lecture, 4.0 hours laboratory  
Prerequisite: One Semester of ART 19AD

Recommended Preparation: ART 23

Grading: letter grade or pass/no pass

This course introduces and investigates painting the human figure from observation with the emphasis on anatomy, historical and contemporary issues and personal interpretation. Light logic and color theory systems as they pertain to the figure will be introduced and developed to create resolved compositions and accurate representations of the figure.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 27AD 3.0 units**

**Intermediate Painting**

2.0 hours lecture, 4.0 hours laboratory  
Prerequisite: ART 23

Grading: letter grade or pass/no pass

This course is a studio experience designed for students with basic painting skills. The course will introduce them to historical and contemporary visual art concepts and techniques. The students will develop paintings that

reflect personal expression, experimental media and current trends in painting.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 30 (CAN ART 16) 3.0 units**

**Fundamentals of Art/Volume, Plane & Form**

2.0 hours lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a foundational studio experience designed to provide a basic understanding of the elements and principles of three-dimensional design.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 31 (CAN ART 14) 3.0 units**

**Fundamentals of Art/Composition & Color**

2.0 hours lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to the elements and principles of two-dimensional design as they apply to the visual arts. The course is a beginning level studio experience designed to create understanding of line, shape, texture, pattern, value, color and composition. Principles of design, rhythm, harmony, balance, unity, variety, and emphasis will be explored.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 32 3.0 units**

**Intermediate Design**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 30 or ART 31

Grading: letter grade or pass/no pass

This course is a creative studio experience for the student preparing to enter a field of applied design, graphic design, product design, interior design and fine art. Emphasis is on problem solving and refinement of images and objects in the context of art and design.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 33AD 1.0 unit**

**Three Dimensional Practicum**

3.0 hours laboratory

Corequisite: ART 34AD or 35AD or 36AD or 37AD or 38AD or 50 or 51AD or 52AD or 60 or 61AD or 62AD or 63AD

Recommended Preparation: ART 30 and ART 31

Grading: letter grade or pass/no pass

This course provides on campus lab practice and the application of course content for three-dimensional media: sculpture, ceramics and jewelry/metalwork courses. Must be taken concurrently with one of these 3-D course sections.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 34AD 3.0 units**

**Applied Design/Crafts**

2.0 hours lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to media in the design and creation of decorative and/or functional objects. Emphasis is on skill acquisition and refinement in a context of art and functional design.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 35AD (CAN ART 26) 3.0 units**

**Jewelry/Metalsmithing 1**

2.0 hours lecture, 4.0 hours laboratory

Recommended Preparation: ART 30 and ART 31

Grading: letter grade or pass/no pass

This course introduces the scope of contemporary metalsmithing through the design and construction of original projects. Knowledge of various specialized soldering, forming and surface techniques is demonstrated in the construction of projects. Emphasis is on skill acquisition and refinement in a context of art and design.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 36AD 3.0 units**

**Jewelry/Metalsmithing 2**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: One semester of ART 35AD

Grading: letter grade or pass/no pass

This course introduces the scope and exploration of wax-working, casting and mold making in contemporary jewelry and metalwork through the design and construction of original projects. Knowledge of various direct and indirect processes, wax working, and mold making techniques is demonstrated in the construction of projects. Emphasis is on skill acquisition and refinement in a context of art and design.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 37AD 3.0 units**

**Jewelry/Metalsmithing 3**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: One semester of ART 35AD

Grading: letter grade or pass/no pass

This course introduces the scope and exploration of the basic hollowware techniques, die-forming, raising, chasing and repousse in contemporary jewelry and metalwork through the design and construction of original projects. Knowledge of various forming processes required for transposing two dimensional materials into three dimensional forms is demonstrated in the construction of projects. Emphasis is on skill acquisition and refinement in a context of art and design.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 38AD 3.0 units**

**Jewelry/Metalsmithing 4**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: One semester of ART 35AD

Grading: letter grade or pass/no pass

This course is a continuation of studies to techniques and concepts introduced in 35AD, 36AD, or 37AD with an emphasis on refinement of skills. Included segments may cover facets such as enameling, professional practices or other advanced areas.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 39AD 1.0 unit**

**Intermediate Jewelry/Metalwork Practicum**

3.0 hours laboratory

Prerequisite: ART 35AD

Corequisite: ART 36AD, ART 37AD or ART 38AD

Grading: letter grade or pass/no pass

This course provides on campus lab practice and the application of course content for jewelry/metalwork courses. Must be taken concurrently with ART 36AD, ART 37AD or ART 38AD.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 41 3.0 units**

**Introduction to Computergraphics**

2.0 hours lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course will help demystify computer graphics for beginners and give a broad overview of the concepts involved in two dimensional computer graphic applications. The course covers terminology, basic operating systems and art related peripheral devices.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 42 3.0 units**

**Intro/3D & Multimedia Computergraphics**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 41

Recommended Preparation: ART 30

Grading: letter grade or pass/no pass

This course serves as an introduction to computer graphic production in the areas of three dimensional and time based electronic media. It emphasizes the unique characteristics of three and four dimensional realities as presented in electronic media. Students will explore the distinct visual characteristics of virtual dimensions in both time and space.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 43AD 3.0 units**

**Beginning Website Design**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 41

Recommended Preparation: ART 31

Grading: letter grade or pass/no pass

In this course students learn to apply computer graphics to a variety of communication needs. The unique issues associated with multidimensional/non-linear communication are addressed. Students apply these principles to the creation of actual websites through hands-on use of a variety of software applications. This course is intended for art and non-art majors. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 44AD 3.0 units**

**Graphic Design Tools & Techniques**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 41

Recommended Preparation: ART 31

Grading: letter grade or pass/no pass

This course is an exploration of the basic use of computers for graphic design. Students learn the basics of graphic design in preparation of visual communications for both digital and print media. By completing assignments on the computer, students will create documents that effectively combine text and

graphics. Projects will be created using a variety of input and output devices as well as software.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 45AD 3.0 units**

**Computer Art for Drawing and Painting**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 41

Recommended Preparation: ART 31

Grading: letter grade or pass/no pass

Digital image creation is explored using vector and raster based software applications such as Adobe Illustrator and Photoshop. Students learn the appropriate use of image creation software and hardware. Images are developed for both commercial and fine art applications.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 46AD 3.0 units**

**Computer Art & Design in 3D Modeling**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 41

Recommended Preparation: ART 31 and ART 42

Grading: letter grade or pass/no pass

Students digitally construct three-dimensional objects and learn to deal with abstract objects in virtual three-dimensional space. Specific relationships will be made between electronic modeling and the visual arts, in particular, sculpture, animation, illustration, and other areas of computer graphics.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 47AD 3.0 units**

**Computer Animation and Multimedia**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 41

Recommended Preparation: ART 31 and ART 42

Grading: letter grade or pass/no pass

This course introduces the skills and software used to create digital multimedia and animation. Students will learn the theories of computer-based animation and interactive multimedia design. Students will also learn how to digitally create stand alone, as well as interactive multimedia/animation, projects.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 48AD 3.0 units**

**Computer Art & Design for TV and Video**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 41

Recommended Preparation: ART 31

Grading: letter grade or pass/no pass

Students learn to develop digital content for video requirements on the computer. Students use non-linear editing and compositing of clips to create professional quality productions.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 49AD 3.0 units**

**Special Studies-Computer Art and Design**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 41

Recommended Preparation: Four courses from ART 43AD, ART 44AD, ART 45AD, ART 46AD, ART 47AD and ART 48AD

Grading: letter grade or pass/no pass

This course is for art majors in computer art and design who have completed a series of computer art classes and are prepared to do advanced work in a specific area. It will allow students to develop personal skills for their chosen specialty in the computer art field. Students work independently on projects formulated with faculty assistance.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 50 (CAN ART 6) 3.0 units**

**Ceramics I**

2.0 hours lecture, 4.0 hours laboratory

Recommended Preparation: ART 30 and ART 31

Grading: letter grade or pass/no pass

Students will explore basic hand and wheel methods of forming, decorating and glazing three-dimensional ceramic forms. As students develop a personal awareness and appreciation of the creative process, they will use clay as a medium of aesthetic expression.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 51AD 3.0 units**

**Ceramics II**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 50

Recommended Preparation: ART 30 and ART 31

Grading: letter grade or pass/no pass

This course serves as a creative experience in the visual arts using clay as a medium of expression. Students will apply knowledge gained in the first course (Ceramics I) to solve more complex problems of forming, decoration and glazing three-dimensional ceramic forms.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 52AD 3.0 units**

**Ceramics III**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 51AD

Recommended Preparation: ART 30 and ART 31

Grading: letter grade or pass/no pass

In this course students develop a more intensive knowledge of ceramics along with the ability to produce well designed ceramic objects. Emphasis is placed on the creation of the clay objects, initial concept through finished artwork, including refinements of glazing techniques, aesthetic judgment and problem solving capabilities. Kiln firing, glaze and clay technology will be presented.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 53AD 3.0 units**

**Ceramics IV**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 52AD

Recommended Preparation: ART 30 and ART 31

Grading: letter grade or pass/no pass

In this course students develop a more intensive knowledge of ceramics along with the ability to produce well designed ceramic objects. This course emphasizes non-utilitarian form, related clay, glaze and firing technology, aesthetic judgment, problem-solving capabilities, skills and knowledge of materials.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 55AD 3.0 units**

**Introduction to Graphic Design**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 31

Grading: letter grade or pass/no pass

This course serves as an overview of graphic design and its various components, including typography, illustration, photography and layout. The history of graphic design, as well as the relationship to advertising agencies, corporations, publishers, typographers and printers is covered. Students will develop skills in design software and hardware use while enhancing their ability to coordinate type, image and symbol.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 56AB 1.5 units**

**Introduction to Typography**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course is for all students considering work in the field of graphic and communication design. The study of lettering and typographic form is explored from historic, theoretic and aesthetic views. Students learn the appropriate use of specific families of type. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 60 (CAN ART 12) 3.0 units**

**Beginning Sculpture**

2.0 hours lecture, 4.0 hours laboratory

Recommended Preparation: ART 30

Grading: letter grade or pass/no pass

This is an introductory studio course structured to give students an understanding of the formal elements of sculpture while investigating various materials and processes. Both additive and subtractive methods are explored using clay, plaster and wood, as well as non-traditional materials. This course is designed to allow students to investigate form, space, material and content through selected projects, readings, field trips, slides and discussions.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 61AD 3.0 units**

**Intermediate Sculpture**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 60

Grading: letter grade or pass/no pass

This studio course is an introduction to a subjective approach to sculpture emphasizing the development of ideas in relation to personal/individual intent. An investigation of both historical and contemporary sculpture that may include carving, casting, modeling, welding, fiberglass lamination, installation and non-studio pieces. There is an emphasis on the advancement of technical and material skills as well as the understanding of an overall art making process. Students continue their investigation of form, space, material and content through selected projects, readings, field trips, lectures, and discussions.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 62AD 3.0 units**

**Metal Fabrication Sculpture**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 60

Recommended Preparation: ART 30

Grading: letter grade or pass/no pass

This studio course is designed to increase understanding of contemporary sculpture through a focus on the fundamentals of metal fabrication. This is an investigation of both historical and contemporary sculpture that may include oxy-acetylene, arc and heli-arc welding, basic forging, bending and cold-joint metal fabrication techniques. There is an emphasis on the advancement of technical and material skills as well as the understanding of an overall art making process. Students continue their investigation of form, space, material, and content through selected projects, readings, field trips, lectures, and discussions.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 63AD 3.0 units**

**Metal Casting Sculpture**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ART 60

Recommended Preparation: ART 30

Grading: letter grade or pass/no pass

This studio course is designed to investigate contemporary sculpture ideas through traditional, industrial and new metal casting processes. Students explore Styrofoam/Greensand and standard investment for casting aluminum and bronze. Instruction on surfacing includes patina, stains, paints and varnish application. Ceramic shell casting may also be explored.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 70AD 3.0 units**

**Printmaking, Silkscreen**

2.0 hours lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course introduces the scope of the graphic art of printmaking as a means of personal expression. Students will learn the basic techniques of water-based serigraphy; blackout stencil, paper stencil and photo-emulsion stencils. Emphasis is on skill acquisition and refinement in the context of art and design.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 71AD 3.0 units**

**Printmaking, Intaglio**

2.0 hours lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

Intro to the graphic art of printmaking as a means of personal expression. Includes etching, engraving, multicolor plates, viscosity, aquatint, photo etching and related methods and mixed media techniques.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 72AD 3.0 units**

**Advanced Printmaking**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: One Semester of ART 70AD or ART 71AD.

Grading: letter grade or pass/no pass

Students will work in special studies of advanced techniques and exploration of collagraphy, intaglio, serigraphy and/or woodcut. Students will develop and

pursue individualized projects and gain competence in edition printing, darkroom techniques and mixed media.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 80 3.0 units**

**Elements of Photography**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a survey of photography as a creative, personal form of expression. The emphasis of the class is on acquisition of skills related to camera operation, selection of equipment, choosing appropriate subject matter and how to take and evaluate the final product, the photograph.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 81AD 3.0 units**

**Introduction to Fine Art Photography**

2.0 hours lecture, 4.0 hours laboratory

Recommended Preparation: ART 31

Grading: letter grade or pass/no pass

This course is an introduction to photography as a creative personal form of expression. The emphasis is on acquisition of b&w darkroom skills, operation of a camera, concepts and practices of fine art photography. It is suitable for students with beginning to advanced photographic skill levels.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 90AD 1.0 unit**

**Special Projects in Art**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course is designed to assist the student in the exploration and development of an individual approach to projects within specific fields of art.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ART 91AD 2.0 units**

**Studio Projects in Art**

2.0 hours lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is designed to assist the student in the exploration and development of an individual approach to studio projects within the field of art.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ART 292 3.0 units**

**Professional Skills for Artists**

2.0 hours lecture, 4.0 hours laboratory

Recommended Preparation: Completion of at least three studio art courses

Grading: letter grade or pass/no pass

This course is designed to develop the skills necessary for portfolio presentation as a student, professional artist or art director. Lectures and demonstrations will include photographing artwork, documentation of artwork, matting, framing, resume and artist statement writing, portfolio development and portfolio presentation. Class lectures will also include information on schools, exhibitions, criticism, ethical and contractual issues.



**ART 600** **0.0 unit**

**Two-Dimensional Art Exploration**

2.0 hours lecture, 4.0 hours laboratory  
 Grading: LBCC Non-Graded Course  
 Students develop, improve and explore visual art skills and philosophy related to two-dimensional art work such as drawing, painting, perspective, rendering, watercolor, life drawing and design. This course is designed for senior citizens.

**ART 601** **0.0 unit**

**Three-Dimensional Art Exploration**

2.0 hours lecture, 4.0 hours laboratory  
 Grading: LBCC Non-Graded Course  
 Students develop, improve and explore skills and philosophy related to three-dimensional art work such as sculpture, 3-D design, ceramics, jewelry & metalsmithing, and applied design. This course is designed for older citizens.

**ART 602** **0.0 unit**

**Specialty/Technical Art Exploration**

2.0 hours lecture, 4.0 hours laboratory  
 Grading: LBCC Non-Graded Course  
 Students develop, improve and explore skills and philosophy related to process-oriented art work such as printmaking, photo and computer art and design. This course is designed for senior citizens.

**ART 603** **0.0 unit**

**Exploration in Art History**

3.0 hours lecture  
 Grading: LBCC Non-Graded Course  
 Students explore the historical, cultural, and/or thematic aspects of the visual arts through lecture, slides, films and/or museum visits. This course is designed for senior citizens.

**ASTRONOMY (ASTR)**

**ASTR 1** **3.0 units**

**Elementary Astronomy**

3.0 hours lecture  
 Grading: letter grade or pass/no pass  
 This course is an introduction to astronomy. Topics to be covered include the physical nature of the solar system, stars and stellar systems, and the universe as a whole, including not only their current state, but also theories of their origin and evolution.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ASTR 1L** **2.0 units**

**Astronomy Laboratory**

1.0 hour lecture, 3.0 hours laboratory  
 Grading: letter grade or pass/no pass  
 This course provides an introduction to observational astronomy. Various projects provide training in astronomical observation, and in the analysis of numeric and graphical data. Passing both ASTR 1 and ASTR 1L satisfies a physical science lab requirement.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**AUTO BODY REPAIR (ABODY)**

**ABODY 211** **9.0 units**

**Intro to Basic Auto Body Repair**

5.0 hours lecture, 13.3 hours laboratory, 0.3 hour supplemental learning  
 Grading: letter grade or pass/no pass  
 This course is an introduction to basic auto body repair principles involving theory, safety practices, gas welding, metal shrinking, MIG welding, metal straightening, metal finishing, hand and power tools, plastic body filler, surface preparation, primer and spray gun techniques. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ABODY 212** **9.0 units**

**Minor Collision Repair**

5.0 hours lecture, 13.3 hours laboratory, 0.3 hour supplemental learning  
 Recommended Preparation: ABODY 211  
 Grading: letter grade or pass/no pass  
 This is a course designed as an overview of the collision repair industry, which will build the framework of knowledge needed to fully understand the repair process, within the semester you will learn the basic process of safety, certification, welding, heating, cutting, hand tools, power tools/equipment, Basic measurement, service information, fasteners, collision repair hardware/materials, vehicle construction metal straightening, surface preparation, painting and refinishing fundamentals — as well as the tools necessary to complete these task. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ABODY 213** **9.0 units**

**Major Collision Repair**

5.0 hours lecture, 13.3 hours laboratory, 0.3 hour supplemental learning  
 Recommended Preparation: ABODY 212  
 Grading: letter grade or pass/no pass  
 This course will cover the analysis of major automotive collision damage and the knowledge and skills to repair the structural body components to pre-accident condition. Topics will include safety practices, frame straightening techniques, replacement of major structural panels, MIG welding (GMAW), removal and installation of major body components, air Conditioning recycling and recharging, metal finishing, basic electrical systems, basic mechanical techniques, and special projects. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ABODY 240**

**4.5 units**

**Automotive Refinishing 1**

3.0 hours lecture, 6.0 hours laboratory  
Recommended Preparation: ABODY 213  
Grading: letter grade or pass/no pass

This beginning automotive painting course will cover the basic principles in Automotive Refinishing. The course covers safety practices, preparation and masking, refinishing products, refinishing nomenclature, spray painting equipment, spray painting techniques, and special projects.

**ABODY 419AD**

**4.0 units**

**Auto Body Repair**

2.0 hours lecture, 6.0 hours laboratory  
Grading: letter grade or pass/no pass

This course will cover the analysis of major automotive collision damage. Topics will include safety practices, frame straightening techniques, replacement of major structural panels, MIG welding (GMAW), removal and installation of major body components, metal finishing, basic electrical systems and, basic mechanical techniques. This course will also cover the basic principles in Automotive Refinishing, safety practices, preparation and masking, refinishing products, refinishing nomenclature, spray painting equipment, spray painting techniques, and special projects.

***AUTOMOTIVE TECHNOLOGY  
(AMECH)***

**AMECH 50A**

**3.0 units**

**Machine Tool Operation and Practices**

2.0 hours lecture, 3.0 hours laboratory  
Grading: letter grade or pass/no pass

This course is designed to explore the machining techniques utilized in the machine shop. This entry level machining course covers safety practices required in the modern manufacturing industry. This course includes semi-precision layout, semi-precision /precision measurement, tools and equipment. Students learn to operate the milling machine and engine lathe. This course is primarily design as a supplemental course so that students in another field appreciate and apply techniques utilized in the machine shop. This course is formerly known as MACHT 50A.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**AMECH 231**

**9.0 units**

**Engine Repair & Automatic Transmissions**

5.0 hours lecture, 13.3 hours laboratory, 0.3 hour supplemental learning  
Recommended Preparation: High school auto or AMECH 421

Grading: letter grade or pass/no pass

This course covers safety, tools and fasteners, nomenclature, theory, demonstrations and "hands on" instruction on differently fueled automobile engines. This course also covers automatic transmissions and engine repair. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**AMECH 232**

**9.0 units**

**Brakes and Steering Systems**

5.0 hours lecture, 13.3 hours laboratory, 0.3 hour supplemental learning

Recommended Preparation: High school auto or AMECH 421

Grading: letter grade or pass/no pass

This course will cover topic areas such as safety, tools and equipment, related math and theory, brake systems, steering systems, and the sub systems that correlate with the major topics such as wheels and tires. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**AMECH 233**

**9.0 units**

**Auto Electrical and Fuel Systems**

5.0 hours lecture, 13.3 hours laboratory, 0.3 hour supplemental learning

Recommended Preparation: High school auto or AMECH 421

Grading: letter grade or pass/no pass

This course covers testing and repair of automotive charging and starting systems, ignition systems (conventional and transistorized), fuel systems on (carburation and fuel injection) and oscilloscopes operation (conventional and computer assisted). This course is designed to assist the student with preparation for the ASE (Automotive Service Excellence) test. This course will also explain electrical and fuel systems on Diesel, Hybrid, LNG (Liquid Natural Gas), CNG (Compressed Natural Gas) and Hydrogen Fuel cells. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**AMECH 236**

**9.0 units**

**Automotive Emission & Computer Control**

5.0 hours lecture, 13.3 hours laboratory  
Recommended Preparation: AMECH 233  
Grading: letter grade or pass/no pass

This course is designed to cover the California State approved "Clean Air Course" and the operation and testing of the emission and computer control systems. This course will prepare a student for the Automotive Service Excellence (ASE) and the State Emission Control License test.

**AMECH 280AD**

**2.0 units**

**Automotive Mechanics Adjunct**

6.0 hours laboratory

Corequisite: Current enrollment in one or more of the following courses: AMECH 231, AMECH 232, AMECH 233 or AMECH 236.

Grading: letter grade or pass/no pass

This course provides additional practical experience for automotive majors wanting to supplement the instruction in the primary automotive class in which the student is enrolled. Topics can include engines, transmissions, brakes, steering, electrical, fuel systems, emissions, and/or computer controls.

**AMECH 421 3.0 units**

**Auto Mechanics 1**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course is an introductory course covering the principles of the operation of the modern automobile. This course will provide practical experience in maintenance and repair at the owner operator level. Consumer awareness is emphasized.

**AMECH 424 3.0 units**

**Auto Air Conditioning**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course covers automotive tools, automotive equipment, automotive refrigeration fundamentals, automotive electrical systems, automotive air distribution, automatic air conditioning, installation, maintenance, and repair of modern automotive air conditioning systems. Emphasis is based on industrial repair and maintenance.

**AMECH 430 6.0 units**

**Auto Wheel Alignment**

5.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: High school auto mechanics or AMECH 421

Grading: letter grade or pass/no pass

This course covers automotive wheel alignment theory, design, operation, power flow, suspension, and steering in automotive vehicles and small trucks. This course will also include testing, diagnostics, and modern methods of servicing vehicles. ASE (Automotive Service Excellence) testing preparation is emphasized.

**AMECH 432 6.0 units**

**Automotive Brake Systems**

5.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: AMECH 421

Grading: letter grade or pass/no pass

Covers the theory, design and operation of the standard, disc and anti-lock brake systems common to most autos and small trucks. Includes testing, diagnosing and modern methods of servicing the brake system.

**AMECH 434 6.0 units**

**Engine Repair**

5.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course instruction will cover the fundamentals of engine operation, repair and rebuilding of engines, and commonly used tools and equipment. Emphasis in the course will be upon engine design, theory of construction, testing, and troubleshooting all based upon industrial standards.

**AMECH 436 6.0 units**

**Automatic and Standard Transmissions**

5.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: High school auto or AMECH 421

Grading: letter grade or pass/no pass

This course covers the construction, operation, maintenance, adjustment and overhaul of manual and automatic transmissions.

**AMECH 438 6.0 units**

**Auto Emission Controls**

5.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: High school auto mechanics or AMECH 421

Grading: letter grade or pass/no pass

This course covers the California State approved "Clean Air Course," as well as preparation for the California Inspection and Maintenance Emission Control License. Also, this course covers operation and testing of computer-controlled oxygen feedback systems and use of the California State approved BAR97 Emissions Inspection System (EIS). This course is intended for students wishing to complete an A.S. Degree and/or a Certificate of Completion in Automotive Technology. This course is also the first of two courses necessary to prepare for a license exam administered by the State of California Smog Check Program for the Enhanced Emissions areas.

**AMECH 440 6.0 units**

**Automotive Computer Systems**

5.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: AMECH 421

Grading: letter grade or pass/no pass

This course covers the operation and testing of computer controlled oxygen feedback systems, the use of the California State Approved Emission Inspection System (EIS) and the use of hand-held auto systems analyzers. Students will prepare to take the ASE (Automotive Service Excellence) and the California state emission control license tests.

**AMECH 442 6.0 units**

**Automotive Fuel Systems**

5.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: AMECH 421

Grading: letter grade or pass/no pass

This course covers the testing and repair of auto fuel systems (carburation and fuel injection) and operation of auto oscilloscopes for testing (Conventional and computer assisted purposes). Prepare to take the ASE (Automotive Service Excellence) test. This course will also explain electrical and fuel systems on Diesel, Hybrid, LNG (Liquid Natural Gas), CNG (Compressed Natural Gas) and Hydrogen Fuel cells.

**AMECH 444 6.0 units**

**Automotive Electrical Systems**

5.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: AMECH 421

Grading: letter grade or pass/no pass

This course covers testing and repair of automotive electrical charging and starting systems, ignition systems (conventional and transistorized). This course is designed to assist the student with preparation for the ASE (Automotive Service Excellence) test.

**AMECH 480 3.0 units**

**Hybrid, Fuel Cell and Electric Vehicles**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a hands-on approach to the world of Hybrid, Fuel Cell and Electric powered vehicles. Discover how this new technology works as it replaces existing fossil fueled engines. Examine existing technologies, conversion processes, testing, assembly, operation, and maintenance of Hybrid-Electric, Fuel Cell and Battery Powered electric vehicles. Appropriate safety related instruction is included.

**AMECH 481 3.0 units**

**Advanced Hybrid & Fuel Cell EV's**

2.0 hours lecture, 3.0 hours laboratory

Grading: pass/no pass

This course furthers the student's skills in electric vehicle (EV) conversions and provides an introduction to advanced EV designs and propulsion systems. The students will work with hybrids, Fuel Cells & A/C drive systems in advanced design electric vehicles. The course includes: EV design and construction; the testing, assembly, operation and maintenance of EVs; the influence of aerodynamic design; advanced technology batteries and intelligent charging systems; hydrogen fuel cell technology and alternative EV drive systems. Appropriate safety related instruction will be included in each segment.

**AMECH 483 3.0 units**

**Electric Vehicle Projects**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course increases the student's skill and knowledge and provides updated information in electric vehicle technology. The course emphasizes OEM (original equipment manufacturer) electric vehicle conversion programs and dedicated OEM EVs, continued EV component knowledge, hybrid-electric vehicles, Fuel Cell EV's and advances in battery and charger technologies. Appropriate safety related instructions will be included in each segment.

**AMECH 490 3.5 units**

**Introduction to Alternative Fuels**

3.0 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

Alternative fueled vehicles are extensively used in fleet service. This NATEF certified course covers theory of operation, installation, testing, trouble-shooting and repair of gaseous fuels with a focus on natural gas. Includes both dedicated and after-market systems. Gasoline and diesel powered vehicles are discussed with an emphasis on computer- controlled fuel injection. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test in compressed natural gas systems is included.

**AMECH 491 3.5 units**

**Heavy Duty Alternative Fuels**

3.0 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

Heavy duty/diesel alternative fueled vehicles with an emphasis on natural gas. Includes the theory of operation, installation, testing, trouble-shooting and repair of alternatively-fueled heavy duty vehicles with both dedicated and after-market systems. Lab intensive training in Natural Gas spark fired vehicles emphasizing computer controlled fuel management. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test are included.

**AMECH 492 3.5 units**

**H D Alt Fuel Engine Diagnosis & Repair**

3.0 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

Covers OEM and aftermarket spark ignited, alternatively-fueled truck and bus engines with an emphasis on computer controlled fuel management. The theory of operation, conversion, trouble-shooting and maintenance of alternatively-fueled heavy duty engines, emphasizing natural gas and computer controlled fuel

management systems. Includes both factory and after-market dedicated systems. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test are included.

**AMECH 493 3.5 units**

**Alt Fuels Conversion, Diagnosis & Repair**

3.0 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

Covers diagnosis and repair of light and medium duty alternative fuel vehicles including aftermarket and OEM systems. The theory of installation, regulations and certification, manufacturing techniques and trouble-shooting of alternatively-fueled vehicles, emphasizing natural gas and computer controlled fuel management systems. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test are included.

**AMECH 801 2.0 units**

**Quick Service Tech-Lubrication Service**

2.0 hours lecture, 0.2 hour laboratory

Grading: pass/no pass

Learning to be a Quick-Service Lubrication Technician is one of the fastest ways to a job in automotive technology. This one-week course prepares you to enter this field immediately with skills needed for an entry-level job doing oil changes, lubrication, under hood services and vehicle inspections. Job seeking skills are included. This course is also excellent for the do-it-yourselfer who wants to learn how professionals do a lubrication service.

**AMECH 802 2.0 units**

**Quick Service Tech-Tire Service**

2.0 hours lecture, 0.2 hour laboratory

Grading: pass/no pass

Learning to be a Quick Service Tire Technician is one of the fastest ways to a job in automotive technology. This one-week course prepares you to enter this field immediately with skills needed for an entry-level job doing tire rotation, repair, replacement, balancing and vehicle inspections. Job seeking skills are included. This course is also excellent for the do-it-yourselfer who wants to learn how professionals do tire service.

**AMECH 803 2.0 units**

**Quick Service Tech-Brake Inspection**

2.0 hours lecture, 0.2 hour laboratory

Grading: pass/no pass

Learning to be a Quick Service Brake Inspection Technician is one of the fastest ways to a job in automotive technology. This one-week course prepares you to enter this field immediately with skills needed for an entry-level job doing brake safety inspections and vehicle inspections. Job seeking skills are included. This course is also excellent for the do-it-yourselfer who wants to learn how professionals do brake service.

**AVIATION MAINTENANCE  
TECHNICIAN (AVMNT)**

**AVMNT 201 8.0 units**

**General Aircraft Science**

7.3 hours lecture, 7.3 hours laboratory

Grading: letter grade

This course partially fulfills the requirements stated in Title 14 CFR Part 147, including Mathematics, Basic

Physics, Aircraft Drawing, Weight and Balance, and Basic Electricity. This course is typically offered for eight weeks.

**AVMNT 202 8.0 units**

**General Aircraft Maintenance**

7.3 hours lecture, 7.3 hours laboratory  
Grading: letter grade

This course partially fulfills the requirements stated in Title 14 CFR Part 147, including Materials and Processes, Fluid Lines and Fittings, Ground Operation and Servicing, Cleaning and Corrosion, Maintenance Publications, Maintenance Forms and Records, Mechanic Privileges and Limitations and Human Factors. This course is typically offered for eight weeks.

**AVMNT 203 8.0 units**

**Airframe Structures**

7.3 hours lecture, 7.3 hours laboratory  
Prerequisite: AVMNT 201 and AVMNT 202  
Grading: letter grade

This course partially fulfills the requirements stated in Title 14 CFR Part 147, including Sheet Metal and Non-Metallic Structures, Aircraft Welding, Wood Structures, Aircraft Covering, and Aircraft Finishes. This course is typically offered for eight weeks.

**AVMNT 204 8.0 units**

**Airframe Components**

7.3 hours lecture, 7.3 hours laboratory  
Prerequisite: AVMNT 201 and AVMNT 202  
Grading: letter grade

This course partially fulfills the requirements stated in Title 14 CFR Part 147, including Aircraft Landing Gear, Hydraulics and Pneumatics, Aircraft instruments, Assembly and Rigging, and Airframe Inspection. This course is typically offered for eight weeks.

**AVMNT 205 8.0 units**

**Airframe Systems**

7.3 hours lecture, 7.3 hours laboratory  
Prerequisite: AVMNT 203 and AVMNT 204  
Grading: letter grade

This course partially fulfills the requirements stated in Title 14 CFR 147, including Aircraft Electrical Systems, Communication & Navigation Systems, Aircraft Fuel Systems, Cabin Atmosphere Systems, Fire Protection Systems, Position and Warning Systems and Ice and Rain Control Systems. This course is typically offered for eight weeks.

**AVMNT 206 8.0 units**

**Powerplant Systems**

7.3 hours lecture, 7.3 hours laboratory  
Prerequisite: AVMNT 203 and AVMNT 204  
Grading: letter grade

This course partially fulfills the requirements stated in Title 14 CFR Part 147, including Propellers, Engine Electrical Systems, Induction and Airflow Systems, Fuel Metering Systems, Engine Fuel Systems, Engine Cooling Systems, and Engine Fire Protection Systems. This course is typically offered for eight weeks.

**AVMNT 207 8.0 units**

**Powerplant/Reciprocating Engine**

7.3 hours lecture, 7.3 hours laboratory  
Prerequisite: AVMNT 205 and AVMNT 206  
Grading: letter grade

This course partially fulfills the requirements stated in Title 14 CFR Part 147, including Reciprocating Engines, Lubrication Systems(A), and Ignition and Starting Systems(A). This course is typically offered for eight weeks.

**AVMNT 208 8.0 units**

**Powerplant /Turbine Engines**

7.3 hours lecture, 7.3 hours laboratory  
Prerequisite: AVMNT 205 and AVMNT 206  
Grading: letter grade

This course partially fulfills the requirements stated in Title 14 CFR Part 147, including Turbine Engines, Lubrication Systems (B), Ignition and Starting Systems (B), Engine Exhaust and Reverser Systems, Engine Instrument Systems, Auxiliary Power Units and Engine Inspection. This course is typically offered for eight weeks.

**AVMNT 401AD 4.0 units**

**Aircraft Mechanics Test Preparation**

2.0 hours lecture, 4.0 hours laboratory  
Prerequisite: Eligible for FAA Airframe and Powerplant written exam or in the final one-fourth of an FAA approved maintenance technician program (AVMNT 207 or AVMNT 208).  
Grading: letter grade or pass/no pass  
Review of theoretical and technical information related to airframe and powerplant mechanics in preparation for the FAA written, oral and practical exams.

**AVMNT 601 0.0 unit**

**Aviation Refresher Training**

15.0 hours laboratory  
Grading: LBCC Non-Graded Course  
This course offers preparation for entry or re-entry into and for advancement in an aviation maintenance field. The course is designed to develop or review basic terminology, basic hand tool and equipment identification and application, basic math and other knowledge and skills needed for job preparation. This course may be used to fulfill the requirements stated in Title 14, CFR Part 47, wherein student content hours are deficient. Upon completion of the Aviation Maintenance program, student must pass an Exit Examination. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

***BASIC ADULT EDUCATION (BAE)***

**BAE 601A 0.0 unit**

**Basic Skills Development I**

15.0 hours laboratory  
Grading: LBCC Non-Graded Course  
This course is a non-credit course designed to improve basic skills for students whose abilities range from primary to pre-high school level. The course emphasizes the development of basic reading, writing and math skills for students who: (1) are enrolled, or plan to enroll, in regular courses and need to develop or improve their basic educational skills; (2) wish to review or complete their elementary education; (3) are preparing to take exams or need to develop basic skills for employment or special educational/vocational programs; or (5) wish to improve their mastery of English as a Second Language. This course is part of a sequence of courses leading to a Certificate of Completion in Basic Skills. This course

may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**BAE 601B 0.0 unit**

**Basic Skills Development II**

15.0 hours laboratory

Grading: LBCC Non-Graded Course

This course is part of a non-credit program designed to improve basic skills for students whose abilities range from pre-high school through pre-college level. The course emphasizes the development of basic reading, writing and math skills for students who: (1) are enrolled, or plan to enroll, in regular courses and need to improve or refresh their basic educational skills; (2) wish to review or complete their secondary education; (3) are preparing to take exams or need to develop basic skills for employment or special educational/vocational programs or college/university entrance; or (4) wish to improve their mastery of English as a Second Language. This course is part of a sequence of courses leading to a Certificate of Completion in Basic Skills. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**BIOLOGY (BIO)**

**BIO 1A (Part of CAN BIO SEQUENCE A) 5.0 units**

**Biology for Science Majors**

3.0 hours lecture, 6.0 hours laboratory

Prerequisite: CHEM 1A

Grading: letter grade

This is the first semester of a one-year survey of biology. It includes the chemistry of life, cellular organization, biological membranes, energetics, genetics, evolution and diversity of lower life forms and plants.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 1B (Part of CAN BIO SEQUENCE A) 5.0 units**

**Biology for Science Majors**

3.0 hours lecture, 6.0 hours laboratory

Prerequisite: BIO 1A

Grading: letter grade

This is the second semester of a one-year survey of biology. It includes an overview of structures and life processes in plants and animals, animal and plant taxonomies, ecology, and behavior.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 2 (CAN BIOL 14) 5.0 units**

**General Microbiology**

3.0 hours lecture, 6.0 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to the anatomy of bacteria, fungi, protozoa, viruses and prions. It covers microbial metabolism, bacterial and viral genetics, genetic engineering, control of micro-organisms, microbial nutrition and growth, microbial ecology, the most common genera of micro-organisms and the replication of viruses and prions. Aspects of the course that are particularly helpful to health fields include a study of epidemiology and human-microbe interactions, host defenses and the immune system, and the most common infectious diseases of the body systems. The course is

designed to meet the requirements of health fields such as registered nursing as well as to serve as a general education laboratory science course.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 5 4.0 units**

**Plant Biology**

3.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course utilizes lecture, lab, and fieldwork to present the student with fundamental concepts and principles of plant life, including a study of plant structure, function, and diversity. Intended for the non-science major. Not open to students registered in or with credit in BIO 1A.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 11 3.0 units**

**Environmental Problems of Man**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a study of the effects of man’s interaction with the total environment, the problems resulting from ignoring known ecological principles and the socio-cultural implication of biological concepts. Selected crisis situations will be examined. Physical, biological and political means and methods of reversing environmental deterioration will be considered, as well as conservation and management of natural resources.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 20 4.0 units**

**Marine Biology**

3.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course provides an introduction to marine natural history, incorporating biological concepts such as plants, animals and habitats of the marine environment. A variety of marine communities are discussed in relation to their biotic, physical and chemical components. Lab work and field trips are included.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 20H 4.0 units**

**Honors Marine Biology**

3.0 hours lecture, 3.0 hours laboratory

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course provides an introduction to marine natural history, incorporating biological concepts such as plants, animals and habitats of the marine environment. A variety of marine communities are discussed in relation to their biotic, physical and chemical components. Lab work and field trips are included.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 22 2.0 units**

**The Marine Environment**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course focuses on the marine environment as a unique feature of the Earth and investigates areas of scientific and public concern: the pervasiveness of the ocean and its effect on weather, its contributions to the diversity of life forms and to the physical and historical development of humankind, its impact on geopolitical

and economic matters, the impact of oceanic pollutants and the potential exploitation of marine resources. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**BIO 25 3.0 units**

**Biology and Society**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course covers a variety of basic biological concepts, discoveries and theories that also have important social, philosophical, ethical and religious implications. Students are introduced to critical thinking skills and scientific methods while exploring topics such as biological evolution, natural selection, bioethics, HIV and AIDS, genetic engineering, reproductive technologies, extinctions, overpopulation and major ecological issues.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 28 2.0 units**

**Field Natural History of the Mountains**

1.3 hours lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course introduces students to the physical and biological aspects of mountain ecosystems, using lecture, laboratory, and at least two weekend field trips. An emphasis is placed on life zones and the identification of their representative plants and animals.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**BIO 30 4.0 units**

**Wildlife Biology**

3.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This natural history course utilizes lecture, laboratory, and field trips to provide a general survey of all major forms of life, characteristics and behaviors of selected forms, with a focus on California representatives. Various natural communities are discussed.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 31 2.0 units**

**Birds**

1.5 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This is an introductory course for the identification and recognition of the various bird species common to Southern California. This course discusses birding identification terminology including bird anatomy, behavior, variations, migrations and speciation. Emphasis is on field identification and use of the field guide. Habitats, behaviors, songs, ecology and natural history of the species will be summarized. This course includes at least three required field trips to local sites.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**BIO 37 2.0 units**

**Field Natural Hist: South Calif. Deserts**

1.3 hours lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This natural history course utilizes lecture, laboratory, and field trips to acquaint students with the basic physical and biological features of the desert environment. Plants and animals of the desert ecosystem are covered with an emphasis on their adaptations to the environment.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**BIO 38 2.0 units**

**Field Natural History: Newport Bay**

1.3 hours lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This natural history course utilizes lecture, laboratory, and field trips to study the estuarine wetland habitats of Newport Bay. Students will become acquainted with the basic physical, biological, historical, and political background of the bay. The common plants and animals will be studied with an emphasis on adaptations.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**BIO 41 3.0 units**

**Contemporary Biology**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course covers the general principles of biology, such as molecular biology, organic evolution, taxonomy, basic similarities of living patterns, basic physiology and anatomy of body systems, genetic continuity and environmental biology. Significant problems of modern biology are included. Not open for credit to students registered in or with credit in BIO 1A-B or BIO 5.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 41H 3.0 units**

**Honors Contemporary Biology**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program.

Corequisite: BIO 41L

Grading: letter grade or pass/no pass

This course covers the general principles of biology such as molecular biology, organic evolution, taxonomy, basic similarities of living patterns, basic physiology and anatomy of body systems, genetic continuity and environmental biology. Significant problems of modern biology are included. Not open for credit to students registered in or with credit in BIO 1A-B or 5.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 41L 1.0 unit**

**Contemporary Biology Laboratory**

3.0 hours laboratory

Grading: letter grade or pass/no pass

This is an audio tutorial lab that provides practical, hands on experience in the field of biology. Students complete a series of experiments and demonstrations that clarify the general principles developed in BIO 41 lecture. The BIO 41 Lab is not open for credit to students registered in or with credit in BIO 1A-B or 5.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 60 4.0 units**

**Human Biology 1**

4.0 hours lecture

Grading: letter grade or pass/no pass

This course combines the elementary principles of anatomy, physiology, microbiology, nutrition and very elementary chemistry. Students are expected to learn the basic terminology of these fields as a foundation for further study of medical problems and diseases. BIO 60 is designed to fulfill the general science requirement and to meet the pre-requisite needs of the health occupations student. This course is not open for credit to students registered in or with credit in ANAT 1 and PHYS 1.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 60L 1.0 unit**

**Human Biology 1 Laboratory**

3.0 hours laboratory

Prerequisite: BIO 60 (may be taken concurrently)

Grading: letter grade or pass/no pass

Human Biology lab provides a practical experience in an audio-tutorial setting. Experiments and demonstrations are selected which clarify the principles developed in BIO 60. Not open for credit to students registered in or with credit in BIO 1A-B or BIO 5.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BIO 61 3.0 units**

**Human Biology 2**

3.0 hours lecture

Prerequisite: BIO 60 or ANAT 41 or (ANAT 1 and PHYSI 1).

Grading: letter grade or pass/no pass

This course is an introduction to the study of disease, including cause, prevention and symptoms of the common human diseases. The course assumes a basic understanding of anatomy and physiology. Biology 61 is designed for the general student and those in the health technology fields.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

***BUSINESS, GENERAL (GBUS)***

**GBUS 5 3.0 units**

**Introduction to Business**

3.0 hours lecture

Grading: letter grade

This course is designed to provide a basic understanding of the business environment and the prime operating functions of management/organization, human resources, marketing, information/technology and accounting/finance. These skills are useful for both entry and mid-level positions. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GBUS 251 3.0 units**

**Business Mathematics**

3.0 hours lecture

Recommended Preparation: MATH 815 or basic math skills.

Grading: letter grade

This course emphasizes quantitative methods which can be applied to a variety of business scenarios ranging from pricing, markdowns, discounts, interest and payroll to business statistics, income statements and balance sheets.

***BUSINESS, INTERNATIONAL (IBUS)***

**IBUS 1 3.0 units**

**Introduction to International Business**

3.0 hours lecture

Grading: letter grade

This course offers an introduction to the global business macro-environment and orients students toward a career in the field of international business. Topics covered include economic variables, cultural differences, political risk, regional trade agreements, foreign direct investment, and exchange rates. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**IBUS 20 3.0 units**

**Export-Import Business Practices**

3.0 hours lecture

Grading: letter grade

This class consists of the basics of the export-import business, how to handle money matters and how to buy and sell. It is designed for the person seeking an entry level position, contemplating the start of an export-import business or the manager who wishes to expand a company's marketing opportunities.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**IBUS 40 3.0 units**

**International Banking and Finance**

3.0 hours lecture

Grading: letter grade

This course offers an exploration of the financial requirements of international business. Topics covered include exchange rates, sources of funds, international credit and payment arrangements and methods of minimizing financial risks.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**IBUS 52 3.0 units**

**Introduction to Supply Chain Management**

3.0 hours lecture

Grading: letter grade

This course orients the student to the alternative modes, systems, rates, services and regulations in global transport including ocean, air, and surface carriers and systems. It emphasizes the practical skills and techniques utilized to successfully market on an international basis.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*



**IBUS 55 3.0 units**

**Intro to Transportation Management**

3.0 hours lecture

Grading: letter grade

This course is designed to provide a basic understanding of the functions and services involved in the movement of freight throughout the global marketplace, by focusing on the many requirements, restrictions, rules/regulations for ocean, air, and land transportation in both domestic and foreign markets.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**IBUS 60 3.0 units**

**International Business Law**

3.0 hours lecture

Recommended Preparation: LAW 18A

Grading: letter grade

This course is designed to explore the fundamentals of international business law and examine the scope of how international disputes affect global trade. It is appropriate for students who wish to pursue a career in the business field, especially those students interested in international business.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**IBUS 75 3.0 units**

**Introduction to Logistics**

3.0 hours lecture

Grading: letter grade

This course is designed for students and entry-level employees interested in becoming logistics professionals. Course content will focus on logistics systems and concepts, including Inventory & Warehouse Management, Logistics Information Systems, Facility Location and Global Logistics.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**BUSINESS, LAW (LAW)**

**LAW 18A (CAN BUS 8) 3.0 units**

**Business Law**

3.0 hours lecture

Grading: letter grade

This course is designed to explore the overall fundamental understanding of business law today. It examines the scope of how contracts and tort law affect the civil legal process as well as the nature of our current business environment. It is appropriate for students who wish to pursue a career in the business field. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**LAW 18B 3.0 units**

**Business Law**

3.0 hours lecture

Grading: letter grade

This course is designed to explore the overall fundamental operations of several distinct legal business entities and corporate structures. It examines the scope of how agency and employment law affect the nature of how business decisions are made and their significance. It is appropriate for students who wish to pursue a career

in the business field, especially those students interested in business management or business law.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**BUSINESS, MANAGEMENT (MGMT)**

**MGMT 49A 3.0 units**

**Introduction to Management**

3.0 hours lecture

Grading: letter grade

Introduction to Management is the entry level management course designed to introduce the traditional management tasks of planning, organizing, influencing and controlling. Course topics will include important issues such as innovation, technology, diversity, quality, ethics and the global environment.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MGMT 49B 3.0 units**

**Human Resources Management**

3.0 hours lecture

Grading: letter grade

This course will focus on the theory and practical applications of Human Resource management: planning, recruiting, selecting, training and evaluating. Course topics will include important issues such as staffing & development, compensation & benefits, safety & health, labor-management relations, ethics and legal requirements.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MGMT 58 3.0 units**

**Leadership and Supervision**

3.0 hours lecture

Grading: letter grade

This course is designed for the first-line manager to develop necessary skills for success in a diverse workplace. Focus will be on human behavior issues such as ethics, motivation, communication, group dynamics and leadership development. Organizational issues will include quality, productivity and performance.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MGMT 60 3.0 units**

**Management & Organization Behavior**

3.0 hours lecture

Grading: letter grade

This course provides a comprehensive view of Organizational Behavior from 3 primary levels of analysis: individual behavior, group behavior and the organizational system. Of equal importance is the influence of globalization, diversity, ethics/social responsibility and technology on the organization. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MGMT 80 3.0 units**

**Small Business Entrepreneurship**

3.0 hours lecture

Grading: letter grade

This course is designed to provide an understanding of the entrepreneurial elements of starting a small business with an eventual focus on the traditional management skills necessary to extend the life of the startup business. Major emphasis is placed on the development of a coherent business plan. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**BUSINESS, MARKETING (MKTG)**

**MKTG 40 3.0 units**

**Salesmanship**

3.0 hours lecture

Grading: letter grade

This course is designed for those looking at a career in professional sales or as a refresher for current sales professionals. The course objective is to develop a thorough understanding of the importance of professional selling within the entire marketing process, with an emphasis on developing strong customer relationships.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MKTG 41 3.0 units**

**Marketing Communications**

3.0 hours lecture

Grading: letter grade

This course will help the student develop a thorough understanding of the various forms of Marketing Communications, such as advertising, sales promotion, direct-response and publicity/public relations. The focus will be on the concept of Integrated Marketing Communications as one of the functions of marketing strategy. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MKTG 41H 3.0 units**

**Honors Marketing Communications**

3.0 hours lecture

Grading: letter grade

This Honors course will help the student develop a thorough understanding of the various forms of Marketing Communications, such as advertising, sales promotion, direct-response and publicity/public relations. The focus will be on the concept of Integrated Marketing Communications as one of the functions of marketing strategy.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MKTG 42 3.0 units**

**Retailing Principles and Practices**

3.0 hours lecture

Grading: letter grade

This course will introduce the various elements essential for effective retail management: accounting, finance, management, information technology, and marketing. The focus will be on both traditional as well as online retailing, providing students with strategies for effective planning and execution.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MKTG 47 3.0 units**

**Essentials of Marketing**

3.0 hours lecture

Grading: letter grade

This course will analyze the importance of the marketing concept throughout an organization. Students will develop the skills necessary to plan, organize and implement a marketing strategy for a product or service. These skills are useful for both entry and mid-level marketing positions.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CARPENTRY (CARP)**

**CARP 211 10.0 units**

**Carpentry 1**

6.0 hours lecture, 13.0 hours laboratory, 0.6 hour supplemental learning

Grading: letter grade or pass/no pass

This course is an introduction to the fundamentals of the building trades. Topics of instructions include: safety, building codes, construction mathematics, rough framing, residential concrete, residential concrete forms, blueprint reading, and technical information on materials and methods of residential construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work. Students are required to attend 10 hours at the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CARP 212 10.0 units**

**Carpentry 2**

6.0 hours lecture, 13.0 hours laboratory

Prerequisite: CARP 211

Grading: letter grade or pass/no pass

This course will cover the topics of safety and rough framing. Rough framing includes mudsills and their placement, girder placement, foundation types including slab on grade and stemwall foundation, floor joists, sub-flooring, wall framing systems, ceiling joists and roughing out stairs. Field trips and special projects will also be part of this course.

**CARP 213 10.0 units**

**Carpentry 3**

6.0 hours lecture, 13.0 hours laboratory

Prerequisite: CARP 211

Grading: letter grade or pass/no pass

This is an advanced course in Carpentry covering various residential construction trades. Topics of instructions include: safety, building codes, construction mathematics, rough framing, residential roof framing, exterior finishes, interior finishes, blueprint reading, and technical information on materials and methods of residential construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

**CARP 219 4.0 units**

**Residential Roof Framing**

2.0 hours lecture, 6.0 hours laboratory  
Recommended Preparation: CARP 211  
Grading: letter grade

This is an advanced course in Carpentry covering residential roof framing. Topics of instruction include roof structures, calculations and layout of various rafters, codes requirements, roof construction, and estimating. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

**CARP 222 4.0 units**

**Residential Stairs**

2.0 hours lecture, 6.0 hours laboratory  
Recommended Preparation: CARP 211  
Grading: letter grade

This is an advanced course in Carpentry covering residential stairs framing. Topics of instruction include stair design, calculation, layout, and construction. Practical instruction is given in the carpentry laboratory work.

**CARP 225 4.0 units**

**Metal Framing**

2.0 hours lecture, 6.0 hours laboratory  
Recommended Preparation: CARP 211  
Grading: letter grade

This course covers the fundamentals of residential light steel framing. Topics include: raised floor construction, wall framing, trussed roof fabrication and installation, applicable building codes and blueprint reading. The fundamentals are learned through laboratory work which requires the use of standard construction tools and materials.

**CARP 227 4.0 units**

**Finish Carpentry**

2.0 hours lecture, 6.0 hours laboratory  
Recommended Preparation: CARP 211  
Grading: letter grade

This is an advanced course in Carpentry covering residential interior finishes. Topics of instruction include the installation and taping of drywall texturing, hanging doors, installing base, and crown mouldings, design, estimating, and layout. Practical instruction is given in the carpentry laboratory work.

**CARP 230 4.0 units**

**Cost Estimating**

4.0 hours lecture  
Recommended Preparation: CARP 440  
Grading: letter grade or pass/no pass

This course is designed for those individuals needing to produce accurate project estimates; topics will include interpretation of project information from a detailed blueprint and processing it into a final detailed estimate.

**CARP 245 3.0 units**

**Contracting Laws and Management**

3.0 hours lecture  
Grading: letter grade

This course is designed for those with construction experience that wish to become contractors. Topics of instruction include the following: home improvement certification, contractor license law, labor laws, payroll deductions planning, management principles, lien laws, and business organization.

**CARP 311 3.0 units**

**Carpentry 1**

1.6 hours lecture, 4.3 hours laboratory  
Grading: letter grade or pass/no pass

This course will cover topics of safety and rough framing. Rough framing includes mudsills and their placement, girder placement, floor joists, sub-flooring, wall framing systems, ceiling joists and roughing out stairs. Field trips and special projects will also be part of this course.

**CARP 312 3.0 units**

**Carpentry 2**

1.6 hours lecture, 4.3 hours laboratory  
Prerequisite: CARP 311

Grading: letter grade or pass/no pass  
This course will cover safety and rough framing that will include: mudsills and their placement, girder placement, floor joists, sub-flooring, wall framing systems, and ceiling joists.

**CARP 313 3.0 units**

**Carpentry 3**

1.6 hours lecture, 4.3 hours laboratory  
Prerequisite: CARP 312

Grading: letter grade or pass/no pass  
This course is an introduction to the fundamentals of the building trades. Topics of instruction include safety, roof types, roof theory, exterior wall finish, interior finish, and stairway construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

**CARP 314 3.0 units**

**Carpentry 4**

1.6 hours lecture, 4.3 hours laboratory  
Prerequisite: CARP 313

Grading: letter grade or pass/no pass  
This is an advanced course in Carpentry covering residential foundation designs, form construction, and advanced wood frame construction. Topics of instruction include the installation of concrete forms, layout, concrete placement, and Post and Beam Construction. Practical instruction is given in the carpentry laboratory.

**CARP 415A 2.0 units**

**Home Remodeling and Repair**

1.0 hour lecture, 3.0 hours laboratory  
Grading: letter grade or pass/no pass

This course focuses on home improvement projects and introduces the student to basic home remodeling. Topics will include safety, building codes, obtaining building permits, rough mechanical, trade related math, hand and power tools, techniques for installing or repairing plumbing fixtures, electrical repairs and upgrades, and energy saving concepts.

**CARP 415B 2.0 units**

**Home Remodeling and Repair**

1.0 hour lecture, 3.0 hours laboratory

Prerequisite: CARP 415A

Grading: letter grade or pass/no pass

This course focuses on home improvement projects and introduces the student to basic home remodeling. Topics will include safety, building codes, framing floor systems, framing walls with door and windows, trade related math, hand and power tools, framing various roof systems, and related construction hardware.

**CARP 415C 2.0 units**

**Home Remodeling and Repair**

1.0 hour lecture, 3.0 hours laboratory

Prerequisite: CARP 415B

Grading: letter grade or pass/no pass

This course in home remodeling covers interior sub-crafts. Topics of instruction include insulation, safety, drywall, finish carpentry, tile, estimating, and relevant codes. Practical instruction is given in the carpentry laboratory work.

**CARP 415D 2.0 units**

**Home Remodeling and Repair**

1.0 hour lecture, 3.0 hours laboratory

Prerequisite: CARP 415C

Grading: letter grade or pass/no pass

This course in home remodeling covers exterior sub-crafts. Topics of instruction include exterior flashing, safety, roofing, stucco, estimating, exterior siding, and relevant building codes. Practical instruction is given in the carpentry laboratory work.

**CARP 440 3.0 units**

**Blueprint Reading for Construction Trade**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course introduces students to construction blueprint reading through a study of the fundamental skills and concepts involved in reading and interpreting drawings.

**CHEMISTRY (CHEM)**

**CHEM 1A (CAN CHEM2) (Pt CAN CHEM SEQ) 5.0 units**

**General Chemistry**

4.0 hours lecture, 5.0 hours laboratory

Prerequisite: CHEM 2 or qualification through the Chemistry assessment process and MATH 130, 130B, qualification through the Math placement process, or one year of high school intermediate algebra with a grade of B or better in the second semester.

Recommended Preparation: One year high school Chemistry.

Grading: letter grade or pass/no pass

This is the first semester of a one year course which satisfies the general chemistry requirement for science, engineering, and premed majors. Topics covered include atomic theory and bonding, the periodic table and chemical properties, thermochemistry, chemical reactions, solids, liquids and solutions, gases and the ideal gas laws, and an introduction to equilibrium. There is an emphasis on stoichiometric calculations. The lab stresses quantitative measurements in chemical reactions.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CHEM 1B (CAN CHEM4) (Pt of CAN CHEM SEQ) 5.0 units**

**General Chemistry**

4.0 hours lecture, 5.0 hours laboratory

Prerequisite: CHEM 1A

Grading: letter grade or pass/no pass

This course is the second semester of a one year course and fulfills the general chemistry requirement for students in chemistry, engineering, life science, physics, pre-dental, pre-medical, and pre-nursing programs. Topics covered include equilibrium of weak acids and bases, slightly soluble salts and complex ions in aqueous solution. The basic principles of thermodynamics and electrochemistry are presented, along with an introduction to coordination, nuclear and organic chemistry. The lab stresses descriptive inorganic chemistry and qualitative analysis.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CHEM 2 4.0 units**

**Elementary Chemistry**

4.0 hours lecture, 2.0 hours laboratory

Prerequisite: MATH 110 or MATH 110B or MATH 880 or qualification through the math assessment process or one year high school Elementary Algebra with a grade of B or better as reflected in the second semester grade .

Grading: letter grade or pass/no pass

This course is a prerequisite for CHEM 1A and prepares science or pre-professional majors, who are required to take CHEM 1A, but lack adequate preparation. This course provides basic knowledge and problem solving techniques necessary for CHEM 1A-B. Formula and equation writing, basic gas laws and stoichiometry are stressed. Students should be aware that many schools (CSULB included) do not allow credit for CHEM2, once CHEM 1A (or the equivalent course at that school) has been successfully completed.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CHEM 3 (CAN CHEM6) (Pt of CAN CHEM SEQ) 5.0 units**

**Intro to Gen, Organic & Biochemistry**

4.0 hours lecture, 3.0 hours laboratory

Prerequisite: MATH 110 or MATH 110B or MATH 880 or qualification through the math assessment process or one year high school Elementary Algebra with a grade of B or better as reflected in the second semester grade .

Grading: letter grade or pass/no pass

This course will introduce the principles of general, organic and biological chemistry. A variety of topics will be addressed, including atomic theory, chemical formulas, nomenclature, stoichiometry, solutions, acids and bases, hydrocarbons, alcohols and ethers, carbonyl compounds, carbohydrates, lipids, amino acids and proteins, nucleic acids, biochemical energetics and metabolism. Lab work will reinforce basic concepts and provide experience in manipulating lab equipment. This course satisfies the needs of nursing, home economics and allied health sciences. This course does not prepare students for CHEM 1A.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CHEM 12A**

**5.0 units**

**Organic Chemistry**

4.0 hours lecture, 5.0 hours laboratory  
Prerequisite: CHEM 1A and CHEM 1B  
Grading: letter grade or pass/no pass

The course emphasizes bonding, structure, properties and reactions of organic compounds. Modern spectroscopic and analytical techniques are covered, and an emphasis is placed on reaction mechanisms and kinetics. The laboratory part of the course stresses the techniques involved in the synthesis of organic compounds. This is the first semester of a one year course which satisfies the Chemistry requirement for science, engineering, and pre-medical or pre-dental majors. The course is offered only in the Fall Semester.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CHEM 12B**

**5.0 units**

**Organic Chemistry**

4.0 hours lecture, 5.0 hours laboratory  
Prerequisite: CHEM 12A  
Grading: letter grade or pass/no pass

The course emphasizes bonding, structure, and reactions of organic compounds. Modern spectroscopic and analytical techniques are covered, and an emphasis is placed on reaction mechanisms and synthesis. The laboratory part of the course stresses techniques involved in the synthesis of organic compounds. This is the second semester of a one year course which satisfies the Chemistry requirement for science, engineering, and pre-medical or pre-dental majors. The course is only offered in the Spring Semester.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CHILD AND ADULT  
DEVELOPMENT-ADULT AND  
ELDER CARE (CDAD)**

**CDAD 270**

**3.0 units**

**Adult Development**

3.0 hours lecture  
Grading: letter grade or pass/no pass

This course is designed for prospective caregivers of adults needing assistance and the elderly. It provides an overview of social, psychological and physical effects of aging, emphasizing differences among individuals, including ethnic differences. Two off campus agency visitation are required.

**CDAD 273AD**

**4.0 units**

**Work Experience — Adult Development**

1.0 hour lecture, 10.0 hour laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time or personal/family responsibility directly related to occupational goal or career of interest to the student.

**CHILD AND ADULT  
DEVELOPMENT-EARLY  
CHILDHOOD ED (CDECE)**

**CDECE 1**

**1.0 unit**

**The Developing Professional**

1.0 hour lecture  
Grading: letter grade or pass/no pass

This course focuses on professional development in Early Childhood Education and explores various types of programs and opportunities for specific occupations. This course also provides students with an opportunity to conduct a job search, investigate the interviewing process, improve communication skills and build a plan for professional competency development.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 19**

**3.0 units**

**Health, Safety and Nutrition DS7**

3.0 hours lecture  
Recommended Preparation: PEPP 23M1  
Grading: letter grade or pass/no pass

This course is for school food service managers, childcare and/or family day care providers who assume responsibility for child nutrition programs and education and education safety. The curriculum includes guidelines for compliance with current federal, state and local legislation associated with child feeding and safety. It provides an introduction to basic child and infant CPR and pediatric first aid instruction but does not provide certification. This course is not open for credit to students registered in or with credit in F\_N 19. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 31**

**2.0 units**

**Adult Supervision**

2.0 hours lecture  
Recommended Preparation: Current or prior experience as a teacher in an ECE program.  
Grading: letter grade

This course is a study of the methods and principles of supervising student teachers and teaching staff in early childhood classrooms with an emphasis on the role of experienced classroom teachers who function as mentors to new teachers while simultaneously addressing the needs of children, parents, and staff. This course satisfies the adult supervision requirement for the Child Development Master Teacher, Site Supervisor and Program Director Permits from the Commission of Teacher Credentialing. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 34 3.0 units**

**Children’s Literature DS3**

3.0 hours lecture

Grading: letter grade

This course is a survey course of contemporary and traditional literature including a bibliography for schools, community, libraries, aids to parents, preschool and elementary school teachers. Topics such as guiding children’s reading and developmentally appropriate book selection is covered.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 40 3.0 units**

**Infant Development & Educaring D4**

3.0 hours lecture

Prerequisite: CDECE 45 or CDECE 47

Grading: letter grade

This course is a study of the infant, pre-birth to 18 months of age. Topics will include: the role of the adult in designing, evaluating and implementing the educare (education and care) of infants in center-based programs, family home care and parental care, based on and respectful of, the infant’s unique abilities and needs. The course will also cover developmental theories, program quality standards, laws and regulations (Title 22), the role of the primary caregiver, curricula, culturally sensitive care, as well as early recognition and intervention for infants with special needs. Information about the health, nutrition and safety components of infant care is included as well. This course meets the Department of Social Services Classification Indicator DS4.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 41 3.0 units**

**Toddler Development & Educaring D4**

3.0 hours lecture

Prerequisite: CDECE 45 or CDECE 47

Grading: letter grade

This course is a study of the educaring (education and care) of toddlers 18 to 36 months of age. Topics will include: the role of the adult in a center-based program, in family home care and parental care; an overview of child development theories pertinent to this age; and activities and methods which nurture the toddler’s intellectual, language, emotional, social, personality and motor development. The course will also cover effective behavior management; laws and regulations (Title 22), program quality standards, group size and continuity of care, the role of the primary caregiver, culturally sensitive care; as well as early recognition and intervention for toddlers with special needs, and information about the health, nutrition and safety components of toddler care. This course meets the Department of Social Services Classification Indicator DS4.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 45 3.0 units**

**Child & Adolescent Development DS1**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a study of social, emotional, intellectual and physical growth patterns from conception through adolescence. Theories of development are studied as an integrated approach to each of the aforementioned phases of life. The course meets the State of California

requirement for teaching in early childhood education programs. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 47 3.0 units**

**Human Development**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a study of biosocial, cognitive and psychosocial development throughout the life span. Theories of development are studied as an integrated approach to each phase of life from prenatal development through death and dying. This course meets the State of California requirement for teaching preschool and the prerequisite for entrance into the nursing program. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CDECE 47M1 1.0 unit**

**Human Development (Adult Years)**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course serves as an introduction into the study of adult development and the aging process. Developmental changes in humans are explored, including; biosocial, cognitive and psychosocial from early adulthood through old age. This course fulfills the requirements for students who have completed a course in human development covering the prenatal-adolescent periods and who need a course specific to adult development.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 48 3.0 units**

**Child, Family and Community D2**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a study of various socialization factors such as family, school and community and their effects on a child’s development. The importance of culture is explored as well as the dynamics of human relations in a multicultural, urban environment and in agencies concerned with health, education and welfare of children and families. This course fulfills state licensing requirements for child, family and community D2. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CDECE 50 3.0 units**

**Intro to Curriculum for Young Children**

3.0 hours lecture

Prerequisite: CDECE 45 or CDECE 47

Grading: letter grade or pass/no pass

This course is study of early childhood education curriculum for children three-to five years of age. Methods for planning and implementing developmentally appropriate learning activities are

covered. Strategies for using authentic child and program assessment in the preschool classroom are included. The focus is on curricular approaches, observation, lesson planning, practice and assessment.

**CDECE 53 3.0 units**

**Principles and Practices**

3.0 hours lecture

Grading: letter grade or pass/no pass

The course is an overview of early childhood education, historical trends, delivery systems and program philosophies. Observation and analysis of the elements of quality early childhood practices as well as methods of guidance will be included. Environments will be examined for influences of culture and inclusion on the developing child. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 54 3.0 units**

**Art & Creative Dev in Early Childhood D3**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course explores the principles and methods of providing creative expression and art experiences for young children, 3-5 years old. This course fulfills the state licensing requirements for programs/curriculum D3.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 55 3.0 units**

**Music & Movement in Early Childhood D3**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course explores the principles and methods of providing music and movement experiences for young children, 3-5 years. Students develop skills to effectively sing, play simple musical instruments and use movement activities with young children.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 57 3.0 units**

**Science & Math in Early Childhood D3**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course explores the principles and methods of planning, implementing and evaluating science and math experience for young children 3-5 years old. Students will develop strategies to foster the child's natural curiosity about the environment and quantity through activities that encourage exploration, experimentation, problem solving and discovery through play. This course fulfills state requirements for programs/curriculum D3.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 58 3.0 units**

**Language & Literacy in Early Childhood**

3.0 hours lecture

Grading: letter grade

This course surveys the range of language and literacy theories, practices and activities that support young

children's development. Meets state licensing requirements for program curriculum D3.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 59 3.0 units**

**Guiding Young Children DS3**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course studies ways of approaching and understanding child guidance as it applies to children from birth to age 8 in family and community settings as well as developing a personal approach to child guidance based on current scientific research and theory concerning child development. The course utilizes lecture, discussion, small group work, observation, and research to explore the processes linked to the development of prosocial behavior in young children. The course focuses on the use of developmentally appropriate methods of guiding children to promote positive self-esteem.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 60A 3.0 units**

**Admin of Child Development Programs D6**

3.0 hours lecture

Prerequisite: CDECE 45 or CDECE 47.

Grading: letter grade or pass/no pass

This course is a study of the planning, organization and administration of early childhood programs. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 60B 3.0 units**

**Advanced Supervision of ECE D6**

3.0 hours lecture

Prerequisite: CDECE 45 or CDECE 47.

Grading: letter grade or pass/no pass

This course is an in-depth study of the principles of organizing and administering early childhood programs, emphasizing motivational leadership, program quality and positive relationships with the community.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 61 3.0 units**

**Teaching in a Diverse Society D3**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course examines the relationship of culture, language, family structure, ability, socioeconomic status and other issues on the formation of the young child's concept of self and the learning process. Emphasis is on practical early childhood classroom applications for diverse populations, including the integration of cultures, generations, genders, and races into the classroom, facilitation of second language acquisition, and practical teaching strategies for implementing an anti-bias curriculum. It meets state licensing requirements for program curriculum D3.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 66 3.0 units**

**Observation and Assessment DS3**

2.0 hours lecture, 3.0 hours laboratory  
Prerequisite: CDECE 45 or CDECE 47.  
Recommended Preparation: CDECE 48 and CDECE 50.  
Grading: letter grade  
This course focuses on the purpose, value and use of formal and informal observations and assessment within the play-based learning environment of young children. The course meets state licensing requirements for program curriculum DS3. Proof of negative TB test is required. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 68 3.0 units**

**Practicum D3**

2.0 hours lecture, 4.0 hours laboratory  
Prerequisite: CDECE 1 and CDECE 19 and CDECE 48 and CDECE 50 and CDECE 53 and CDECE 61 and CDECE 66 and CDLL 51A or CDLL 52A  
Grading: letter grade or pass/no pass  
This course provides students the opportunity to plan, prepare, execute and evaluate various experiences with preschool age children. Students will learn specific techniques of working with children, parents and staff, procedures necessary for maintenance and use of equipment and the planning of curriculum for early childhood education programs. There are 72 hours of lab experience over the course of the semester. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 71AD 2.0 units**

**Work Experience — Child Development**

1.0 hour lecture, 4.1 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Grading: letter grade or pass/no pass  
This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. The course also involves vocational learning experiences through employment/internship directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 72AD 3.0 units**

**Work Experience — Child Development**

1.0 hour lecture, 8.3 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Grading: letter grade or pass/no pass  
This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also

involves vocational learning experience through employment/internship directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 73AD 4.0 units**

**Work Experience — Child Development**

1.0 hour lecture, 12.5 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Grading: letter grade or pass/no pass  
This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/internship directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDECE 259 3.0 units**

**Challenging Behaviors in Early Childhood**

3.0 hours lecture  
Recommended Preparation: CDECE 45 or CDECE 47 or CDECE 59.  
Grading: letter grade  
This course is the study of the relationship between developmental, environmental, and social-emotional variables and the young child's challenging and/or extreme behaviors. Strategies, for use by the early childhood teacher or parent, which support the child's development of social competence, self-control and self-image will be covered. Methods of teaching children friendship skills, "feeling vocabularies", problem solving and anger management are included. Observations at a variety of sites in the community will be required in this course.

**CDECE 400 0.5 unit**

**ST ECE Thematic Topics**

0.5 hour lecture  
Grading: pass/no pass  
This course will provide current theoretical and conceptual information relevant to the profession. Topics are based on pertinent themes to this program's line of study and may include, but are not limited to infant and toddler, preschool and school-age education and care, curriculum, program organization, parent education, and supervision and management responsibilities in various childhood settings. This is a "special topics" course. This course's subject matter will vary by semester. Please refer to the schedule of classes for a particular semester's topic. This course may be repeated for credit as topics change.



**CDECE 401 0.5 unit**

**ST ECE Developmental Topics**

0.5 hour lecture

Grading: pass/no pass

This course will provide current theories, concepts, and strategies relevant to the profession in regards to child developmental levels. Topics are based on pertinent child development lines of study and may include, but are not limited to infant and toddler, preschool, school age, and the exceptional child. This is a "special topics" course. This course's subject matter will vary by semester. Please refer to the schedule of classes for a particular semester's topic. This course may be repeated for credit as topics change.

**CHILD AND ADULT  
DEVELOPMENT-FAMILY DAY  
CARE (CDFDC)**

**CDFDC 212A 3.0 units**

**Family Child Care Management A**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course assists persons planning to become or currently involved in the group care of children in the home. This course focuses on setting up a child centered environment that meets licensing and accreditation standards.

**CDFDC 212B 3.0 units**

**Family Child Care Management B**

3.0 hours lecture

Grading: letter grade

This course assists persons planning to become or currently involved in the group care of children in the home. This course focuses on the child guidance as well as the business aspects of family child care including working with parents, record keeping, and communication. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CHILD AND ADULT  
DEVELOPMENT-FAMILY  
DEVELOPMENT (CDF)**

**CDF 210A 3.0 units**

**Skills/Strat. for Family Workers Pt 1**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is part one of a two part series. The course is designed to prepare students and workers to assist families with the values, knowledge, and skills needed to empower families to achieve self-reliance. Focus will be on the principles of family development, family empowerment skills, self-support for family workers, effective communication with families, and cultural competency.

**CDF 210B 3.0 units**

**Skills/Strat. for Family Workers Pt 2**

3.0 hours lecture

Prerequisite: CDF 210A

Grading: letter grade or pass/no pass

This course is part two of a two part series. The course is designed to prepare students and workers to assist families with the values, knowledge, and skills needed to empower families to achieve self-reliance. Part two focuses on strength-based assessment, resource development, service coordination, collaboration and networking, home visitations, team building, goal setting, and family conference facilitation.

**CDF 273AD 4.0 units**

**WE-Family Development**

1.0 hour lecture, 12.5 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to the occupational goal or career of interest to the student. This course is recommended for currently employed family service workers.

**CHILD AND ADULT  
DEVELOPMENT-LEARNING LAB  
(CDLL)**

**CDLL 51A 2.0 units**

**Fieldwork/Infant-Toddler Techniques**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of child development research and theory from birth to twenty-nine months through lectures and lab participation. It is designed for child development majors, early childhood education majors and parents. Proof of a negative TB test is required for participation and observation in the children's program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDLL 51B 2.0 units**

**Fieldwork/Infant-Toddler Techniques**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of child development research and theory from birth to twenty-nine months through lectures and lab participation. It is designed for child development majors, early childhood education majors and parents. Proof of a negative TB test is required for participation and observation in the children's program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDLL 51C 2.0 units**

**Fieldwork/Infant-Toddler Techniques**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of child development research and theory from birth to twenty-nine months through lectures and lab participation. It is designed for child development majors, early childhood education majors and parents. Proof of a negative TB test is required for participation and observation in the children's program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDLL 51D 2.0 units**

**Fieldwork/Infant-Toddler Techniques**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of child development research and theory from birth to twenty-nine months through lectures and lab participation. It is designed for child development majors, early childhood education majors and parents. Proof of a negative TB test is required for participation and observation in the children's program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDLL 52A 2.0 units**

**Fieldwork/Preschool Techniques**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of current concepts and research in early childhood education through lectures and lab participation. It is designed for child development majors, early childhood education majors and parents. Proof of a negative TB test is required for participation and observation in the children's program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDLL 52B 2.0 units**

**Fieldwork/Preschool Techniques**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of current concepts and research in early childhood education through lectures and lab participation. It is appropriate for child development majors, early childhood education majors and parents. It is designed to be a continuation of CDLL 52A. Proof of a negative TB test is required for participation and observation in the children's program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on

"Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDLL 52C 2.0 units**

**Fieldwork/Preschool Techniques**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of current concepts and research in early childhood education through lectures and lab participation. It is appropriate for child development majors, early childhood education majors and parents. It is designed to be a continuation of CDLL 52A and CDLL 52B. Proof of a negative TB test is required for participation and observation in the children's program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDLL 52D 2.0 units**

**Fieldwork/Preschool Techniques**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of current concepts and research in early childhood education through lectures and lab participation. It is appropriate for child development majors, early childhood education majors and parents. It is designed to be a continuation of CDLL 52C. Proof of a negative TB test is required for participation and observation in the children's program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDLL 603 0.0 unit**

**LBCC Child Development Centers Participation**

6.0 hours laboratory

Grading: LBCC Non-Graded Course

This is a non-credit lab experience for students participating in LBCC Child Development Center Demonstration Lab Schools, including the child care program, providing guided education and observation. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CHILD AND ADULT  
DEVELOPMENT-PARENT  
EDUCATION (CDPE)**

**CDPE 402 1.0 unit**

**ST Special Topics in Parent Education**

1.0 hour lecture

Grading: letter grade

This course will provide current theoretical and conceptual information relevant to parenting. Topics are based on pertinent themes to this program's line of study and may include, but are not limited to infant and toddler,

preschool school-age and adolescent development and care, family structure, behavior management, appropriate guidance techniques as well as age appropriate activities that will enhance parent child relationships. This is a “special topics” course. The course subject matter will vary by semester. Please refer to the schedule of classes for a particular semester’s topic. This course may be repeated for credit as topics change.

**CDPE 606 0.0 unit**

**Parent Education for Foster Parents**

3.0 hours lecture

Grading: LBCC Non-Graded Course

This is a non credit open entry course providing a variety workshop formats ranging from 3 to 30 hours in duration. Instruction focuses on the various parenting skills and knowledge needed to aid in the adaptation of children into foster and kinship care homes. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CHILD AND ADULT  
DEVELOPMENT-SCHOOL AGE  
(CDSA)**

**CDSA 62 3.0 units**

**Creative Express for School Age Children**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a study of the principles, methods and materials that encourage creative expression in school children. School age environments, activities and behavior management techniques will be discussed. Hands-on participation in creative activities will be featured.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDSA 63 3.0 units**

**The School Age Child**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade

This course is a study of the physical, social, emotional and cognitive development of the school age child, emphasizing the interaction of children and teachers in child care settings. Three hours of observation/participation at approved sites are required each week. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDSA 65 3.0 units**

**School Age Curriculum**

3.0 hours lecture

Grading: letter grade

This course is a survey of curriculum and activities appropriate for the school age child. Students who are interested in working with children in before and after-school care will practice developing, modifying, setting up and presenting age appropriate, school-age

activities. These activities will cover all areas of the curriculum.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDSA 75 3.0 units**

**School Age Child Care Practicum D5**

2.0 hours lecture, 3.0 hours laboratory

Prerequisite: CDECE 45 or CDECE 47 and CDSA 62, CDSA 63 and CDSA 65

Grading: letter grade

This is a hands-on course in which students are provided an opportunity to plan, prepare, present and evaluate curriculum activities offered to school-age children (6-12) in various public and private school-age child care settings. Thirty additional hours of program participation, proof of negative TB test and fingerprint clearance are required. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CHILD AND ADULT  
DEVELOPMENT-SPECIAL  
EDUCATION (CDESED)**

**CDESED 5 3.0 units**

**Community Resources/Special Education**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course studies community resources that identify, support, and enhance the lives of children and families with special needs. Agencies concerned with the health, education and welfare of children and families with special needs are studied in depth along with the influence of culture and family structures on student outcome.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDESED 67 3.0 units**

**The Exceptional Child**

3.0 hours lecture

Grading: letter grade or pass/no pass

This is a survey course in which students examine a broad spectrum of disabilities with a focus on how these disabilities affect children and their families. The course work emphasizes the educational, social, and emotional development of the exceptional child during the school years. Early intervention and transition to adulthood are covered briefly. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDESED 69 3.0 units**

**Special Education Practicum**

2.0 hours lecture, 3.0 hours laboratory

Prerequisite: CDESED 67, 5, 70 and CDECE 45 or 47

Grading: letter grade

Students will plan, prepare, execute and evaluate various experiences with disabled individuals in schools and agencies in the greater Long Beach area. As well, they will learn specific techniques of working with children,

adults, parents and staff to provide an appropriate experience for the disabled individual. There are 54 lab hours required for this course. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CDESD 70 3.0 units**

**Teaching Exceptional Students**

3.0 hours lecture

Grading: letter grade

This course is a systematic study of developmentally appropriate learning in the inclusive classroom focusing on teaching methods and materials used in the instruction of children with special needs. Development and interpretation of an Individualized Education Program (IEP) as well as specific areas of curriculum development are also addressed.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

***CITIZENSHIP (CIT)***

**CIT 601 0.0 unit**

**Citizenship**

3.0 hours lecture

Grading: LBCC Non-Graded Course

This course is a rapid review of the history of the United States, the Constitution and government of the United States, as well as state and local government. This course is designed for persons preparing for the United States Government naturalization examination.

***COMPUTER ACADEMY CISCO NETWORKING (CISCO)***

**CISCO 250 3.0 units**

**Communications Cabling Installation**

2.5 hours lecture, 1.5 hours laboratory

Grading: letter grade

This course introduces students to the basic skills and knowledge required for employment as a network wiring installer. The course includes introductions to cabling tools, installation practices, color codes, copper-based cable systems, cable testing, workplace safety, and the National Electrical Code (NEC) as it applies to network wiring.

**CISCO 251 3.0 units**

**Introduction to Networking**

2.5 hours lecture, 1.5 hours laboratory

Grading: letter grade

This is the first course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes introductions to networking devices, IP Addressing, routing, switching, media and design, topology, cabling, electricity, electronics and network management. The instruction is based on the Cisco Networking Academy curriculum.

**CISCO 252 3.0 units**

**Routing and Access Control**

2.5 hours lecture, 1.5 hours laboratory

Prerequisite: CISCO 251

Grading: letter grade

This is the second course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes OSI layers 1-7, local vs. wide area networks, TCP/IP, IP addressing, routing, router components and configuration of the Cisco IOS, routing protocols and access control lists. The instruction is based on the Cisco Networking Academy curriculum.

**CISCO 253 3.0 units**

**Cisco Networking III, LAN**

2.5 hours lecture, 1.5 hours laboratory

Prerequisite: CISCO 252

Grading: letter grade

This is the third course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes EIGRP and OSPF routing, LAN switching, VLAN and LAN design. The instruction is based on the Cisco Networking Academy curriculum.

**CISCO 254 3.0 units**

**WAN's and Remote Access**

2.5 hours lecture, 1.5 hours laboratory

Prerequisite: CISCO 253

Grading: letter grade

This is the fourth course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes IP address conservation, VLSM, wide area network design, configuration of PPP, ISDN and Frame relay protocols. The instruction is based on the Cisco Networking Academy curriculum.

***COMPUTER AND BUSINESS INFORMATION SYSTEMS (CBIS)***

**CBIS 3 3.5 units**

**Operating Systems: Software & Hardware**

3.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 6A

Grading: letter grade

This course covers the command-line operating systems and Windows operating systems maintenance skills required for A+ certification expected of computer technicians. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CBIS 6A 4.0 units**

**Intro to IT Concepts & Applications**

3.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: COMIS 1

Grading: letter grade

Formerly CBIS 6. This course is an Introduction to information systems and the common use of office applications. Word processing, spreadsheets, databases, presentation software and basic internet use will be

covered. Spreadsheet use for business will be emphasized. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CBIS 6B 3.0 units**

**Intermediate Business Applications**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: CBIS 6A

Grading: letter grade

This class was formerly CBIS 2. This is the second class in a three class series. Topics covered in this course include intermediate topics of word processor, spreadsheet, database, and presentation software, with an emphasis on help desk. This course includes an introduction to Visual Basic Application and also prepares the student for Certification Exams. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CBIS 6C 3.0 units**

**Advanced Business Application**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: CBIS 6B

Grading: letter grade

This is the third class in a three class series that teaches advanced topics of business word processor, spreadsheet, database, and presentation software. Topics covered include advanced office concepts, skills, VBA, integrated features, and help desk concepts. This course was formerly CBIS 40. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CBIS 7 3.5 units**

**Business Programming Logic and Design**

3.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 6A

Grading: letter grade

This course is an introduction to programming including syntax, structured design, debugging, variables, flowchart and simple UML design, validity checking, extracting and manipulating data from arrays, and sorting. This class prepares the student for additional programming classes. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CBIS 8B 4.0 units**

**Visual Basic Programming**

3.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: CBIS 6

Grading: letter grade

Fundamental programming concepts emphasizing problem solving and structured techniques. Includes creating sequential disk files, report formatting,

interactive programming, array search, menus, sorting and subroutines. Proper programming, documentation and structure are emphasized. Visual BASIC language using IBM PCs.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CBIS 36 3.0 units**

**Systems Analysis and Design**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: CBIS 6A and CBIS 38

Grading: letter grade

This course covers the broad concepts and methods of systems analysis and design while emphasizing the latest object-oriented techniques. Topics include development processing models, conceptual and physical design, system implementation and maintenance techniques, project management, collaborative communication skills, and the responsibilities of systems analysts. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CBIS 38 4.0 units**

**Database Concepts**

4.0 hours lecture

Recommended Preparation: CBIS 6

Grading: letter grade

This course covers concepts and technologies of database systems. Topics include data modeling, design, and the implementation of relational databases; Structured Query Language-SQL; concurrency control; distributed database systems; data warehousing; Web enabled database technologies; and the functions of database administration.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CBIS 41 3.0 units**

**Networking Fundamentals**

3.0 hours lecture, 1.0 hour laboratory

Grading: letter grade

In this class, the student will learn to install, configure, upgrade and troubleshoot a computer network. There will be discussions regarding local area networks, wide area networks, communications protocols, network topologies, transmission media, security and assessment of career opportunities in networking. All of the objectives of the CompTIA Network+ certification will be addressed. Practice exercises will help the student to prepare for the Comp TIA Network+ certification exam. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CBIS 71AD 2.0 units**

**Work Experience-Computer Info Systems**

1.0 hour lecture, 4.1 hours laboratory

Prerequisite: Completion of any CBIS course

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CBIS 72AD 3.0 units**

**Work Experience-Computer Info Systems**

1.0 hour lecture, 8.3 hours laboratory

Prerequisite: Completion of any CBIS course

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CBIS 73AD 4.0 units**

**Work Experience-Computer Info Systems**

1.0 hour lecture, 12.5 hours laboratory

Prerequisite: Completion of any CBIS course

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CBIS 200 3.5 units**

**Computer Technician Hardware Basics**

3.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 6A

Grading: letter grade or pass/no pass

This course emphasizes IBM-compatible personal computers and the latest common components and hardware features and will cover PC microprocessors, motherboards, buses, input/output controllers and memory, and other components. Class lectures will be supplemented with "hands on" classroom labs using diagnostic software and tools. This course will prepare students for the hardware portion of the A+ exam. (See CBIS 3 software portion of A+)

**CBIS 206A**

**1.0 unit**

**Internet Basics**

1.0 hour lecture, 0.5 hour laboratory

Recommended Preparation: CBIS 6

Grading: letter grade or pass/no pass

This course introduces the concepts and terminology of the Internet, how to access and connect to the Web, and how to view sites and search for information on the Web using browsers and search engines. Also included are tutorials on how to use e-mail, FTP, newsgroups, and messages boards, mailing list, chat rooms, instant messaging and Internet telephony. Hands-on step-by-step tutorials and exercises will be used to teach the basic skills needed to be productive on the Internet when searching virtual library for reference material or exploring nearby planets or even e-mailing a government official about a concerned issue. In addition, students will plan, design and create their own web site using HTML coding.

**CBIS 206C**

**2.5 units**

**World Wide Web Database Programming**

2.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 220

Grading: letter grade or pass/no pass

An advanced web page construction course focusing on developing web sites to use a database coded in one of the popular server language such as (Perl, PHP, or Cold Fusion) on either a Apache or a Microsoft IIS servers.

**CBIS 207AD**

**2.0 units**

**Web Construction I**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: CBIS 206A

Grading: letter grade or pass/no pass

Topics covered in this course focus on how to design, create, format and publish basic web pages using different popular industry approaches. The course covers basic skills, such as creating a Web page, using property inspector, incorporating CSS styles, working with HTML tags, adding text hyperlinks, working with graphics/rollovers/tables, creating a navigation bar and using frames. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CBIS 207E**

**2.5 units**

**Dynamic HTML Web Construction**

2.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 220

Grading: letter grade or pass/no pass

This course is a web page construction course focusing on emerging HTML standards, XML, Javascript and other scripting languages. It is designed for students who already have a basic knowledge of web construction using a high level development tool such as FrontPage or Dreamweaver.

**CBIS 208B**

**4.0 units**

**Advanced Visual Basic Programming**

3.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: CBIS 8B

Grading: letter grade or pass/no pass

This is an advanced Visual Basic programming class covering such topics as advanced methods for object, database, client/server, and internet programming. The main focus of the class will be on database design and implementation tasks using VB, basic database theory, designing and building VB programs to access

Microsoft Access and SQL servers, techniques for designing and enhancing user interface using class modules and Active X components, and developing applications for the internet.

**CBIS 208C 3.0 units**

**Visual Basic for Application Programming**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This is an advanced Visual Basic programming class on the writing of Visual Basic for Applications (VBA) programs for the Microsoft Office Suite. The procedures and programs created in the class will demonstrate how to customize and enhance the applications included in MS Office. Topics covered will include how to write program procedures using the sequence, selection, and repetition programming structures as well as how to create and implement dialog boxes, lists, and option/check box controls in Office Word, Excel, Access, and Outlook.

**CBIS 211AD 2.0 units**

**Web Construction II**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: CBIS 207AD

Grading: letter grade or pass/no pass

In this course, students will learn advanced techniques for designing, creating, formatting and publishing web pages using different popular industry approaches. Advanced skills topics will be taught, such as creating dynamic pages, adding rich media to a web site, creating reusable assets and forms, creating animated graphics and adding database functionality. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CBIS 212 1.5 units**

**Wireless Communications**

1.5 hours lecture, 0.5 hour laboratory

Recommended Preparation: CBIS 41

Grading: letter grade or pass/no pass

In this class the student will learn how to install, use, and manage popular wireless technologies. These technologies include infrared, Bluetooth, and wireless local area networks. In the lab, the student will actually install and configure a wireless local area network. The students will learn how to set up a wireless network in their home and secure it from unauthorized outside access.

**CBIS 216A 3.5 units**

**Introduction to C# Programming**

3.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 7

Grading: letter grade or pass/no pass

This course is an introductory presentation of the C# language, including data structures and examples. Emphasis is placed on programming business applications including design, development, and documentation.

**CBIS 220 3.0 units**

**i-Net+ Internet Technologies**

3.0 hours lecture, 1.0 hour laboratory

Recommended Preparation: CBIS 6A

Grading: letter grade or pass/no pass

This course teaches the baseline technical knowledge needed to enter an Internet industry oriented career. After course completion, the student will be prepared to take the industry standard i-Net+ Certification test. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CBIS 223 3.0 units**

**Unix/Linux Fundamentals**

3.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 6A

Grading: letter grade or pass/no pass

This course prepares students to work with Linux as an application programmer, a computer operator, or a system administrator. The topics include an overview of basic operating systems concepts, a history of Unix and its influence on modern operating systems, basic internal structure, details of Unix/Linux file system structures, pipes, filters and redirection, scripts, images and processes, shells, time-slicing and interrupts, memory management, and Unix/Linux internals.

**CBIS 225 2.5 units**

**Microsoft Windows Client OS**

2.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: Understanding of Basic Computer Networking, including TCP/IP or CBIS 41.

Grading: letter grade or pass/no pass

In this class, students will install, configure and administer Windows Client O.S. in a networking environment. The class will prepare the student to take the corresponding MCSE Certification Exam.

**CBIS 226 2.5 units**

**Microsoft Windows Server OS**

2.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 225

Grading: letter grade or pass/no pass

In this class, students will install, configure and administer Windows Server O.S. in a networking environment. The class will prepare the student to take the corresponding MCSE Certification Exam.

**CBIS 227 2.5 units**

**Microsoft Windows Networking**

2.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 226

Grading: letter grade or pass/no pass

In this class, students will install, configure and administer Windows Server Operating System networking services and protocols. The class will prepare the student to take the corresponding MCSE Certification Exam.

**CBIS 228 2.5 units**

**Microsoft Windows Directory Services**

2.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 226 and CBIS 227

Grading: letter grade or pass/no pass

In this class, students will install, configure and administer Windows Server Directory Services. The class will prepare the student to take the corresponding MCSE Certification Exam.

**CBIS 229 2.5 units**

**Microsoft ISA Server**  
 2.0 hours lecture, 2.0 hours laboratory  
 Recommended Preparation: CBIS 225, CBIS 226, CBIS 227 and CBIS 228  
 Grading: letter grade or pass/no pass  
 This course is designed to develop skills necessary to install, configure and administer Microsoft Windows Internet Security and Acceleration (ISA) Server. This course also covers topics relevant to the MCSE Certification Exam for ISA Server and prepares the students to take the exam.

**CBIS 235A 3.5 units**

**LINUX Server Administration**  
 3.0 hours lecture, 2.0 hours laboratory  
 Recommended Preparation: CBIS 223  
 Grading: letter grade or pass/no pass  
 This course is an in depth study of the Linux operating system. The focus is on Linux installation and administration. The course will also examine the theoretical concepts common to all Linux system that have increased its popularity. The course will also take the form of a practical hands-on approach to Linux to prepare students for the SAIR/GNU or LPI certifications.

**CBIS 235B 3.5 units**

**LINUX Networking and Security**  
 3.0 hours lecture, 2.0 hours laboratory  
 Recommended Preparation: CBIS 223 or CBIS 235A  
 Grading: letter grade or pass/no pass  
 This is an advanced Linux operating system class. The focus is on Linux networking and security. The course covers networking technologies and protocols, network configuration and the use of command-line and graphical utilities. Network security issues such as firewalls, VPNs, and utilities such as nmap, ethereal, and the SAINT profiling tool will be presented.

**CBIS 242AD 3.0 units**

**Introduction to Oracle: SQL**  
 2.0 hours lecture, 3.0 hours laboratory  
 Recommended Preparation: CBIS 38 or work experience with databases.  
 Grading: letter grade or pass/no pass  
 This course will provide students with an introduction to the relational database programming language, Structured Query Language (SQL) using Oracle database administration system. Topics will include an introduction to relational database design and database administration and hands-on programming skills of using SQL Data Manipulation Language and Data Definition Language. The course is also designed to help students to pass Oracle Certificate Test, Introduction to Oracle: SQL.

**CBIS 243AD 3.0 units**

**Program with Oracle PL/SQL**  
 2.0 hours lecture, 3.0 hours laboratory  
 Recommended Preparation: CBIS 242AD  
 Grading: letter grade or pass/no pass  
 This course covers how to write PL/SQL procedures, functions and packages in both the SQL\*Plus and iSQL\*Plus environments. Gain knowledge about the creation of PL/SQL program units and database triggers, as well as various Oracle-supplied packages. The course also helps students prepare for the Oracle PL/SQL

Developer Associate certification exam. Upon completion of this course, students are ready to take Oracle Developer Professional level course: "Build Internet Applications" and other advanced courses.

**CBIS 246AD 3.0 units**

**Oracle DBA Fundamentals**  
 2.0 hours lecture, 3.0 hours laboratory  
 Recommended Preparation: CBIS 242AD  
 Grading: letter grade or pass/no pass  
 This course is for students who need Oracle DBA (Database Administration) training or preparation for the Oracle DBA track certification. Students will gain a conceptual understanding of Oracle database architecture and how its components work and interact with one another. Students will also learn how to create an operational database and properly manage the various structures in an effective and efficient manner. The lecture topics are reinforced with structured hands-on lab practices.

**CBIS 251 3.5 units**

**Introduction to ASP.NET**  
 3.0 hours lecture, 2.0 hours laboratory  
 Recommended Preparation: CBIS 38 or comparable work experience/knowledge of HTML and relational database applications.  
 Grading: letter grade or pass/no pass  
 This is a course in creating dynamic web pages and web-enabled database applications by using the Microsoft ASP.NET object model. Topics include the ASP.NET object programming model; the VS.NET user interface; server controls; ASP.NET rich controls; using VB.NET within an ASP.NET page; configuring an ASP.NET application; troubleshooting and deploying an ASP.NET application; managing data sources, data-driven ASP.NET applications, data-driven web applications; and XML web services.

**CBIS 260 1.0 unit**

**Help Desk Concepts**  
 1.5 hours lecture  
 Prerequisite: CBIS 6A  
 Recommended Preparation: CBIS 200  
 Grading: letter grade or pass/no pass  
 This course provides an introduction to help desk concepts and procedures, which include help desk operations, technology and information components, as well as help desk setup, customer support and resources. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CBIS 270 1.0 unit**

**Introduction to Information Security**  
 1.0 hour lecture  
 Grading: letter grade or pass/no pass  
 This course provides students and professionals with the necessary managerial, technical, and legal background to support investment decisions in security technology. The course covers security from the perspective of hackers (i.e., technology issues and defenses) and lawyers (i.e., legal issues and defenses). The content is designed to help users quickly become current on what has become a fundamental business issue. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.



**CBIS 271 3.0 units**

**Network Security Fundamentals**  
 3.0 hours lecture, 1.0 hour laboratory  
 Recommended Preparation: CBIS 41, CBIS 220 and CBIS 270  
 Grading: letter grade or pass/no pass  
 Network Security Fundamentals provides a comprehensive overview of network security and prepares you to take the CompTIA Security + certification exam. This course covers general security concepts, communication network security, infrastructure security, cryptography basics, operational/organizational security, and computer forensics.

**CBIS 420 3.5 units**

**PHP & MySQL for the Web**  
 3.0 hours lecture, 2.0 hours laboratory  
 Recommended Preparation: CBIS 38 and a previous programming language class.  
 Grading: letter grade or pass/no pass  
 This course covers PHP & MySQL, one of the fastest growing technology combinations for developing interactive Web sites. It is designed at a level for personal web development projects, as well as small to medium business Web development needs.

**CBIS 430 3.5 units**

**Ruby on Rails Web Development**  
 3.0 hours lecture, 2.0 hours laboratory  
 Recommended Preparation: CBIS 38, CBIS 220 and a previous programming language class such as CBIS 14.  
 Grading: letter grade  
 This course is an introduction to using Ruby on Rails (or RoR) a dynamic web development framework. Students will be taught programming in Ruby language and MySQL management. Installation, development, testing, and the structure of the Ruby on Rails framework will be covered. This course is intended for web developers and others interested in getting a quick start in this technology.

**CBIS 436A 3.0 units**

**Intro to Project Management for IT**  
 3.0 hours lecture, 1.0 hour laboratory  
 Recommended Preparation: CBIS 6A  
 Grading: letter grade or pass/no pass  
 This class is an introduction to IT project management. Popular project management software will be introduced. In addition, the class will focus on the methods and techniques for managing technology projects as well as preparing students for the CompTIA's IT Project+ certification.

**CBIS 492 2.5 units**

**ST Interpretive Programming Languages**  
 2.0 hours lecture, 1.5 hours laboratory  
 Recommended Preparation: Basic knowledge of SQL or CBIS 38; and Basic knowledge of HTML or CBIS 220; and programming knowledge or CBIS 8B, 11, or 14  
 Grading: letter grade or pass/no pass  
 This course offers a study of popular interpretive programming languages. The course explores programming environments and tools as well as major and recently developed features of each specific language. Hands-on programming skills in application development are emphasized. Language examples include, but are not limited to Javascript, PHP, Perl, ASP.NET, CFML, and Python. This course may be repeated for credit as topics vary.

**CBIS 633 0.0 unit**

**Adaptive Computer Technology**  
 4.0 hours laboratory  
 Grading: LBCC Non-Graded Course  
 This course provides assessment, evaluation, training and instruction in the use of adaptive computer technology to students with disabilities. Access and training in adaptive computer technology will allow full participation in courses or career paths in which computers play an integral part. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**COMPUTER AND INFORMATION SCIENCE (COMIS)**

**COMIS 1 1.0 unit**

**Computer Information Competency**  
 0.5 hour lecture, 1.5 hours laboratory  
 Grading: pass/no pass  
 The course is designed for students to develop current computer information competency. It covers basic use of hardware, Internet knowledge and skills, word processing, spreadsheet, database queries, digital data presentations, and communications applications. Fulfills the Information Competency graduation requirement. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**COMPUTER APPLICATIONS AND OFFICE TECHNOLOGY (CAOTC)**

**CAOTC 31A 2.0 units**

**Microsoft Windows Operating System**  
 1.0 hour lecture, 3.0 hours laboratory  
 Grading: letter grade or pass/no pass  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CAOTC 34 3.0 units**

**Introduction to Computers & Applications**  
 2.0 hours lecture, 3.0 hours laboratory  
 Recommended Preparation: CAOTC 211  
 Grading: letter grade or pass/no pass  
 This course is an introduction to information systems and computer hardware basics such as the CPU, memory, storage, input and output devices, networking, and the internet. Also, students will have hands-on experience with Microsoft Office suite for application integration. This course will satisfy the graduation requirement for Computer Information Competency. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. This allows for specific lecture and/or lab instructional activities to be delivered through more flexible scheduling of days and times but for a specified number of hours and in accordance with the requirements and specific instructional activities of the course outline of record.

This will be expected of all enrolled students. Please see the schedule of classes for the number of TBA hours to be completed for this course.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CAOTC 35 3.0 units**

**Microsoft Office — Specialist**

2.5 hours lecture, 2.5 hours laboratory

Recommended Preparation: CAOTC 34

Grading: letter grade or pass/no pass

Microsoft Office-Specialist is a beginning hands-on course that teaches students to create, edit, format, and integrate a wide range of business documents. Students will use Microsoft Word, Excel, PowerPoint, and Access. Computer hardware basics and the use of the internet for business and research purposes will also be covered. This course will satisfy the graduation requirement for Computer Information Competency. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CAOTC 39A 3.0 units**

**Microsoft Word for Windows**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: Type 45 wpm with five or fewer errors for five minutes.

Grading: letter grade or pass/no pass

This course provides business document computer training using Microsoft Word for Windows. Topics covered in this course include creating, saving, printing, editing, and formatting text. Safeguarding files through routine maintenance, altering text appearance by changing fonts, and using tools such as Speller and Thesaurus are included in the course. Students will get training using templates and wizards, newspaper column formatting, and creating charts and diagrams. Students will also apply formatting principles, WordArt, pictures, and clipart which add visual appeal to documents, WordArt, pictures, and clipart, plus insert comments and track changes to documents. Footnotes and endnotes, formatting research papers using MLA guidelines, merging documents, sorting text, selecting records, and customizing toolbars and menus will be covered. Word expert shortcuts will be employed to promote word processing productivity.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CAOTC 41E 3.0 units**

**Microsoft Excel for Windows**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: CAOTC 34 or CAOTC 211

Grading: letter grade or pass/no pass

This course covers beginning, intermediate, and advanced spreadsheet concepts using Microsoft Excel and is for anyone working (or wanting to work) in a setting where numeric data is collected, maintained, analyzed, manipulated, and presented. Excel has many applications in business, education, and government as well as personal and home use. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on

“Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CAOTC 44D 2.0 units**

**Microsoft PowerPoint for Windows**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: CAOTC 31A

Grading: letter grade or pass/no pass

This class provides a thorough exploration of presentation graphics software. Through hands-on practice, students learn to combine text and graphic images to develop computerized slide shows, transparencies, charts, and printed materials for group presentations. Students also create presentations with animations and audio, publish presentations for web and CD, use workgroup collaboration features, and integrate with other programs. In the research component students create presentations based on information gathered from electronic sources. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CAOTC 45 2.0 units**

**Internet for Office and Personal Use**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a comprehensive overview of Internet and email using Windows Internet Explorer, free Web-based email, and Microsoft Word. Through hands-on practice, students become familiar with sending/receiving/managing Web-based email, creating and sending attachments, browsing and searching the Internet, making business and personal travel arrangements, messaging via text/voice/video, scanning pictures, and designing Web pages using free Web-based software. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CAOTC 47A 3.0 units**

**Microsoft Access for Windows**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: CAOTT 200

Grading: letter grade or pass/no pass

This class provides an introduction to Microsoft Access, a computerized relational database management system. Through hands-on practice, students learn to create and modify tables, queries, reports, forms, data access pages, macros, and modules. Students will also learn to share information by integrating Access with data and other applications. This course will satisfy the graduation requirement for Computer Information Competency. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CAOTC 211 1.0 unit**

**Discovering Computers**

1.0 hour lecture, 1.0 hour laboratory

Grading: letter grade

This course provides an overview of the free, open-source software OpenOffice.org® that includes creating documents, spreadsheets, presentations, and databases. Students learn valuable computer skills for practical tasks at work, home, and school. This course will satisfy the graduation requirement for Computer Information Competency. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CAOTC 215A 2.0 units**

**Microsoft Outlook for Windows**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: CAOTT 200

Grading: letter grade or pass/no pass

This course provides comprehensive instruction in desktop management using Microsoft Outlook. Topics including how to send and receive e-mail, manage contacts, plan and track tasks, schedule the calendar, and integrate Outlook with other applications and the internet. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CAOTC 235 3.0 units**

**Microsoft Office- Expert**

2.5 hours lecture, 2.5 hours laboratory

Recommended Preparation: CAOTC 35

Grading: letter grade

Office -Expert is an advanced hands-on course. Students will process a wide range of complex assignments requiring advanced formatting and functionality. Students will use Microsoft word, Excel, Access, and PowerPoint. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CAOTC 250A 3.0 units**

**Data Entry — Level 1**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: CAOTT 200

Grading: letter grade or pass/no pass

Introduction to data entry prepares students for careers requiring the use of a computer to enter, compile, and interpret information. Keying skills are developed utilizing multiple computer applications with a speed goal of 8,000 keystrokes/hour with 98% accuracy and the terminal goal of successfully entering, validating, manipulating, and analyzing data. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CAOTC 250B 3.0 units**

**Data Entry — Level 2**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: CAOTC 250A

Grading: letter grade or pass/no pass

This course is a continuation of CAOTC 250A. Through hands-on practice, the student will continue to develop speed and accuracy skills for data entry. The opportunity to practice the skills in a simulated workplace situation

will be provided as well as techniques for finding and avoiding errors. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**COMPUTER OFFICE  
TECHNOLOGIES (CAOTO)**

**CAOTO 15 3.0 units**

**Business Communications**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course covers the principles of collecting, organizing, analyzing, and presenting business information. Written and oral communication involving problem solving in business is emphasized. Not open for credit to students who have completed GBUS 15 or MGMT 15. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CAOTO 214 1.0 unit**

**Filing**

1.0 hour lecture

Grading: letter grade or pass/no pass

Students in this course examine the Association of Records Managers and Administrators (ARMA International) filing standards that are widely used in business to create and maintain files. Students organize, arrange, cross-reference, and retrieve records. Alphabetic, subject, numeric, and geographic filing systems are included.

**CAOTO 216 1.0 unit**

**Proofreading Skills**

1.0 hour lecture

Grading: letter grade or pass/no pass

Students develop skills in detecting and correcting errors in office documents through the study of basic English and proofreading principles. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CAOTO 222 3.0 units**

**Job Search Skills**

3.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CAOTT 200B or higher

Grading: letter grade or pass/no pass

This course is designed to help students develop occupational competence for obtaining desired positions in the workforce. This includes career planning skills, resume and cover letter preparation, interview and interview follow-up skills, successful employment test completion, and the relationship of life-long learning to career success. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CAOTO 260 1.0 unit**

**Business Telephone Procedures**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course is designed for the person who needs instruction and practice in developing professional communication skills using the telephone and state-of-the-art telephone-related equipment in the business office, in order to maximize their use as business communication tools. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CAOTO 261 3.0 units**

**Business English**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course develops the foundation skills that competent workers need to be competitive in the workplace. These skills include a thorough training in the mechanics of English: spelling, grammar, punctuation, sentence structure, and word usage. Emphasis will also be placed on developing a business vocabulary. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CAOTO 262 1.0 unit**

**Soft Skills for the Workplace**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course covers the fundamentals of human relations in various business environments and develops a basic proficiency using these principles in order to enhance success in the workplace. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CAOTO 263 3.0 units**

**Customer Service**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course covers the essentials of customer service in today's economy including its importance, customer needs and wants, support, and interactions/relationships. Customer service positions are on the rise and may be found in a variety of areas. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**COMPUTER PROFICIENCY FOR  
ACADEMIC SUCCESS (CPAS)**

**CPAS 1 1.0 unit**

**Using the Mac as a Tool for Learning**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course provides an introduction to the computer and software products helpful in performing classroom tasks. Students are given the opportunity to develop computer skills that will enhance their ability to effectively complete course work. This course satisfies the information competency requirement. This course

may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CPAS 10 1.0 unit**

**Advanced Computer Skills for Learning**

0.5 hour lecture, 1.5 hours laboratory

Recommended Preparation: Basic computer experience in word processing, spreadsheets and graphics or CPAS 1.

Grading: letter grade or pass/no pass

This is an advanced course which explores the academic application of popular software packages. The student will learn to use the computer effectively to prepare documents for any class using word processing, desktop publishing, spreadsheets, graphics manipulation, web presentations, and Internet resources. This course satisfies the information competency graduation requirement. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CPAS 805 1.0 unit**

**Distance Learning- Success Strategies**

0.5 hour lecture, 1.5 hours laboratory

Grading: pass/no pass

This course introduces students to the skills necessary for success in any distance education course. Topics include skills for learning with technology which are necessary for success in distance education, characteristics of successful distance education students, and introduction to the Internet, creating and using an e-mail account and other methods of online communications, basic aspects of word processing, and hardware/software basics. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**COMPUTER SCIENCE (CS)**

**CS 11 3.5 units**

**Computer Programming/C++ I**

3.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 6A and MATH 110 or MATH 110B or first year of high school algebra.

Grading: letter grade

This is an introductory course in the C++ programming language, a problem solving technique used in modern software technology. The features of C++ that support the development of small and large systems are covered, thus providing a method for prototyping the commercial software development in business and industry. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CS 12 3.5 units**

**Computer Programming/C++ II**

3.0 hours lecture, 2.0 hours laboratory

Prerequisite: CS 11

Grading: letter grade

A second course in C++ includes: further explanation of C++ areas (data types, input/output, data structures, pointers and accessing files) and object-oriented programming (object hierarchy, operator overloading and streams). This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CS 13 3.5 units**

**C++ Data Structures and Algorithms**

3.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CS 12 and MATH 50 or high school precalculus.

Grading: letter grade

This course continues the introduction to Object Oriented programming with C++ begun in CS 11 & 12, with an emphasis on algorithms, data structures and software engineering.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CS 21 3.5 units**

**Introduction to Computer Science I**

3.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: CBIS 7 and MATH 40

Grading: letter grade

This is the first of three introductory courses in computer science. This course introduces the basics of computer software design, programming, and related underlying concepts required in java programming.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CS 22 3.5 units**

**Introduction to Computer Science II**

3.0 hours lecture, 2.0 hours laboratory

Prerequisite: CS 21

Grading: letter grade

This is the second of three introductory courses in computer science. This course introduces the classic data structures (primitive, arrays, queues, stacks, tables, hash, maps, and trees) and looks at implementation of abstract data types. This course also covers the topics of time and space efficiency, recursion, object oriented design, software engineering introduction, and functional programming and models of computation.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CS 23 3.5 units**

**Fundamental Data Structures**

3.0 hours lecture, 2.0 hours laboratory

Prerequisite: CS 22

Recommended Preparation: MATH 55A

Grading: letter grade

This is the third of three introductory courses in computer science. This course concentrates on implementation and mathematical analysis of data structures and algorithms. This course also covers

storage allocation and memory management techniques in Java.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CS 51 3.5 units**

**Introduction to Computer Architecture**

3.0 hours lecture, 2.0 hours laboratory

Prerequisite: CS 21 and MATH 55A

Grading: letter grade

This course covers the principles and practice of computer architecture, both hardware and software, instruction sets and addressing modes, virtual memory, operating systems, and operation and interconnection of hardware elements. Laboratory work in this class will cover using low-level programming languages.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CS 52 3.5 units**

**Introduction to Software Engineering**

3.0 hours lecture, 2.0 hours laboratory

Prerequisite: CS 23

Grading: letter grade

This course covers an introduction to the concepts, methods, and current practice of software engineering; the study of large-scale software production; software life cycle models as an organizing structure; and the principles and techniques appropriate for each stage of production. Laboratory work in this class will involve a project illustrating these elements.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**COMPUTER/TYPING KEYBOARD  
(CAOTT)**

**CAOTT 200 3.0 units**

**Beginning Typing/Keyboarding**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

Students in this course develop computer typing skills for business and personal use with emphasis on proper technique, speed, and accuracy. Students create correspondence, business reports, academic reports, tables, resumes, and other employment documents. The course is typically offered as semester-length with instructor lectures. This course will satisfy the graduation requirement for Computer Information Competency. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**CAOTT 202 3.0 units**

**Advanced Typing/Keyboarding**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: CAOTT 200 or type 35 wpm.

Grading: letter grade or pass/no pass

This course continues to develop computer typing skills for business and personal use. The course is designed to give the student the opportunity to refine typing skills. Through diagnostic and skill building exercises the student learns layout and formatting with the goal of applying these skills to real-life personal and integrated office document processing. This course may be

scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CAOTT 209AB 1.0 unit**

**Speed/Accuracy Bldg for Typists**

1.0 hour lecture, 1.0 hour laboratory  
Recommended Preparation: CAOTT 200 or CAOTT 233 or type 25 wpm.

Grading: letter grade or pass/no pass  
This intermediate-level course helps to increase computer keyboarding speed and accuracy. Students receive individual analysis, tips on improving their technique, and guided practice. This class usually is scheduled as self-paced, open-entry/open-exit. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CAOTT 233 1.0 unit**

**Computer Keyboarding**

1.0 hour lecture, 1.0 hour laboratory  
Grading: letter grade or pass/no pass

This course is designed for the person who desires to develop touch control of the computer keyboard and numeric keypad for business or personal use. Emphasis is placed on proper typing and inputting techniques and building basic speed and accuracy. The course is typically offered in a self-paced, open-entry/open-exit classroom. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**COUNSELING/GUIDANCE (COUNS)**

**COUNS 1 1.0 unit**

**Orientation for College Success**

1.0 hour lecture, 0.2 hour supplemental learning  
Grading: letter grade or pass/no pass

This course is recommended for all students and designed to orient them to the college environment and educational opportunities in a holistic manner. The course contains an introduction to the principles of student development theory, student conduct, academic procedures, policies, goal setting, educational planning, college and student support services. Students will learn the various academic opportunities of higher education in California, pursue academic major explorations, and develop a tentative educational plan to achieve personal and academic goals. Students are required to complete 3 hours of supplemental learning activities through a Success Center. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**COUNS 2 3.0 units**

**Making A Difference With Mentoring**

3.0 hours lecture  
Grading: letter grade or pass/no pass  
This course is designed for students who are interested in learning the techniques of mentoring first year students. Theories of the first year experience, student development, and mentoring will be explored. Students

will discover how to promote the academic development and socialization of first year students, using a variety of techniques learned through lecture and activities. Campus and community resources will be discussed and explored.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**COUNS 7 3.0 units**

**College and Professional Success**

3.0 hours lecture  
Grading: letter grade

Students will compare and analyze student development theories for the purpose of defining internal and external obstacles to career and academic success. Throughout the course, students will practice, apply and evaluate integrative exercises related to academic achievement, self-exploration, career development and professional growth and development.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**COUNS 48 1.0 unit**

**Career Exploration**

1.0 hour lecture, 0.5 hour laboratory  
Grading: letter grade or pass/no pass

This course is designed for students who are undecided about their career and/or educational goals. It provides an introduction to a career decision making model including personal assessment, self-understanding, career and labor market research, integration of information and goal setting. The course emphasizes one’s self-description as it impacts career choices.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**COUNS 49 2.0 units**

**College Study Techniques**

2.0 hours lecture  
Grading: letter grade or pass/no pass

This course is designed to teach students the important strategies for academic success and how to be confident college students. Course content will cover specific techniques and methods on effective time management, note taking, critical thinking skills, life skills, textbook reading and test taking skills. Students will identify their own individual learning styles through self assessment and presented learning theories. Topics will be presented as a practical and applicable approach to specific strategies for gaining academic competency and achieving self confidence for academic success.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**COUNS 49A 1.0 unit**

**College Study Techniques**

1.0 hour lecture  
Grading: letter grade or pass/no pass

This is an introductory course designed to teach students important strategies for academic success. Course content will cover specific techniques such as effective time management plan, note taking skills, textbook reading and test taking skills. Students will identify their own learning styles and important factors to college success through self assessment and interpretation.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**COUNS 50 3.0 units**

**Career Planning: A Life-Long Process**

3.0 hours lecture  
Grading: pass/no pass

This course presents a reflective model of the career planning process that integrates theory and practice applicable in a variety of situations over an individual's life span. Through the study of various career planning and decision-making approaches, the course is designed to explore the importance of how psycho-social, physical and affective factors impact their own cognitive processes. Using self-evaluation instruments and self-discovery processes, students develop life-long learning skills which help them focus on pathways for academic and career satisfaction.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**COUNS 800 1.0 unit**

**Employment Skills and Self Concept**

1.0 hour lecture  
Grading: pass/no pass

This is an introductory course designed to assist students in understanding personal qualities in relationship to employment skills required to succeed in the world of work. The goal is for students to enhance their potential competencies in the workplace necessary for finding employment and keeping it. Course topics include self assessment on strengths and weaknesses, recognizing strengths and self worth, developing job search skills, and developing a career or employment search portfolio.

**CREATIVE ARTS (CART)**

**CART 41 3.0 units**

**The Arts and Modern Man**

3.0 hours lecture  
Grading: letter grade or pass/no pass

This course serves as a humanities requirement and is an introduction to and exploration of the creative arts including art, film, music and the theatre arts for the general student. Each student is required to view/attend an exhibit/live performance related to the major areas of concentration in this course (art, music & theatre).

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CULINARY ARTS (CULAR)**

**CULAR 20AD 3.0 units**

**App. Food Serv Sanit in Hotel/Rstr Mgmt**

3.0 hours lecture  
Grading: letter grade

This course describes the significance of sanitation in food service and provides the practical knowledge needed to implement a sanitation program in any kitchen. It stresses the importance of the food poisoning problem of today and shows how important sanitation is from an economic, legal, and moral point of view. This course is formerly known as CULAR 20.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**CULAR 200AD 1.0 unit**

**Introduction to Chocolate**

0.5 hour lecture, 1.5 hours laboratory  
Grading: letter grade or pass/no pass

This course introduces the student to the principles involved in tempering chocolate, processing and storage of chocolate, molding of hollow forms, and pouring of flat surfaces.

**CULAR 204 5.0 units**

**Introduction to Baking**

2.0 hours lecture, 9.0 hours laboratory

Prerequisite: CULAR 20AD

Corequisite: CULAR 20AD

Grading: letter grade

This course teaches basic preparatory skills for baking. It includes use of tools, equipment, materials, basic characteristics of ingredients, fundamentals and principles of baking.

**CULAR 205 5.0 units**

**Baking and Pastry I**

2.0 hours lecture, 9.0 hours laboratory

Prerequisite: CULAR 20AD and CULAR 204

Corequisite: CULAR 20AD

Grading: letter grade

This course provides a study of pastry and cake making. It covers the techniques and methods for the preparation of different cakes, sponges, mousses, cream fillings and icings, tarts, as well as French pastries, classical cakes, and an introduction to candy making.

**CULAR 206 5.0 units**

**Baking and Pastry II**

2.0 hours lecture, 9.0 hours laboratory

Prerequisite: CULAR 20AD and CULAR 204

Corequisite: CULAR 20AD

Grading: letter grade

This course provides a study of pastry, advance cake making, sorbet and ice cream, show pieces, and plated desserts. It covers the techniques and methods for chocolate molding, chocolate modeling, as well as pulled, blown, and poured sugar, nougatine, and pastillage.

**CULAR 207 5.0 units**

**Commercial Cake Decorating**

2.0 hours lecture, 9.0 hours laboratory

Prerequisite-CULAR 20AD and CULAR 204

Grading: letter grade

This course teaches advanced skills of Cake Making and Decorating, including preparation of Sponge, Génoise, Fondants, Icing, Fillings, and Pastillage. Design and arrangements, tube writing and lettering, icing preparation and coloring, cake borders, and basic texture patterns are covered.

**CULAR 213A 11.5 units**

**Food Preparation 1**

5.0 hours lecture, 20.0 hour laboratory, 0.3 hour supplemental learning

Prerequisite: CULAR 20AD

Corequisite: CULAR 20AD

Grading: letter grade

This course is an introduction to the culinary arts profession. It includes instruction in culinary professionalism, food & kitchen safety, weights, measures, equipment identification, salads & dressings, sandwiches, and cold & hot appetizers. In addition, students will be required to attend 5 hours of culinary

math instruction in the CTE Success Center. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CULAR 213B 11.5 units**

**Food Preparation 2**

5.0 hours lecture, 20.0 hour laboratory  
Prerequisite: CULAR 20AD and CULAR 213A  
Corequisite: CULAR 20AD  
Grading: letter grade

This course emphasizes instruction in fruits, vegetables, herb preparation, dairy products, egg purchasing and cooking, dry goods, stocks, sauces, grilling, baking, broiling, roasting, sautéing, pan frying, deep frying, steaming, simmering, submersion cooking, braising and stewing techniques.

**CULAR 213C 11.5 units**

**Food Preparation 3**

5.0 hours lecture, 20.0 hour laboratory  
Prerequisite: CULAR 20AD and CULAR 213B  
Corequisite: CULAR 20AD  
Grading: letter grade

This course emphasizes instruction in Asian Cuisine, menu development, nutrition, safety; identification, fabrication and preparation of meats, poultry, fish and shellfish; preparation and identification of vegetables, herbs, starches and spices.

**CULAR 271AD 2.0 units**

**Work Experience: Food Services**

1.0 hour lecture, 4.1 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Grading: letter grade or pass/no pass

This course is required for students who plan to earn a career certificate in Culinary Arts or Baking. It consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job in the food services industry. It also involves vocational learning experiences through employment/Vocational Cooperative Work Experience directly related to occupational goal or career of interest to the student in the food services industry. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**CULAR 298 3.0 units**

**Viennese Pastries**

1.5 hours lecture, 2.0 hours laboratory  
Grading: letter grade

This course introduces the basics of Viennese Pastries, baked goods made in a similar manner to bread but with ingredients that give them a heavier, sweeter quality closer to pastry (including American, French and Tea Pastries, as well as Savories). The course also emphasizes the use of tools, equipment, materials, and basic characteristics of ingredients.

**DANCE (DANCE)**

**DANCE 1 3.0 units**

**Dance Forms Through the Ages**

3.0 hours lecture  
Grading: letter grade or pass/no pass  
This course explores the world of dance including its role in culture, its development through history and the theatrical dance forms in contemporary America. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 3AD 1.0 unit**

**Musical Theatre Dance**

1.0 hour lecture, 2.0 hours laboratory  
Grading: letter grade or pass/no pass  
This course introduces musical theatre dance styles from the 1940s to the present. It includes the study of ballet, jazz and tap techniques to prepare students for performance in musical theatre.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 5AB 1.0 unit**

**Beginning Tap**

1.0 hour lecture, 2.0 hours laboratory  
Grading: letter grade or pass/no pass  
Students will study basic tap dance techniques. This course provides the opportunity to develop coordination, rhythm and performance skills. Some history of tap will be included.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 6AB 1.0 unit**

**Intermediate Tap Dance**

1.0 hour lecture, 2.0 hours laboratory  
Recommended Preparation: DANCE 5AB  
Grading: letter grade or pass/no pass  
This is a continuing study of tap dance skills, emphasizing the intermediate level of dance. The course includes the study of terminology, tap history and tap styles.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 8AD 1.0 unit**

**Stretch and Relaxation**

1.0 hour lecture, 2.0 hours laboratory  
Grading: letter grade or pass/no pass  
This course includes the study and practice of stretching and breathing principles for increased flexibility, reduction of stress and improved mental and physical health.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 10AB 1.0 unit**

**Fundamentals of Ballet**

1.0 hour lecture, 2.0 hours laboratory  
Grading: letter grade or pass/no pass  
The study and execution of fundamental ballet



techniques. Appreciation of ballet as an art form through the study of its history, current trends and terminology.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 11AB 1.0 unit**

**Intermediate Ballet**

1.0 hour lecture, 2.0 hours laboratory

Prerequisite: DANCE 10AB or audition

Grading: letter grade or pass/no pass

This course is a continuing study of ballet technique. It includes an increased emphasis on body alignment, musicality, strength and flexibility.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 12AD 1.0 unit**

**Conditioning for Dance-Pilates**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a physical and mental conditioning program for dancers involving Pilates mat and apparatus work. This course is designed to enhance dance technique and performance and prevent injuries.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DANCE 13AD 1.0 unit**

**Turns**

1.0 hour lecture, 2.0 hours laboratory

Prerequisite: DANCE 10AB or DANCE 20AB or DANCE 14AB or by Audition

Grading: letter grade or pass/no pass

This course includes the practice and study of beginning to advanced turns for modern, ballet and jazz dance.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 14AB 1.0 unit**

**Beginning Modern Dance**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course emphasizes dance technique, musicality, improvisation and composition within the modern dance idiom.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 17AB 1.0 unit**

**Intermediate Modern Dance**

1.0 hour lecture, 2.0 hours laboratory

Prerequisite: DANCE 14AB

Grading: letter grade or pass/no pass

This course is the continuing study of modern dance techniques for the concert stage encompassing more complicated combinations taught at a quicker pace, with an emphasis on movement expression and a comparison of modern styles and choreographers.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 18AD 1.0 unit**

**Folk and Ethnic Dance**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course introduces dance from selected cultures and examines its role in society through the practice of dance traditions and rituals. Basic dance steps and styles are

taught emphasizing coordination, rhythm and body awareness.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 19 3.0 units**

**Hip Hop Dance History**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a comprehensive survey of Hip-hop dance history. The content of this course will cover the contributions and perspectives of men, women and members of various ethnic or cultural groups in street dance styles known as Hip-Hop from the 20th and 21st centuries. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 20AB 1.0 unit**

**Beginning Jazz Dance**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course serves as an introduction to the movement skills used in jazz dance. It includes the use of dynamics in rhythm, sustained and percussive tension, and dramatic focus unique to jazz.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 21AB 1.0 unit**

**Intermediate Jazz Dance**

1.0 hour lecture, 2.0 hours laboratory

Prerequisite: DANCE 20AB or Audition

Grading: letter grade or pass/no pass

This course is a study of the movement skills that require an intermediate knowledge of jazz dance techniques. Emphasis is on executing movement with a sense of performance, use of long movement patterns with a focus on dynamics in rhythm, sustained and percussive tension and dramatic focus that are unique to jazz.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 31AB 1.0 unit**

**Choreography I**

1.0 hour lecture, 2.0 hours laboratory

Prerequisite: One semester of DANCE 20AB, 10AB, 14AB or Audition.

Grading: letter grade or pass/no pass

This course is a study of creating movement for the dancer focusing on discovering inventive movement, creating a personal style of expression, and development of aesthetic judgment.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 32AB 1.0 unit**

**Choreography II**

1.0 hour lecture, 2.0 hours laboratory

Recommended Preparation: One semester of DANCE 31AB

Grading: letter grade or pass/no pass

This course is a study of choreography for a group of dancers focusing on the use of design in space to create dances of significant form. It includes work in a

collaborative environment teaching choreography to workshop participants.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 33AD 1.0 unit**

**Dance Choreography Workshop**

1.0 hour lecture, 2.0 hours laboratory

Prerequisite: DANCE 10AB, DANCE 20AB or DANCE 14AB or Audition.

Grading: letter grade or pass/no pass

This course is a collaborative workshop environment in which class participants work with student choreographers in the creation of dances of significant form and content.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 41/1 0.5 unit**

**Dance Performance**

2.0 hours laboratory

Corequisite: DANCE 5AB or DANCE 6AB or DANCE 10AB or DANCE 11AB or DANCE 12AD or DANCE 14AB or DANCE 17AB or DANCE 18AD or DANCE 20AB or DANCE 21AB.

Grading: letter grade or pass/no pass

This performance course emphasizes the application of choreographic concepts and skills through rehearsal and performance of dance projects for public performance. The appropriate class section in this sequence is assigned following skills assessment at the initial class meeting. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 41/2 1.0 unit**

**Dance Performance**

4.0 hours laboratory

Corequisite: DANCE 5AB or DANCE 6AB or DANCE 10AB or DANCE 11AB or DANCE 12AD or DANCE 14AB or DANCE 17AB or DANCE 18AD or DANCE 20AB or DANCE 21AB.

Grading: letter grade or pass/no pass

This performance course emphasizes the application of choreographic concepts and skills through rehearsal and performance of dance projects for public performance. The appropriate class section in this sequence is assigned following skills assessment at the initial class meeting. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 41/3 1.5 units**

**Dance Performance**

6.0 hours laboratory

Corequisite: DANCE 5AB or DANCE 6AB or DANCE 10AB or DANCE 11AB or DANCE 12AD or DANCE 14AB or DANCE 17AB or DANCE 18AD or DANCE 20AB or DANCE 21AB.

Grading: letter grade or pass/no pass

This performance course emphasizes the application of choreographic concepts and skills through rehearsal and performance of dance projects for public performance. The appropriate class section in this sequence is assigned

following skills assessment at the initial class meeting. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 41AD 2.0 units**

**Dance Performance**

8.0 hours laboratory

Corequisite: DANCE 5AB or DANCE 6AB or DANCE 10AB or DANCE 11AB or DANCE 12AD or DANCE 14AB or DANCE 17AB or DANCE 18AD or DANCE 20AB or DANCE 21AB.

Grading: letter grade or pass/no pass

This performance course emphasizes the application of choreographic concepts and skills through rehearsal and performance of dance projects for public performance. The appropriate class section in this sequence is assigned following skills assessment at the initial class meeting. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 60AD 1.0 unit**

**Special Projects in Dance**

3.0 hours laboratory

Grading: letter grade or pass/no pass

This course permits lower division students with a generalized background in dance to explore in-depth a specific aspect of dance in both theory and execution.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**DANCE 98AD 1.5 units**

**EXP Dance Ensemble Production**

1.0 hour lecture, 2.0 hours laboratory

Corequisite: DANCE 3AD or DANCE 5AB or DANCE 6AB or DANCE 10AB or DANCE 11AB or DANCE 13AD or DANCE 14AB or DANCE 17AB or DANCE 18AB or DANCE 20AB or DANCE 21AB or DANCE 60AD.

Grading: letter grade

This course will focus on the creative and production aspects of running a performance ensemble for the purpose of community outreach and performance. Students will be given a multitude of performance opportunities and logistical dance company building experiences in the development of knowledge and skills in the management of a dance company.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DIAGNOSTIC MEDICAL IMAGING (DMI)**

**DMI 10 3.0 units**

**Introduction of Radiologic Technology**

3.0 hours lecture

Prerequisite: AH 60 and AH 61 and ANAT 41

Grading: letter grade

This course is a study of the history and basic principles of medical radiography, the mechanics of radiographic exposure, the processing of the latent image, basic electrical and radiation safety measures, and

medicolegal issues that relate to the practice of radiologic technology.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 11 1.0 unit**

**Radiographic Techniques**

1.0 hour lecture

Prerequisite: DMI 20

Grading: letter grade

This course is a study of the criteria required to select x-ray machine settings to produce diagnostic quality radiographs and the compensations in radiographic technique that are required for pathologic conditions.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 12 3.0 units**

**Contrast Fluoroscope/Radiographic Proced**

3.0 hours lecture

Corequisite: DMI 11

Grading: letter grade

This course is a study of basic Fluoroscopy; Radiographic Contrast Media administration, pharmacology, safety, and treatments. Contrast Media examinations, Special Procedures, Digital Angiography, Vascular and Non-Vascular intervention, and Mammography are also discussed within the scope of this course.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 14 3.0 units**

**Trends and Self-Assessment in Rad Tech**

3.0 hours lecture

Prerequisite: DMI 15 or current C.R.T. (Certified Radiologic Technologist).

Grading: letter grade

The purpose of this course is to prepare the students for the state and national licensure/certification in this discipline. Students will analyze their strengths and weaknesses, and formulate strategies to ensure successfully passing the State and National board examinations.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 15 3.0 units**

**Computer Applications in Radiology**

3.0 hours lecture

Prerequisite: DMI 24

Grading: letter grade

This course is a study of the history of computer systems, hardware and software, and their uses in radiology. Specific areas covered are: CT, Digital Imaging, MRI, and Picture Archiving Systems.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 20 3.0 units**

**Introduction to Radiologic Physics**

3.0 hours lecture

Prerequisite: DMI 10

Grading: letter grade

This course provides a study of the basic principles of physics involved in the production, behavior, modification, and control of radiation.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 21 2.0 units**

**Applied Radiological Physics**

1.0 hour lecture, 3.0 hours laboratory

Prerequisite: DMI 20

Grading: letter grade

This course is a study of the application of the interaction of radiation and matter, technique manipulation, quality assurance, and quality control. Students are introduced to advanced Medical Imaging including: digital imaging; ultrasound; nuclear medicine; radiation oncology; PET; SPECT; and bone densitometry.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 24 3.0 units**

**Radiation: Biology and Protection**

3.0 hours lecture

Prerequisite: DMI 21

Grading: letter grade

This course presents a history of ionizing radiation exposure to humans. Cellular and biologic effects of ionizing radiation are explored, with specific emphasis as to ways of limiting exposure to patients and personnel. State and Federal regulations are discussed as they pertain to Diagnostic Medical Imaging.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 30 3.0 units**

**Positioning for General Diagnostic Rad**

2.0 hours lecture, 3.0 hours laboratory

Prerequisite: DMI 20

Recommended Preparation: DMI 11

Grading: letter grade

This course is the study of positioning for general and specialized radiologic exams of the skeletal system and adjacent organ systems. The student will develop skill in positioning the patient, film, and x-ray tube, and select appropriate techniques to produce diagnostic quality radiographic images.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 31 3.0 units**

**Positioning for Cranial Radiography**

2.0 hours lecture, 3.0 hours laboratory

Prerequisite: DMI 30

Grading: letter grade

This course is the study of positioning for general and specialized radiologic exams of the cranium and its contents. The student will develop skill in positioning the patient, film and x-ray tube, and select appropriate techniques to produce diagnostic quality radiographic images.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 40A 2.5 units**

**Clinical Radiology**

8.0 hours laboratory

Prerequisite: DMI 10 and DMI 20 and health evaluation.

Grading: letter grade

This course is the clinical application of theoretical knowledge to the practice of radiologic technology, correlation of clinical experiences, training and career goals, interpersonal relations, job oriented problems and image quality control. The course includes an

assignment to a radiology department in an accredited hospital for clinical experience.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 40B 6.0 units**

**Clinical Radiology**

1.0 hour lecture, 23.0 hours laboratory

Prerequisite: DMI 40A

Grading: letter grade

This course is the clinical application of theoretical knowledge to the practice of radiologic technology, correlation of clinical experiences, training and career goals, interpersonal relations, job oriented problems and image quality control. The course includes an assignment to a radiology department in an accredited hospital for clinical experience. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 40C 6.0 units**

**Clinical Radiology**

1.0 hour lecture, 13.0 hours laboratory

Prerequisite: DMI 40B

Grading: letter grade

This course is the clinical application of theoretical knowledge to the practice of radiologic technology, correlation of clinical experiences, training and career goals, interpersonal relations, job oriented problems and image quality control. The course includes an assignment to a radiology department in an accredited hospital for clinical experience.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 40D 11.0 units**

**Clinical Radiology**

1.0 hour lecture, 31.0 hour laboratory

Prerequisite: DMI 40C

Grading: letter grade

This course is the clinical application of theoretical knowledge to the practice of radiologic technology, correlation of clinical experiences, training and career goals, interpersonal relations, job oriented problems and image quality control. The course includes an assignment to a radiology department in an accredited hospital for clinical experience.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 40E 11.0 units**

**Clinical Radiology**

1.0 hour lecture, 31.0 hour laboratory

Prerequisite: DMI 40D

Grading: letter grade

This course is the clinical application of theoretical knowledge to the practice of radiologic technology, correlation of clinical experiences, training and career goals, interpersonal relations, job oriented problems and image quality control. The course includes an assignment to a radiology department in an accredited hospital for clinical experience. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on

"Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 60 3.0 units**

**Radiologic Pathology**

3.0 hours lecture

Prerequisite: ANAT 41 and DMI 11

Grading: letter grade

This course is an introduction to the study of disease as it relates to radiologic technology. It includes the causes, signs, symptoms and radiographic demonstration of common human diseases. The course acquaints the student with various pathologic conditions and their impact on the radiographic process.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 61 2.0 units**

**Fluoroscopy**

2.0 hours lecture, 1.0 hour laboratory

Prerequisite: DMI 40D or Equivalent

Corequisite: DMI 14

Grading: letter grade

This course includes the principles of radiation protection, fluoroscopy and viewing equipment, recording systems, quality control, patient positioning and regulatory provisions associated with fluoroscopy. This course prepares students to obtain a Department of Health Services Fluoroscopy permit.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 62 3.5 units**

**Mammography**

3.0 hours lecture, 1.5 hours laboratory

Prerequisite: DMI 40D or equivalent

Grading: letter grade

This course prepares students to obtain the Department of Health Services Mammography license. It includes: principles of components of dedicated mammography equipment, radiation protection legislation, quality assurance regulations and mammographic positioning.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DMI 222 0.5 unit**

**Venipuncture for Medical Imaging**

0.5 hour lecture, 0.5 hour laboratory

Prerequisite: DMI 12 and AH 61

Grading: letter grade or pass/no pass

This course is designed for instruction and supervised practice of the concepts and techniques of venipuncture. This course will partially fulfill the requirements of the California Health and Safety Code Section 106985 pertaining to Radiologic Technologists.

**DMI 401 3.0 units**

**Physical Principles of MRI**

3.0 hours lecture

Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.

Recommended Preparation: DMI 14 and DMI 40E

Grading: letter grade

This course provides the student with a comprehensive overview of Magnetic Resonance Imaging (MRI). Included are image acquisition; MRI equipment, terminology, and instrumentation; tissue characteristics;

basic patient and personnel safety; patient assessment and preparation; imaging parameters, and quality assurance. the course is designed to allow practicing technologists to obtain the necessary skills and knowledge to qualify for national licensure as MRI technologists.

**DMI 402 3.0 units**

**Magnetic Resonance Imaging Procedure**

3.0 hours lecture

Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.

Grading: letter grade

This course includes imaging techniques related to the Central Nervous System, neck thorax, musculoskeletal system and abdomen and pelvic regions. Specific clinical application, coils available and their use, consideration in the scan sequences, specific choices of protocols, and positioning criteria will be included. Planes that best demonstrate anatomy and the signal characteristics of normal and abnormal structures are discussed.

**DMI 403 3.0 units**

**Cross-Sectional Anatomy**

3.0 hours lecture

Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.

Recommended Preparation: ANAT 41

Grading: letter grade

This is a study of human anatomy as seen in axial, sagittal, and coronal planes as would be shown on CT or MRI examinations. Bony, muscular, vascular, soft tissues, and organs of the following anatomical regions are studied: central nervous system, head, neck, musculoskeletal, cardiovascular, thorax, abdomen, and pelvis.

**DMI 404 3.0 units**

**MRI/CT Pathology**

3.0 hours lecture

Prerequisite: DMI 60 or DMI 403

Grading: letter grade

This course familiarizes the student with the common pathologies demonstrated on MRI/CT examinations and their appearance with various imaging protocols. The course content will include all commonly imaged body systems and structures.

**DMI 405AB 2.5 units**

**MRI/CT Clinical Practicum**

8.0 hours laboratory

Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.

Grading: letter grade

This course allows the students the opportunity to practice the skills necessary to obtain high quality MR/CT images, to objectively alter protocols based on patient pathology or physical condition, and to identify image quality problems and make appropriate corrections. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**DMI 406 3.0 units**

**Computerized Tomography Physics**

3.0 hours lecture

Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.

Recommended Preparation: DMI 14 and DMI 40E

Grading: letter grade

This course provides the student with a comprehensive understanding of the physical principles and instrumentation involved in computed tomography (CT). Included are: physics topics, CT systems and operation' data acquisition and display, and radiation protection practices. The course is designed to allow practicing technologists the opportunity to acquire the necessary skills and knowledge to qualify for national licensure as CT technologists.

**DMI 407 3.0 units**

**Computerized Tomography Procedures**

3.0 hours lecture

Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.

Grading: letter grade

This course provides the student with detailed instruction on imaging techniques for computer tomography (CT). Procedures included are central nervous and musculoskeletal systems, neck, thorax, abdomen and pelvis. Specific clinical application, indications for the procedure, patient education, assessment and preparation, positioning, contrast media usage, and image processing will be included. CT images will be reviewed for quality, anatomy and pathology.

***DIESEL MECHANICS (DIESEL)***

**DIESEL 281 10.0 units**

**Detroit Diesel Engines**

5.0 hours lecture, 15.0 hours laboratory, 0.6 hour supplemental learning

Grading: letter grade or pass/no pass

This course is an introduction to Detroit Diesel Engines. It covers the safety procedures, disassembly, problem evaluation, repair procedures, reassembly, engine testing, troubleshooting and tuning of the Detroit diesel engine. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

**DIESEL 282 10.0 units**

**Cummins Four Cycle Engine**

5.0 hours lecture, 15.0 hours laboratory, 0.6 hour supplemental learning

Grading: letter grade or pass/no pass

This course is an introduction to Cummins Four-Cycle Engines. It covers safety procedures, disassembly, problem evaluation, repair procedures, reassembly, engine testing, troubleshooting and tuning of the engine. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

<p><b>DIESL 283</b>  <b>Powered Systems</b>                      5.0 hours lecture, 15.0 hours laboratory                      Prerequisite: DIESL 281 or 282                      Grading: letter grade or pass/no pass                      This course is an introduction to diesel powered systems required to support engines in a variety of applications. It covers the safety procedures, disassembly, component testing, troubleshooting and reassemble to factory standards.</p>	<p><b>10.0 units</b></p>	<p><b>DIESL 291</b>  <b>C.A.T. Hydraulics</b>                      5.0 hours lecture, 15.0 hours laboratory, 0.6 hour supplemental learning                      Grading: letter grade or pass/no pass                      This course is an introduction to Caterpillar hydraulics systems. It covers safety procedures, troubleshooting of hydraulic systems, problem evaluation and repair procedures on hydraulic pumps, valves and hydraulic equipment. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.</p>	<p><b>10.0 units</b></p>
<p><b>DIESL 284</b>  <b>Highway Transport</b>                      5.0 hours lecture, 15.0 hours laboratory                      Recommended Preparation: DIESL 282                      Grading: letter grade or pass/no pass                      This course covers safety, troubleshooting, and repair of all components that are used on heavy diesel trucks. Maintenance of the total truck and service operations will be highlighted.</p>	<p><b>10.0 units</b></p>	<p><b>DIESL 292</b>  <b>C.A.T. Chassis &amp; Electrical</b>                      5.0 hours lecture, 15.0 hours laboratory                      Grading: letter grade or pass/no pass                      This course is an introduction to Caterpillar off-highway and on-highway chassis and related components to support vehicles in a variety of powered system applications. It will include testing, analysis and repair of engines, vehicles and their components.</p>	<p><b>10.0 units</b></p>
<p><b>DIESL 287</b>  <b>Diesel Fuel Injection Systems</b>                      5.0 hours lecture, 15.0 hours laboratory                      Grading: letter grade or pass/no pass                      In this course students will learn safety, history of fuel injection, current types of fuel systems and function of a fuel injection system. Students will also learn equipment testing procedures, as well as, to disassemble and reassemble pump and injectors in Cummins, American Busch, Mack Engine, Detroit Engine, Caterpillar Engine, KiKi Mode Distributor Pumps and Roosa Master Fuel Systems.</p>	<p><b>10.0 units</b></p>	<p><b>DIESL 293AD</b>  <b>General Engines</b>                      3.0 hours lecture, 3.0 hours laboratory                      Grading: letter grade                      This course is an introduction to the operation and maintenance of various types of diesel and spark ignited engines. It will include fuel injection and fuel pump systems, governors, marine, special tools and testing equipment, and safety practices.</p>	<p><b>4.0 units</b></p>
<p><b>DIESL 288</b>  <b>Diesel Engine Chassis</b>                      5.0 hours lecture, 15.0 hours laboratory                      Prerequisite- DIESL 281 or 282                      Grading: letter grade or pass/no pass                      This course is an introduction to medium and heavy diesel truck chassis. Topics covered include learn safety, inspection, troubleshooting, removal, repair and replacement of all components that are used on a diesel truck chassis. Maintenance of the total chassis and service operations will be highlighted.</p>	<p><b>10.0 units</b></p>	<p><b>DIESL 391A</b>  <b>Hydraulics</b>                      2.0 hours lecture, 3.0 hours laboratory                      Grading: letter grade or pass/no pass                      This course is an introduction to heavy equipment hydraulic systems required to support a variety of heavy diesel applications. Topics will include shop safety practices, industry terminology and testing, troubleshooting, analysis and repair of hydraulic components.</p>	<p><b>3.0 units</b></p>
<p><b>DIESL 289</b>  <b>Caterpillar 3406 and 3116 Engine</b>                      5.0 hours lecture, 15.0 hours laboratory, 0.6 hour supplemental learning                      Grading: letter grade or pass/no pass                      This course is an introduction to Caterpillar Four-Cycle Engines. It covers safety procedures, disassembly, problem evaluation, repair procedures, reassembly, engine testing, troubleshooting and tuning of the engine. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.</p>	<p><b>10.0 units</b></p>	<p><b>DIESL 391B</b>  <b>Heavy Equipment Electrical Systems</b>                      3.0 hours lecture, 6.0 hours laboratory                      Grading: letter grade or pass/no pass                      This course is an introduction to Heavy Equipment Electrical Systems required to support a variety of Heavy Diesel Applications. Course topics will include the testing, troubleshooting, analysis and repair of electrical components required to support an array of Diesel Powered Systems.</p>	<p><b>5.0 units</b></p>
<p><b>DIESL 290</b>  <b>C.A.T. Transmissions and Final Drive</b>                      5.0 hours lecture, 15.0 hours laboratory                      Grading: letter grade or pass/no pass                      This course covers steering, clutches, brakes, transmissions and final drive units for Caterpillar heavy equipment intended for off-highway use.</p>	<p><b>10.0 units</b></p>	<p><b>DIESL 492</b>  <b>Air and Hydraulic Brakes</b>                      2.0 hours lecture, 3.0 hours laboratory                      Grading: letter grade or pass/no pass                      This course is an introduction to the theory and fundamentals of air and hydraulic brake systems.</p>	<p><b>3.0 units</b></p>

**DRAFTING AND MECHANICAL  
DESIGN (DRAFT)**

**DRAFT 51A 3.0 units**

**Industrial Drafting I**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: DRAFT 201

Grading: letter grade

This course will cover geometric tolerance dimensioning, orthographic projection, pictorial views, auxiliary views, sections, and intersections. Attention to machine and material shop processes will be practiced on all drawings. Basic freehand lettering, sketching and drawing instruments will be reviewed. Emphasis will be given to producing individualized and teamwork detail and assembly drawings.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DRAFT 51B 3.0 units**

**Industrial Drafting II**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: DRAFT 51A

Grading: letter grade

This course will cover dimension information on drawings using ANSI 14.5 geometric tolerance standards. Discussion and application of tolerance standards will be followed on all finished projects. Engineering designs will include welding drawings, screw threads, fasteners, keys, key ways, springs, gears, splines, cams and bearings. Advanced orthographic detail and assembly drawings will be developed and produced by the individual student or in student teams. Some projects will include development of 3D models.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DRAFT 52A 3.0 units**

**Advanced Industrial Drafting**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: DRAFT 51B

Grading: letter grade

This course includes discussion, development, and implementation of the following types of drawings: welding, piping, electrical, structural, tools and dies, jig and fixture design. Applied math will be used in creating charts, graphs, and diagrams that require information for materials and heat treatment. Product design fundamentals will be identified, analyzed, refined, and implemented on all drawings.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DRAFT 52B 3.0 units**

**Descriptive Geometry**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: DRAFT 52A

Grading: letter grade

This course will include information on the fundamentals of descriptive geometry used on points, edges, and surfaces. Drawings will use straight line and plane relationships in creating flat surfaces and curved lines and planes to generate surfaced intersections and developments. Vector geometry and graphic solutions are addressed.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DRAFT 60 3.0 units**

**Geometric Dimensioning and Tolerancing**

3.0 hours lecture

Recommended Preparation: DRAFT 201 or DRAFT 51A

Grading: letter grade

Geometric Dimensioning and Tolerances (GD&T) is a course designed for Manufacturing Technology students, Drafting Technology students, and professional upgrade training. The course covers a review of conventional dimensioning (non geometric tolerancing), clearance fits, tolerancing fundamentals, maximum material condition (MMC), least material condition (LMC), metric and inch dimensioning. GD&T conventions covered are: dimensioning and geometric tolerancing symbols, datums, material condition symbols, tolerances of form and profile, tolerances of orientation and runout, and location tolerances.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**DRAFT 201 4.0 units**

**Introduction to Drafting**

3.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: COMIS 1 or knowledge of computers and MATH 120 or basic geometry.

Grading: letter grade or pass/no pass

This is an entry-level course offered as a preparation for architectural design, mechanical drafting and interior design students with no previous graphic training. This course provides instruction in the fundamental principles and techniques of traditional drafting and computer aided drafting (CAD), including drafting equipment (manual and CAD), sketching, lettering, line type and line weight, orthographic projection, isometrics and dimensioning. The CAD training will utilize the latest software technology, such as AutoCAD, in the Windows environment and will introduce the following CAD fundamentals: user interface, basic draw and edit commands, template drawings, dimensioning, electronic drawing sheets, file management, printing and plotting and the Windows operating system for CAD users. Exercises will cover drawings for both mechanical and architectural applications.

**DRAFT 202AD 3.0 units**

**AutoCAD I, Fundamentals**

2.0 hours lecture, 4.0 hours laboratory

Recommended Preparation: COMIS 1 or knowledge of computers and Math 120 or basic geometry.

Grading: letter grade or pass/no pass

This course is an intermediate-level course aimed at individuals with a drafting background employed in engineering, architecture, interior design and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD). CAD training will utilize the latest software technology, such as AutoCAD, in the Windows environment. This course continues to introduce CAD fundamentals as well as intermediate drawing techniques: user interface, basic draw and edit commands, template drawings, dimensioning, electronic drawing sheets, file management, printing and plotting and the Windows operating system for CAD users. Exercises cover drawings for both mechanical and architectural applications.

**DRAFT 203AD**

**3.0 units**

**AutoCAD II, Advanced Concepts**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: DRAFT 201 or DRAFT 202AD

Grading: letter grade or pass/no pass

This course is an intermediate level course aimed at individuals with a drafting background employed in engineering, architecture, interior design and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD). Topics cover advanced 2D concepts and intermediate level 3D modeling using AutoCAD Software: user interface, advanced draw, edit, and query commands, template drawings, dimension styles, model space/paper space electronic drawing sheets, external reference styles, file management and the Web, plotting styles, blocks and attributes and 3D modeling techniques.

**DRAFT 204**

**4.0 units**

**3D Visualization/Animation**

3.0 hours lecture, 3.0 hours laboratory

Prerequisite: DRAFT 203AD

Grading: letter grade or pass/no pass

This course is an advanced-level course primarily aimed at individuals with a drafting background employed in engineering, architecture, interior design and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD), Visualization, Rendering and Animation. Successful completion of the three modules in Draft204 culminates in a Certificate of Achievement – 3D visualization, Rendering and Animation. CAD training will utilize AutoCAD and one or more of the following – Architectural Desktop, Sketchup, REVIT Architecture and 3D Studio MAX Software. Digital non-linear editing is introduced. Draft204 is the final class in a series of three leading to a Certificate of Completion – CAD Professional – Architectural or Mechanical Applications. Advanced 3D modeling and rendering concepts are explored: user interface, coordinate system, surface and solids modeling commands, rendering and animation. Projects cover both mechanical and architectural applications.

**DRAFT 273AD**

**4.0 units**

**WE — Mechanical Drafting**

1.0 hour lecture, 12.5 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Recommended Preparation: DRAFT 201 or DRAFT 51A or DRAFT 202

Grading: letter grade or pass/no pass

Vocational learning experiences through employment directly related to careers in Mechanical Design Drafting. This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment and or volunteer time directly related to occupational goals or careers of interest to the student.

***ECONOMICS (ECON)***

**ECON 1A (CAN ECON 2)**

**3.0 units**

**Macro Economic Analysis**

3.0 hours lecture

Prerequisite- MATH 130, MATH 130B or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the math assessment process.

Grading: letter grade or pass/no pass

This course examines the functioning of a mixed enterprise system. The class will include topics of the economic role of government, determination of national income, the banking system, and Federal Reserve policy. The instructional emphasis is on macroeconomic policy. Macroeconomics is concerned with the economy as a whole and large market segments. The attention is focused on such problems as; the level of unemployment, the rate of inflation, the nation's total output of goods and services, fiscal and monetary policies. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ECON 1AH**

**3.0 units**

**Honors Macro Economic Analysis**

3.0 hours lecture

Prerequisite- Qualification for Honors Program and MATH 130, MATH 130B or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the math assessment process.

Grading: letter grade or pass/no pass

This course examines the functioning of a mixed enterprise system. The class will include topics of the economic role of government, determination of national income, the banking system, and Federal Reserve policy. The instructional emphasis is on macroeconomic policy. Macroeconomics is concerned with the economy as a whole and large market segments. The attention is focused on such problems as; the level of unemployment, the rate of inflation, the nation's total output of goods and services, fiscal and monetary policies.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ECON 1B (CAN ECON 4)**

**3.0 units**

**Micro Economic Analysis**

3.0 hours lecture

Prerequisite- MATH 130, MATH 130B or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the math assessment process.

Grading: letter grade or pass/no pass

This course examines the behaviors of individual households and firms in a mixed enterprise capitalist system. The class will include topics of price theory, distribution, resource allocation, foreign trade and comparative economic systems. Microeconomics is concerned with specific economic units or parts that make up an economic system and the relationship between these parts. The emphasis is placed on understanding the behavior of individual firms and households, and the ways in which they interact. This course may be scheduled using the "To Be Arranged"



(TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ECON 1BH 3.0 units**

**Honors Micro Economics Analysis**

3.0 hours lecture

Prerequisite- Qualification for Honors Program and MATH 130, MATH 130B or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the math assessment process.

Grading: letter grade

This course examines the behaviors of individual households and firms in a mixed enterprise capitalist system. The class will include topics of price theory, distribution, resource allocation, foreign trade and comparative economic systems. Microeconomics is concerned with specific economic units or parts that make up an economic system and the relationship between these parts. The emphasis is placed on understanding the behavior of individual firms and households, and the ways in which they interact.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ECON 4 3.0 units**

**Contemporary Economic Issues**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course offers an economic analysis of contemporary questions including environmental, institutional, and multicultural issues. The class will determine the role of economics, as a social science, assisting in understanding causes, effects, and possible policies for current problems. The instructional emphasis is on the relationship of basic tools of economic analysis and their application to current economic problems. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ECON 5 3.0 units**

**The Global Economy**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course examines the location and organization of international economic activities from an economic, cultural, political, and environmental perspective. Topics covered by a faculty team drawn from economics and geography include the spatial distribution of resources and production, global flows of information, capital and labor, and regional inequalities such as income distribution, poverty, discrimination and standard of living. This class is recommended for students in business, social science and liberal arts with an interest in global and international issues, including regional and social inequalities, marketing and international trade, and tourism. This course is not open to students registered in or with credit in GEOG 5. This course may be scheduled using the “To Be Arranged”

(TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ELECTRICITY (ELECT)**

**ELECT 41 2.0 units**

**Technical Applications of Minicomputers**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade

The course will consist of an introduction to the various software programs used in the electrical program. Students will develop all the components of a complete engineering technical report. The course will utilize computer applications to research and complete technical reports and documentation. Included are AutoCAD, Word, Excel, Visio, Constructor, and web based communication and information research.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ELECT 200A 8.0 units**

**First Semester Industrial Electricity**

6.0 hours lecture, 6.0 hours laboratory

Grading: letter grade

This course is an introduction to direct current electrical theory. Covered are industry practices, application, study of nomenclature and components. Also covered are formulas used in electrical theory, information regarding proper use and selection of hand tools, and laboratory practices as performed in the electrical maintenance and construction industry.

**ELECT 200B 8.0 units**

**Second Semester Industrial Electricity**

6.0 hours lecture, 6.0 hours laboratory

Prerequisite: ELECT 200A or ELECT 204

Grading: letter grade

This course covers operational theory and practices associated with motors and generators. Included are theory and lab work associated with motors, generators, motor controls and circuit diagrams, including wiring practices in the electrical maintenance and construction industry.

**ELECT 200C 8.0 units**

**Third Semester Industrial Electricity**

6.0 hours lecture, 6.0 hours laboratory

Prerequisite: ELECT 225 and ELECT 209 or ELECT 200B

Grading: letter grade

This course is an introduction to Alternating Current theory, practices and applications with studies of nomenclature and components. It is a course that requires previous Direct Current electrical coursework and math.

**ELECT 200D 8.0 units**

**Fourth Semester Industrial Electricity**

6.0 hours lecture, 6.0 hours laboratory

Prerequisite: ELECT 200C or ELECT 212

Grading: letter grade

This is an advanced course that requires knowledge of AC circuitry, systems, and components. This course covers the complete electrical design of a

commercial/industrial facility inclusive of general electrical, AC motors, lighting, transformers and electrical load calculations. All design work is completed to applicable codes.

**ELECT 202 3.0 units**

**Electrical Mathematics**

3.0 hours lecture

Grading: letter grade

A study of mathematics used in the electrical and construction trades. Topics in arithmetic, fractions, decimals, percents, graphing, measurement and introduction to algebra are covered. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ELECT 204 3.0 units**

**First Semester Fundamentals of DC Electricity**

3.0 hours lecture

Grading: letter grade

This course is an introduction to direct current electrical theory, its practices, applications and study of nomenclature and components for students beginning electrical studies for occupational goals, continuing university education or for increasing skill levels. Included in this course are formulas used in electrical theory, information regarding proper use and selection of hand tools, materials, and wiring as practiced in the electrical maintenance and construction industry.

**ELECT 209 3.0 units**

**Second Sem Fund of Motors/Generators**

3.0 hours lecture

Prerequisite: ELECT 200A or (ELECT 202 and ELECT 204).

Grading: letter grade

This course covers the operational theory and practices associated with motors and generators. This includes theory associated with motors, generators, motor controls, circuit diagrams, and wiring practices in the electrical maintenance and construction industry.

**ELECT 210A 1.0 unit**

**Laboratory Practices 1**

3.0 hours laboratory

Corequisite: ELECT 204

Grading: letter grade

This course covers laboratory work associated with the fundamentals of DC electricity, electromagnetism, series, parallel and combination circuits, wiring practice and hand tools.

**ELECT 210B 1.0 unit**

**Laboratory Practices 2**

3.0 hours laboratory

Prerequisite: ELECT 210A or ELECT 200A

Corequisite: ELECT 209

Grading: letter grade

This course covers lab work associated with the fundamentals of DC electricity, DC principles and practices, as well as fundamentals of DC motors and generators and motor controls. Motors and generators are characterized and connected with various hard wired motor control circuits.

**ELECT 210C 1.0 unit**

**Laboratory Practices 3**

3.0 hours laboratory

Prerequisite: ELECT 210B or ELECT 200B

Corequisite: ELECT 212

Grading: letter grade

This course has lab work associated with the fundamentals of Alternating Current electricity, Alternating Current principles, practices and safe wiring practices with hand tools and instrumentation.

**ELECT 210D 1.0 unit**

**Laboratory Practices 4**

3.0 hours laboratory

Prerequisite: ELECT 210C or ELECT 200C

Grading: letter grade

This course is designed to provide lab work activities that are associated with electrical measuring instruments, motors, transformers and electrical design.

**ELECT 212 3.0 units**

**Third Semester Fund of AC Electricity**

3.0 hours lecture

Prerequisite: ELECT 225 and ELECT 209 or ELECT 200B

Grading: letter grade

This course is an introduction to Alternating Current theory, practices and applications with studies of nomenclature and components. It is an advanced course that requires previous Direct Current electrical coursework and math.

**ELECT 214 3.0 units**

**Fourth Semester AC Principles & Pract**

3.0 hours lecture

Prerequisite: ELECT 212 or ELECT 200C

Recommended Preparation: ELECT 212

Grading: letter grade

This is an advanced course that requires knowledge of AC circuitry, systems, and components. This course covers the complete electrical design of a commercial/industrial facility inclusive of general electrical, AC motors, lighting, transformers and electrical load calculations. All design work is completed to applicable codes.

**ELECT 225 4.0 units**

**Algebra and Trigonometry for Technicians**

4.0 hours lecture

Prerequisite: MATH 805 or MATH 815 or ELECT 202 or qualification through the Math assessment process

Grading: letter grade

This course will present basic algebra and trigonometry and their application to the solution of practical problems in technical (mechanical, electrical, construction) fields. This course is not open for credit to students registered in or with credit in MATH 225, 220, 230, 110 and 150. Formerly MATH 225.

**ELECT 226 3.0 units**

**Solid State Fundamentals for Electrician**

2.5 hours lecture, 1.5 hours laboratory

Prerequisite: ELECT 200B or ELECT 209

Grading: letter grade

This course covers electronic theory and practice as applied in industrial applications. Topics include component identification, schematic diagrams, circuit testing and troubleshooting industrial equipment. Safety issues involving high voltage industrial electronics are covered.

**ELECT 227 3.0 units**

**D.C. and A.C. Variable Speed Drives**

2.5 hours lecture, 1.5 hours laboratory

Prerequisite: ELECT 226

Grading: letter grade

This course covers the theory, circuit designs and application of direct current and alternating current variable speed drives. Topics include applications, testing and troubleshooting.

**ELECT 230A 3.0 units**

**Robotics Technology — Design**

2.5 hours lecture, 1.5 hours laboratory

Grading: letter grade

This course utilizes the engineering model of design, system integration and applications development as applied to the area of industrial and marine robotics technology, including power and control systems, troubleshooting, hydraulic and pneumatic systems, programming fundamentals, and issues relating to the operation of electrical equipment in harsh environments. Students may start the series in any segment to develop skills specific to each topic.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ELECT 230B 3.0 units**

**Robotics Technology — Integration**

2.5 hours lecture, 1.5 hours laboratory

Grading: letter grade

This course utilizes the engineering model of design, system integration and applications development as applied to the area of industrial and marine robotics technology, including power and control systems, troubleshooting, hydraulic and pneumatic systems, programming fundamentals, and issues relating to the operation of electrical equipment in harsh environments. Students may start the series in any segment to develop skills specific to each topic.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ELECT 230C 3.0 units**

**Robotics Technology — Applications**

2.5 hours lecture, 1.5 hours laboratory

Grading: letter grade

This course utilizes the engineering model of design, system integration and applications development as applied to the area of industrial and marine robotics technology, including power and control systems, troubleshooting, hydraulic and pneumatic systems, programming fundamentals, and issues relating to the operation of electrical equipment in harsh environments. Students may start the series in any segment to develop skills specific to each topic.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ELECT 240 3.0 units**

**Electrical Code-Residential**

3.0 hours lecture

Prerequisite: ELECT 200A or ELECT 204

Grading: letter grade

This course is an introduction to National Electrical Code requirements for residential wiring. Interpretation of electrical wiring diagrams, material use, installation methods and calculation of electrical loads to size feeders and conductors is included. This course may be

scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**ELECT 242 1.5 units**

**Electrical Code-Grounding**

1.5 hours lecture

Prerequisite: ELECT 245 or ELECT 250

Grading: letter grade

This course covers National Electrical Code requirements for grounding. Grounding system components, principles of operation, design and fault current calculations are included.

**ELECT 245 3.0 units**

**Electrical Code-Commercial**

3.0 hours lecture

Prerequisite: ELECT 240 and (ELECT 209 or ELECT 200B)

Grading: letter grade

This course covers National Electrical Code requirements for commercial, office and light industrial wiring. The electrical layout and design of commercial buildings, feeder circuit calculations, branch circuit calculations and circuit over current protection are included.

**ELECT 250 3.0 units**

**Electrical Code-Industrial**

3.0 hours lecture

Prerequisite: ELECT 240 and (ELECT 209 or ELECT 200B)

Grading: letter grade

This course covers National Electrical Code requirements for industrial applications. Materials and wiring methods for heavy industrial applications, life, safety and hazardous systems are included.

**ELECT 253 2.0 units**

**OSHA Standards for Construction Safety**

2.0 hours lecture

Grading: pass/no pass

This course covers OSHA policies, procedures, and standards, as well as construction safety and health principles. Topics include scope and application of the OSHA construction standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. Upon successful course completion, the student will receive an OSHA 30 Hour Construction Outreach Training Completion Card.

**ELECT 261 3.0 units**

**Introduction to Renewable Energy**

3.0 hours lecture

Grading: letter grade

This course will introduce students to renewable energy sources (wind, solar, micro-hydro, geothermal et. al.) along with the advantages and disadvantages of each. Suitable use for each energy source will be discussed, as well as emerging technology, products, and programs available that allow builders and owners to take advantage of renewables.

**ELECT 262 3.0 units**

**Solar 1-Grid-Tied Solar Photovoltaics**  
2.5 hours lecture, 1.5 hours laboratory  
Prerequisite: ELECT 209 and ELECT 210B or ELECT 200B  
Recommended Preparation: ELECT 261  
Grading: letter grade  
This level 1 lecture/laboratory electrical course will introduce students to the components that make up a photovoltaic (PV) system and the function of each. Students will also learn how to install, troubleshoot, and maintain a residential solar electric system.

**ELECT 263 3.0 units**

**Solar 2-Advanced Solar Photovoltaics**  
2.5 hours lecture, 1.5 hours laboratory  
Prerequisite: ELECT 262  
Grading: letter grade  
In this level 2 lecture/laboratory course students build upon skills learned in ELECT 262 to design and implement a cost-effective stand-alone photovoltaic (PV) system with battery backup. Students will also learn how to analyze data from system monitoring hardware and software, and use that data to adjust a PV system for optimal performance.

**ELECT 271 3.0 units**

**Electrical Cost Estimating 1**  
3.0 hours lecture  
Grading: letter grade  
This course will present an introduction to electrical cost estimating, including take-off and listing procedures. It is designed for students preparing to enter electrical estimating occupations or electrical contracting work.

**ELECT 275 0.5 unit**

**Electrical Pipe Bending (A)**  
0.3 hour lecture, 0.7 hour laboratory  
Grading: letter grade  
This course is a study of how to properly calculate, layout and bend electrical metallic tubing (E.M.T.) as per industry and National Electrical Code standards.

**ELECT 276 0.5 unit**

**Electrical Pipe Bending (B)**  
0.3 hour lecture, 0.6 hour laboratory  
Prerequisite: ELECT 275  
Grading: letter grade  
This course covers the proper methods to layout and bend rigid conduit. Methods taught include, hand bending and the use of mechanical and machine benders.

**ELECT 277 3.0 units**

**Blueprint Reading for Electricians**  
3.0 hours lecture  
Prerequisite: ELECT 212 or ELECT 200C  
Grading: letter grade  
This course is designed for students to comprehend, and correctly interpret blueprints used in the electrical and related construction trades.

**ELECT 280 3.0 units**

**Traffic Signal Systems 1**  
2.5 hours lecture, 1.5 hours laboratory  
Recommended Preparation: ELECT 204  
Grading: letter grade  
This first course in traffic signal systems includes instruction on the building and wiring of a working

intersection. CalTrans and NEC Standards and requirements, copper wiring, controller, pole and signal head installation, and controller theory are covered in this hands-on course.

**ELECT 283 3.0 units**

**Traffic Systems Communications**  
2.5 hours lecture, 1.5 hours laboratory  
Recommended Preparation: ELECT 204  
Grading: letter grade  
This course provides instruction in Traffic Signal Communications Systems. The course content will cover communications theory, microwave, VHF/UHF radios, vision monitoring and detection, antenna systems. This hands-on course will further include the testing and troubleshooting of communications systems.

**ELECT 284 3.0 units**

**Traffic Signal Controllers & Digital Systems**  
2.5 hours lecture, 1.5 hours laboratory  
Prerequisite: ELECT 204  
Grading: letter grade  
This is a course in digital logic and microprocessor controls as applied to Traffic Signal Systems. This hands-on course will include troubleshooting of digital traffic controllers. Course topics will include, but are not limited to, interface logic, electronics, and theory of system operation.

**ELECT 400 2.0 units**

**Electrical Certification Exam Prep**  
2.0 hours lecture  
Grading: pass/no pass  
This course prepares students to take the California Electrical Certification Exam. It includes testing methods, rapid code lookup, code calculations and applications. This course cannot be used for credit toward the certificate or degree in Electrical Technology.

**ELECT 435A 2.0 units**

**Electric Motor Control 1**  
2.0 hours lecture, 1.0 hour laboratory  
Prerequisite: ELECT 209 or ELECT 200B  
Grading: letter grade  
This course covers the theoretical and practical principles involving the control of direct and alternating current electric motors. Industry standard wiring practices and troubleshooting methods are covered. An introduction to Programmable Logic Controllers is included. Mandatory safety awareness assessment will be conducted early in the course.

**ELECT 435B 2.0 units**

**Electric Motor Control 2**  
2.0 hours lecture, 1.0 hour laboratory  
Prerequisite: ELECT 435A  
Grading: letter grade  
This course consists of advanced theoretical and practical principles involving the control of direct and alternating current electric motors and automation systems. Topics covered include Programmable Logic Controllers, ladder logic, wiring, timing and programming. GE Fanuc PLCs and GE Proficy software are utilized.

**EMERGENCY MEDICAL  
TECHNOLOGY (EMT)**

**EMT 251 3.0 units**

**Emergency Medical Technician**

3.0 hours lecture

Prerequisite: AH 60

Recommended Preparation: BIO 60

Grading: letter grade

This course will enable the student to develop basic skills in the assessment, rescue, immediate treatment and transport of the urgently ill or injured client. Course content emphasizes identifying and correcting life-threatening conditions, identifying rescue activities and developing a systematic approach to the care of the client and the performance of rescue activities. Relevant information on traumatic injuries, medical emergencies, environmental hazards, rescue techniques and equipment will be integrated.

**EMT 251L 1.5 units**

**Emergency Medical Technician Laboratory**

4.5 hours laboratory

Prerequisite: AH 60

Corequisite: EMT 251

Recommended Preparation: BIO 60

Grading: pass/no pass

This course is designed to develop basic skills in the assessment, rescue, immediate treatment and transport of the urgently ill or injured client. Emphasis will be placed on identifying and correcting life threatening conditions, identifying rescue problems and developing a systematic approach to the care of the client and the performance of rescue activities. Integrated into this course will be relevant information on traumatic injuries, medical emergencies, environment hazards, rescue techniques and equipment. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**EMT 252AD 1.0 unit**

**Emergency Medical Tech I Refresher**

1.0 hour lecture, 0.5 hour laboratory

Prerequisite: Current EMT — 1 Certification.

Grading: letter grade

The EMT-1 must have certification that is current or not expired more than six months. This course will be a review and update of life support measures, CPR and use of emergency medical equipment and supplies for the certified EMT-I.

**ENGINEERING (ENGR)**

**ENGR 3A 3.0 units**

**Engineering Graphics**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: MATH 120 or one year High School Geometry.

Recommended Preparation: One semester of DRAFT 201 or high school mechanical drawing or drafting.

Grading: letter grade

This course will review the methods of graphic expression common to the various fields of engineering. It will follow engineering drafting standards and procedures through working drawings. The use computers to prepare and study engineering drawings

and solving engineering space problems by orthographic methods will be emphasized.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGR 3B 3.0 units**

**Engineering Graphics**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: ENGR 3A and MATH 40

Grading: letter grade

This course will review the principles of graphic expression through working drawings. It will expand on the principles of descriptive geometry as studied in ENGR 3A. The use of computer drafting software as well as charts, diagrams and graphic solutions are discussed.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGR 17 (CAN ENGR 12) 3.0 units**

**Electrical Engineering Circuits**

3.0 hours lecture

Prerequisite: MATH 70 and PHYS 3B

Grading: letter grade

This course provides an introduction to electrical circuits from an engineering perspective. This includes mesh and node equations, controlled sources, Thevenin and Norton equivalencies, natural response of RLC circuits, phasor analysis and other topics.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGR 17L 1.0 unit**

**Electrical Engineering Circuits Lab**

3.0 hours laboratory

Prerequisite: ENGR 17 (may be taken concurrently)

Grading: letter grade

This course provides a laboratory study of electrical circuits and instrumentation to accompany the lecture course.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGR 35 (CAN ENGR 8) 3.0 units**

**Statics**

3.0 hours lecture

Prerequisite: PHYS 3A and MATH 70

Grading: letter grade

This is a first course in mechanics that will enable engineering students to analyze any problem in a simple and logical manner and to apply to its solution a few, well-understood, basic principles. This course introduces students to statics of particles, rigid bodies, Equilibrium of two- and three-dimensional force systems employing free-body diagrams. Topics that will be examined are centroids, center of gravity, analysis of structures, friction, and forces in beams and cables.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGR 50 1.0 unit**

**Introduction to Engineering**

1.0 hour lecture

Grading: pass/no pass

This course is an introduction to engineering concepts from various branches of engineering.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGR 54 3.5 units**

**Computer Methods**  
 3.0 hours lecture, 2.0 hours laboratory  
 Prerequisite: MATH 60 (may be taken concurrently)  
 Grading: letter grade or pass/no pass  
 This course will introduce students to the nature of computers, algorithms, problem solving procedures and programming. This course is designed to explore computer methods used to solve various applications from engineering, computer science, physical sciences and math areas. C++ is the primary programming language.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGLISH (ENGL)**

**ENGL 1 (CAN ENGL2) (Part of CAN ENGL SEQ) 4.0 units**

**Reading and Composition**  
 4.0 hours lecture, 0.2 hour supplemental learning  
 Prerequisite: Qualify through the English assessment process or ENGL 105 or ESL 34.  
 Grading: letter grade  
 In this course, students read and analyze college-level texts in order to write researched, thesis-based essays. During the semester, students are required to complete 3 hours of supplemental learning activities in a Success Center. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 1H 4.0 units**

**Honors Reading and Composition**  
 4.0 hours lecture  
 Prerequisite: Qualification for the Honors Program. Qualify through the English assessment process, or ENGL 105 or ESL 34.  
 Grading: letter grade  
 In this course, students read and analyze college-level texts in order to write researched, thesis-based essays. Eligibility for the Honors program is required for enrollment.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 2 (CAN ENGL4) (Part of CAN ENGL SEQ) 3.0 units**

**Introduction to Literature/Composition**  
 3.0 hours lecture  
 Prerequisite: ENGL 1 or ENGL 1H  
 Grading: letter grade or pass/no pass  
 This introduction to literature and composition places its emphasis on genre, such as short stories, poetry and drama. Writing assignments emphasize critical analysis and interpretation of the reading material.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 3 4.0 units**

**Argumentative and Critical Writing**  
 4.0 hours lecture  
 Prerequisite: ENGL 1  
 Grading: letter grade or pass/no pass  
 This course offers an introduction to the elements and uses of critical thinking and writing. Analytical, persuasive, evaluative, and argumentative writing will be emphasized, as well as the evaluation and use of both

electronic and conventional sources. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 3H 4.0 units**

**Honors Argumentative & Critical Writing**  
 4.0 hours lecture  
 Prerequisite: Qualification for the Honors Program and ENGL 1.  
 Grading: letter grade or pass/no pass  
 This course offers an introduction to the elements and uses of critical thinking and writing. Analytical, persuasive, evaluative, and argumentative writing will be emphasized, as well as the evaluation and use of both electronic and conventional sources.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 4 4.0 units**

**Critical Analysis of Literature**  
 4.0 hours lecture  
 Prerequisite: ENGL 1, ENGL 1H or placement through the assessment process.  
 Grading: letter grade  
 This course develops critical thinking skills through the written analysis of literary elements in fiction, poetry, and drama. Writing assignments emphasize argumentative strategies and the effective use of primary and secondary sources.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 6AD 3.0 units**

**Production of Literary Publications**  
 2.0 hours lecture, 3.0 hours laboratory  
 Grading: letter grade or pass/no pass  
 Students will study the principles and practice involved in editing and producing complete literary publications ranging in size and complexity from small pamphlets to books.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ENGL 7 3.0 units**

**Editing a Literary Review**  
 3.0 hours lecture  
 Grading: letter grade or pass/no pass  
 Students interested in editorial work will examine contemporary literary journals, reviews, and creative publications and analyze the basic philosophy of editing a journal. Also, they will have hands-on experience analyzing, considering, and choosing manuscripts appropriate to the standards of a literary journal.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ENGL 18 3.0 units**

**Detective and Crime Fiction**  
 3.0 hours lecture  
 Prerequisite: Eligibility for ENGL 1.  
 Grading: letter grade or pass/no pass  
 This course examines the origins and development of

detective and crime fiction. Students read and discuss the works of major 19th, 20th, and 21st century writers in the genre.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ENGL 24 4.0 units**

**College Grammar**

4.0 hours lecture

Grading: letter grade or pass/no pass

College Grammar is a transfer-level course designed to lead students through an examination of the English language, focusing on both theory and practice in grammar, usage and mechanics. It is recommended for students who wish to strengthen their knowledge of grammar and to improve their skill in writing and speaking in English as well as for people who need a strong knowledge of grammar, usage and mechanics for professional purposes.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ENGL 26 (CAN ENGL 6) 3.0 units**

**Creative Writing 1**

3.0 hours lecture

Prerequisite: Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This course offers practical, supervised experience in the fundamentals of writing fiction and poetry.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 27A 3.0 units**

**Creative Writing 2: Poetry**

3.0 hours lecture

Prerequisite: ENGL 26

Grading: letter grade or pass/no pass

This course offers advanced, practical experience in writing, appreciating and analyzing poetry.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 27B 3.0 units**

**Creative Writing 2: Fiction**

3.0 hours lecture

Prerequisite: ENGL 26

Grading: letter grade or pass/no pass

This course offers advanced, practical experience in writing, appreciating and analyzing fiction.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 27C 3.0 units**

**Creative Writing 2: Bio/Autobiography**

3.0 hours lecture

Prerequisite: ENGL 26

Grading: letter grade or pass/no pass

This course offers advanced, practical experience in investigating, writing, and appreciating autobiographical and biographical material for use in narrative sketches, including family history and the journal.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 27D 3.0 units**

**Creative Writing 2: Stage/Screen Writing**

3.0 hours lecture

Prerequisite: ENGL 26

Grading: letter grade or pass/no pass

This course offers advanced, practical, and supervised experience in the fundamentals of writing drama for stage, radio, television and/or film. Not open to students registered in or with credit in TART 32.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 27E 3.0 units**

**Creative Writing 2: The Novel**

3.0 hours lecture

Prerequisite: ENGL 26

Grading: letter grade or pass/no pass

This course gives an intensive workshop atmosphere in which to write an original work of book-length fiction; focuses on theory, technique and practical discipline of writing fiction; and examines models from various genres (literary classics, historical fiction, detective fiction, romance, science fiction and others). Students discuss the techniques of storytelling and present manuscripts of ones own work for critical discussion.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 30 3.0 units**

**Horror and Terror Fiction**

3.0 hours lecture

Prerequisite: Eligibility for ENGL 1.

Grading: letter grade

This course examines some of the best works in horror and terror fiction in both novel and short story forms. Beginning with origins in England, in the mid 18th century, discussions will move historically through the romantic movement and the Victorian era and into the modern era, covering such authors as Radcliffe, Poe, Lovecraft, James, King, Rice, Koontz, and Straub.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 32 3.0 units**

**Masterpieces/Asian Literature (in English)**

3.0 hours lecture

Prerequisite: Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This course is an introduction to Asian literature (in translation), with an emphasis on major literary works of India, China and Japan. The course is designed for students with a general interest in diverse literatures and for those who seek to understand the workings of the eastern mind in its unique historical, cultural and philosophical context.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 33 3.0 units**

**Mythology**

3.0 hours lecture

Prerequisite: Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This course focuses on the study of myths of various nations and archetypal mythic patterns. The reading and analysis of literature is based on these myths and patterns.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

<p><b>ENGL 33H</b></p> <p><b>Honors Mythology</b> 3.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This class focuses on the study of myths of various nations and archetypal mythic patterns. The reading and analysis of literature is based on these myths and patterns. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>	<p><b>ENGL 39</b></p> <p><b>The Bible as Lit: Apocrypha/New Testament</b> 3.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This course is a college-level course that provides an examination and analysis of the narratives, poetry, parables, and letters of the New Testament and Apocrypha, emphasizing a literary point of view. The course is designed for an audience interested in broadening their understanding of the literary characteristics and cultural and historical contexts of the books of the New Testament and the Apocrypha. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>
<p><b>ENGL 35</b></p> <p><b>Interpreting the Short Story</b> 3.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This course is a study of the interpretation of the short story and application of the meanings found in short stories to real-life situations through class discussion and writing assignments. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>	<p><b>ENGL 41 (CAN ENGL14) (Pt of CAN ENGL SEQ)</b></p> <p><b>American Literature I</b> 4.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This course is a survey of American literature from the Native American oral literature to published texts from the time of the Civil War. Readings will include authors of diverse cultural backgrounds: African American, European American, Hispanic American, and Native American. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>4.0 units</b></p>
<p><b>ENGL 36</b></p> <p><b>The Novel</b> 3.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This course is a study of the novel as a literary form. Students will read representative works in the English, American, European Continental, and other traditions within their respective cultural contexts. The course will examine how literary movements and schools, critical concepts such as canonicity, and various formal elements shape conceptions of the novel. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>	<p><b>ENGL 42 (CAN ENGL16) (Pt of CAN ENGL SEQ)</b></p> <p><b>American Literature II</b> 4.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This course is a survey of American literature from the Civil War to the present. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>4.0 units</b></p>
<p><b>ENGL 37</b></p> <p><b>Science Fiction, Fantasy and Horror</b> 3.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This course surveys major works of speculative fiction with an emphasis on major themes and genres. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>	<p><b>ENGL 43A</b></p> <p><b>Introduction to Shakespeare</b> 3.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This course involves reading, discussion, and analysis of seven plays and selected sonnets as it presents Shakespeare as a major literary figure in the context of the Elizabethan and Jacobean periods and the history of British literature. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>
<p><b>ENGL 38</b></p> <p><b>The Bible as Lit: The Old Testament</b> 3.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This course is a college-level course that provides an examination and analysis of the narratives, poetry, and structure of the Old Testament, emphasizing a literary point of view. The course is designed for an audience interested in broadening their understanding of the literary characteristics and the cultural and historical contexts of various books of the Old Testament. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>	<p><b>ENGL 43B</b></p> <p><b>Introduction to Shakespeare</b> 3.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This course involves reading, discussion, and analysis of seven plays and selections from the longer poems. The course presents Shakespeare as a major literary figure in the context of the Elizabethan and Jacobean periods and the history of British literature. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>



**ENGL 44 4.0 units**

**Literature of the Western World I**

4.0 hours lecture

Prerequisite: Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This course offers a survey of the historical development of western literature from classical times to the Renaissance, reflecting philosophical, political, and artistic changes in the western culture.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 44H 4.0 units**

**Honors Lit of the Western World I**

4.0 hours lecture

Prerequisite: Qualification for the Honors Program and Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This course offers an honors survey of the historical development of western literature from classical times to the Renaissance, reflecting philosophical, political, and artistic changes in the western culture.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 45 4.0 units**

**Literature of the Western World II**

4.0 hours lecture

Prerequisite: Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This course is a survey course that focuses on literature of the Western World, with emphasis on European literature in translation, covering works from the Renaissance to contemporary times and emphasizing the appreciation of aesthetic, philosophical, and cultural concepts.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 45H 4.0 units**

**Honors Lit of the Western World II**

4.0 hours lecture

Prerequisite: Qualification for the Honors Program and Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This course focuses on literature of the Western World, with emphasis on European literature in translation, covering works from the Renaissance to contemporary times and emphasizing the appreciation of aesthetic, philosophical, and cultural concepts.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 46 (CAN ENGL8) (Pt of CAN ENGL SEQ) 4.0 units**

**Survey of British Literature I**

4.0 hours lecture

Prerequisite: Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This course will focus on readings in the literature of Britain, with emphasis on English literature, Irish literature, and the works of other commonwealth nations from the early medieval period to the neoclassical period. Assignments will emphasize the appreciation of aesthetic, philosophical, and cultural concepts inherent in their works and their milieus.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 47 (CAN ENGL10) (Pt of CAN ENGL SEQ) 4.0 units**

**Survey of British Literature II**

4.0 hours lecture

Prerequisite: Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This course is a study of English literature from the late 18th (the time of the French Revolution) to the early 21st century. English literature is defined as literature written in English except by Americans and, thus, includes writers from such countries as South Africa, Ireland, Canada, and Australia, New Zealand.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 48 3.0 units**

**Modern & Contemporary Literature**

3.0 hours lecture

Prerequisite: Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This class is a study of imaginative literature written from the late 19th through the early 21st centuries. Writers chosen will represent world literature and will generally be those who have exerted a strong influence on contemporary attitudes, ideas, aesthetics, and values. The course will explore the revolutionary ways of writing and seeing that are peculiar to recent major artists.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 48H 3.0 units**

**Honors Modern/Contemporary Literature**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program and Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This class is a study of imaginative literature written from the late 19th through the early 21st centuries. Writers chosen will represent world literature and will generally be those who have exerted a strong influence on contemporary attitudes, ideas, aesthetics, and values. The course will explore the revolutionary ways of writing and seeing that are peculiar to recent major artists.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ENGL 49 3.0 units**

**Film and Literature**

3.0 hours lecture

Prerequisite: Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

Examination of the ways in which film and literary works are related through the interdisciplinary study of structure and theme. Analysis of cross-cultural/gender issues and artistic approaches to both genres, with focus on film adaptations of significant American and international literary works, primarily novels and plays. Discussion will include the ways in which literary works successfully/unsuccessfully translate into films.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

<p><b>ENGL 49H</b></p> <p><b>Honors Film and Literature</b> 3.0 hours lecture Prerequisite: Qualification for the Honors Program and Eligibility for ENGL 1. Grading: letter grade or pass/no pass Examination of the ways in which film and literary works are related through the interdisciplinary study of structure and theme. Analysis of cross-cultural gender issues and artistic approaches to both genres, with focus on film adaptations of significant American and international literary works, primarily novels and plays. Discussion will include the ways in which literary works successfully/unsuccessfully translate into films. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>	<p><b>ENGL 105</b></p> <p><b>Fundamentals of Writing</b> 4.0 hours lecture, 0.2 hour supplemental learning Prerequisite: Qualify through the English assessment process, or ENGL 801B. Grading: letter grade or pass/no pass This course focuses on expository and argumentative writing, standard written English and critical reading. The course prepares students for entrance into ENGL 1. During the semester, students are required to complete 3 hours of supplemental learning activities in a Success Center. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.</p>	<p><b>4.0 units</b></p>
<p><b>ENGL 79</b></p> <p><b>ST Literature of Diversity</b> 3.0 hours lecture Prerequisite: Eligibility for ENGL 1. Grading: letter grade or pass/no pass This course offers an introductory study of literature—centering on twentieth-century fiction, poetry, drama and nonfiction prose—by writers representing such diverse and often non-canonical groups as Blacks, women, Asian-Americans, Chicanos/Latinos, Native-Americans, and gays and lesbians. The course explores the revolutionary ways in which we create, read and analyze literature. Writers chosen will have exerted a strong influence on contemporary attitudes, ideas and values. This course may be repeated for credit as topics vary. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>	<p><b>ENGL 600</b></p> <p><b>Great Works of Literature</b> 3.0 hours lecture Grading: LBCC Non-Graded Course This course is an introduction to literature with an emphasis on both the reading of major works of literature and on training in written expression.</p>	<p><b>0.0 unit</b></p>
<p><b>ENGL 96</b></p> <p><b>ST: The Craft of Writing</b> 3.0 hours lecture Prerequisite: ENGL 27A, ENGL 27B, ENGL 27C, ENGL 27D or ENGL 27E Recommended Preparation: ENGL 1 Grading: letter grade or pass/no pass This special topics creative writing course focuses on the techniques and conventions of writing in a specific genre (e.g., poetry, short fiction, the novel, stage/screen writing, and creative non-fiction) and acquaints students with the process of preparing manuscripts for publication. Course subject matter will vary by semester; please refer to the schedule of classes for a particular semester’s topic. This course may be repeated for credit as topics change. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>	<p><b>ENGL 627</b></p> <p><b>Writing for Publication or Pleasure</b> 3.0 hours lecture Grading: LBCC Non-Graded Course This course gives students experience with the creative and critical processes in creative writing.</p>	<p><b>0.0 unit</b></p>
<p><b>ENGL 97AD</b></p> <p><b>Writers Workshop</b> 3.0 hours lecture Prerequisite: ENGL 27A, ENGL 27B, ENGL 27C, ENGL 27D or ENGL 27E Grading: letter grade or pass/no pass This course is a creative writing workshop for students who wish to learn additional skills in writing fiction, poetry, drama, biography or family history. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>	<p><b>ENGL 801A</b></p> <p><b>College English Skills I</b> 4.0 hours lecture, 0.2 hour supplemental learning Prerequisite: Qualification through the English assessment process. Grading: pass/no pass In this course, students practice the basic forms of composition. The course also focuses on further developing standards of written English skills to prepare students for ENGL 801B or 105. During the semester, students are required to complete 3 hours of supplemental learning activities in a Success Center. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.</p>	<p><b>4.0 units</b></p>
		<p><b>ENGL 801B</b></p> <p><b>College English Skills II</b> 4.0 hours lecture, 0.2 hour supplemental learning Prerequisite: ENGL 801A or Qualification through the English Assessment Process, which must be completed before registration. Grading: pass/no pass In this course, students practice the basic forms of composition, particularly moving from the paragraph to the essay. The course also focuses on further developing standards of written English skills to prepare students for ENGL 105. During the semester, students are required to complete 3 hours of supplemental learning activities in a Success Center. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.</p>	<p><b>4.0 units</b></p>

**ENGLISH, WRITING READING  
CENTER (EWRC)**

**EWRC 886AD 0.5 unit**

**Reading Adjunct**

0.2 hour lecture, 0.9 hour laboratory

Corequisite: READ 880 or READ 881 or READ 882 or READ 883 or READ 82 or READ 83 or READ 84 or READ 85

Grading: pass/no pass

This course focuses on study with a reading instructor to supplement instruction in the regular reading and vocabulary classes in which the student is enrolled. The reading instructor will reinforce skills presented in class, such as strategies for improving comprehension, vocabulary development, critical analysis, reading rate, and other study skills.

**EWRC 887AD 0.5 unit**

**Academic Reading**

0.2 hour lecture, 0.9 hour laboratory

Grading: pass/no pass

This course provides students the opportunity to work with a reading instructor to learn strategies to improve comprehension, vocabulary, critical reading, and/or reading rate flexibility. This course will help students effectively read materials assigned in college courses.

**EWRC 890AD 0.5 unit**

**Sentence Structure**

0.2 hour lecture, 0.9 hour laboratory

Grading: pass/no pass

This course offers instruction and practice in a variety of sentence structure skills and is available to students enrolled in classes in any discipline. Instruction may focus on using complete sentences, correcting sentences, and varying sentence structure.

**EWRC 891AD 0.5 unit**

**Spelling Principles**

0.2 hour lecture, 0.9 hour laboratory

Grading: pass/no pass

This course assesses individual spelling needs through a developmentally appropriate tool and provides instruction based on individual need.

**EWRC 892AB 0.5 unit**

**Phonics/Reading Fundamentals**

0.2 hour lecture, 0.9 hour laboratory

Grading: pass/no pass

This is an introductory course designed to teach the fundamental reading skills of phonics, word analysis, and comprehension through individualized assignments.

**EWRC 893AC 0.5 unit**

**Punctuation**

0.2 hour lecture, 0.9 hour laboratory

Grading: pass/no pass

This course offers instruction and practice in a variety of punctuation skills and is available to students enrolled in classes in any discipline.

**EWRC 895AB 0.5 unit**

**Functional Writing**

0.3 hour lecture, 0.7 hour laboratory

Grading: pass/no pass

This course offers individualized instruction in basic writing skills for students placed at this level. Activities include writing complete sentences, punctuating sentences, spelling correctly, paragraphing, and composing short pieces of writing to prepare students to succeed in future composition courses and to write effectively across the curriculum.

**EWRC 896AD 0.5 unit**

**Writing Adjunct**

0.2 hour lecture, 0.9 hour laboratory

Corequisite: ENGL 1, ENGL 105, ENGL 801A or ENGL 801B.

Grading: pass/no pass

This course is a study of writing strategies that supplements ENGL 1, 105 and 801A-B, offering individualized instruction in all phases of the writing process (planning, writing, revision, editing) and helps improve skills in the conventions of writing English: grammar, usage, punctuation, spelling and mechanics.

**EWRC 897AD 1.0 unit**

**Developmental Writing**

0.4 hour lecture, 1.9 hours laboratory

Prerequisite: ENGL 105, 801A or 801B.

Grading: pass/no pass

After being recommended for further work by a classroom English instructor, students in this course will receive the help they need beyond ENGL 105 or ENGL 801A-B in order to qualify for and/or succeed in the next higher course. This course provides individualized instruction in the composing process and helps improve skills in the conventions of written English: grammar, sentence structure, punctuation and spelling.

**EWRC 898AD 0.5 unit**

**Experimental: Accelerated Reading**

0.2 hour lecture, 0.9 hour laboratory

Prerequisite: Qualification through Reading Assessment for READ 82 or successful completion of READ 883

Grading: pass/no pass

This course is intended to increase the efficiency and reading rate for those students who have met reading proficiency, or who are eligible for READ 82 or have successfully completed READ 883. Through the use of computer-assisted learning, instructor-guided practices, and audio listening and reflection students will gain additional reading fluency and comprehension while increasing the rate of reading speed. This course is open to students in all transfer-related and nontransfer-related disciplines.

**EWRC 899AD 0.5 unit**

**English Adjunct**

0.2 hour lecture, 0.9 hour laboratory

Grading: pass/no pass

This course offers instruction and practice in writing and research skills and is available to students enrolled in classes in any discipline. The class may provide instruction in the writing process (prewriting, planning, and editing), and in research and writing strategies. Instruction may focus on any aspect of writing from generating ideas or conducting research to organizing research notes or writing a bibliography.

**ENGLISH AS A SECOND  
LANGUAGE (ESL)**

**ESL 33 5.0 units**

**College English for ESL Students**

6.0 hours lecture

Prerequisite: Placement by the college assessment process or ESL 56 or ESL 56X.

Recommended Preparation: ESL 65 or READ 882

Grading: letter grade

An intensive course in reading and writing English focusing on academic language skills needed for the AA and AS degrees; skills to include expository essay writing, summarizing, paraphrasing, reading comprehension and critical analysis. Prepares students for ESL 34.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ESL 33X 5.0 units**

**College English with Computers for ESL**

6.0 hours lecture

Prerequisite: Placement by the college assessment process or ESL 56 or ESL 56X.

Recommended Preparation: ESL 65 or READ 882

Grading: letter grade

This course is an intensive study of reading and writing English focusing on the academic language skills needed for the AA and AS degrees. Skills taught include expository essay writing, summarizing, paraphrasing, reading comprehension, and critical analysis. Students use personal computers to complete the writing assignments. This course prepares students for ESL 34.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ESL 34 5.0 units**

**College English for ESL Students**

6.0 hours lecture

Prerequisite: Placement by the college assessment process or ESL 33 or ESL 33X.

Recommended Preparation: ESL 65 or READ 882

Grading: letter grade

This course is an intensive study of reading and writing focusing on the academic language skills needed for the AA and AS degrees and for entrance into ENGL 1 and ENGL 82. Skills taught include expository and argumentative essay writing, summarizing of academic readings and articles about current events, critical

analysis of readings in literature, library and Internet research, and documentation of sources.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ESL 34X 5.0 units**

**College Engl/Computers for ESL Students**

6.0 hours lecture

Prerequisite: Placement by the college assessment process or ESL 33 or ESL 33X.

Recommended Preparation: ESL 65 or READ 882

Grading: letter grade

This course is an intensive study of reading and writing English focusing on the academic language skills needed for the AA and AS degrees and for entrance into ENGL 1 and ENGL 82. Students use personal computers to complete the writing assignments. Skills taught include expository and argumentative essay writing, summarizing of academic readings and articles about current events, critical analysis of readings in literature, library and Internet research, and use and documentation of sources.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ESL 54 4.0 units**

**Effective Writing for ESL**

6.0 hours lecture

Prerequisite: Placement by the college assessment process or one semester of ESL 147AB.

Grading: letter grade or pass/no pass

To prepare for college level writing, ESL 54 provides students with intensive sentence structure practice while they learn to write coherent paragraphs incorporating the use of transitional devices. Students will be introduced to and practice paraphrasing.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ESL 54X 4.0 units**

**Effective Writing with Computers for ESL**

6.0 hours lecture

Prerequisite: Placement by the college assessment process or one semester of ESL 147AB.

Grading: letter grade or pass/no pass

To prepare for college level writing, ESL 54X provides ESL students with intensive sentence structure practice while they learn to write coherent paragraphs incorporating the use of transitional devices. Students will be introduced to and practice paraphrasing. Writing assignments will be prepared using computers.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ESL 56 4.0 units**

**College Writing for ESL**

6.0 hours lecture

Prerequisite: ESL 147AB or ESL 54 or ESL 54X or placement by the college assessment process.

Grading: letter grade or pass/no pass

This course focuses on intensive summarizing of articles and writing of conceptual paragraphs that incorporate the elements of cohesion, unity, and support to prepare students for college level writing. Rhetorical modes covered include narration, description, explanation, and persuasion.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ESL 56X 4.0 units**

**College Writing with Computers for ESL**

6.0 hours lecture

Prerequisite: ESL 147AB or ESL 54 or ESL 54X or placement by the college assessment process.

Grading: letter grade or pass/no pass

This course focuses on intensive summarizing of articles and writing of conceptual paragraphs that incorporate the elements of cohesion, unity, and support to prepare students for college level writing. Rhetorical modes covered include narration, description, explanation, and persuasion. All writing assignments are done on computers.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ESL 63 4.0 units**

**Effective Reading for ESL Students**

6.0 hours lecture

Prerequisite: One semester of ESL 147AB, or qualification through the ESL Department reading assessment process or eligibility for ESL 54/ESL 54X.

Grading: letter grade or pass/no pass

This course is designed to improve student ability to comprehend written English, primarily academic prose and fiction, and focuses on developing systematic strategies to derive sentence meaning; expand general and academic vocabulary; extract main ideas; extrapolate information; draw conclusions; recognize basic Standard North American written discourse conventions; interpret charts, timelines, and tables; and interact with text through writing. ESL 63 is the first in a sequence of two ESL reading courses and not required for entry into the second, ESL 65, except in individual cases.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ESL 65 4.0 units**

**College Read/Listen for ESL Students**

6.0 hours lecture

Prerequisite: One semester of ESL 147AB, or qualification through the ESL Department reading assessment process, or ESL 63, or eligibility for ESL 56/ESL 56X.

Grading: letter grade or pass/no pass

This course focuses on the development of strategies for effective reading and lecture comprehension; enhancement of critical reading; listening and notetaking; general and academic vocabulary expansion; and interaction with text through writing. Intensive and extensive application primarily to academic oral and written discourse and to novel-length fiction prepares nonnative students for placement in READ 882, READ 883, or READ 82. ESL 63 is part of a sequence.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ESL 146AB 2.0 units**

**Comprehensive Grammar I**

6.0 hours lecture

Prerequisite: ESL 645 or one semester of 845AB or placement by the College English or ESL assessment process.

Recommended Preparation: One semester of ESL 812AB

Grading: letter grade or pass/no pass

This course is the first of two courses which together constitute a comprehensive review of the basic grammar of English in its entirety, together with the presentation of more complex grammatical features and troublesome exceptions, for students who have mastered or nearly mastered the fundamentals of English. The course provides in-depth study of the grammatical features and basic sentence patterns of English which students must command in order to succeed in academic, college-level courses. Also included in the course are the writing of multi-clause sentences and work with a variety of English idioms.

**ESL 147AB 2.0 units**

**Comprehensive Grammar II**

6.0 hours lecture

Prerequisite: One semester ESL 146AB.

Recommended Preparation: One semester of ESL 814AB

Grading: letter grade or pass/no pass

This course is the second of two courses which together constitute a comprehensive review of the basic grammar of English in its entirety, together with the presentation of more complex grammatical features and troublesome exceptions, for students who have mastered or nearly mastered the fundamentals of English. The course provides in-depth study of the grammatical features and basic sentence patterns of English which students must command in order to succeed in academic, college-level courses. Also included in the course are the writing of multi-clauses sentences and short, coherent organized paragraphs plus work with a variety of English idioms.

**ESL 270 2.0 units**

**Intercultural Communication**

6.0 hours lecture

Prerequisite: Equivalent skills as determined by ESL placement process or ESL 645 or one semester of ESL 845AB.

Grading: letter grade or pass/no pass

A semester length course which gives intermediate students the skills needed to communicate effectively. American culture will be learned via role-playing activities, journal writings, interviews, readings, library/internet research, etc. Cross-cultural and intercultural differences will also be emphasized. Idiomatic language will be taught.

**ESL 271 2.0 units**

**Improving Fluency in Oral Communications**

6.0 hours lecture

Prerequisite: Equivalent skills as determined by ESL placement process or ESL 645 or one semester of ESL 845AB.

Grading: letter grade or pass/no pass

An intermediate to advanced level communication course designed to develop fluency and confidence in spoken English, improve listening and pronunciation skills, teach common proverbs and idiomatic expressions used in Standard North American English, and provide practice in interpersonal communication skills.

**ESL 272 2.0 units**

**Communication for the World of Work**

6.0 hours lecture

Prerequisite: Equivalent skills as determined by ESL placement process or ESL 645 or one semester of ESL 845AB.

Grading: letter grade or pass/no pass

An intermediate level communication course to aid ESL students who encounter job-related language difficulties. Cultural information, language for interviewing, job applications, understanding work-related policies and procedures will be taught. Idiomatic language related to the world of work will be emphasized.

**ESL 273 2.0 units**

**Intermediate Grammar**

6.0 hours lecture

Grading: letter grade or pass/no pass

A semester long intermediate level ESL course which teaches grammatical concepts of the English language. Grammar is taught in form-focused language-learning activities with ample opportunity for communicative interaction.

**ESL 274 2.0 units**

**Reading about the United States**

6.0 hours lecture

Prerequisite: Equivalent skills as determined by ESL placement process or ESL 645 or one semester of ESL 845AB.

Grading: letter grade or pass/no pass

This intermediate level reading course acquaints students with various cultural aspects of life in the United States. Students read and discuss narratives and general information articles from journals.

**ESL 275 2.0 units**

**Writing for the World of Work**

6.0 hours lecture

Prerequisite: Equivalent skills as determined by ESL placement process or ESL 645 or one semester of ESL 845AB.

Grading: letter grade or pass/no pass

This course is an intermediate level course to help students who encounter writing difficulties on the job. Memos, faxes, cover letters, general business letters, resumes, punctuation, and autobiographies will be emphasized.

**ESL 275X 2.0 units**

**Writing for the World of Work**

6.0 hours lecture

Prerequisite: Equivalent skills as determined by ESL placement process or ESL 645 or one semester of ESL 845AB.

Grading: letter grade or pass/no pass

A computer-assisted, intermediate-level writing course which helps students who encounter writing difficulties on the job. Memos, faxes, cover letters, general business letters, resumes, punctuation, and autobiography will be taught.

**ESL 602A 0.0 unit**

**Reading Skills for ESL Students 1**

1.5 hours lecture

Grading: LBCC Non-Graded Course

This first course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read, and build vocabulary. ESL 602A teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students learn the rules for morphology, spelling and reading to assist them in vocabulary building, pronunciation and comprehension. Course content coincides with ESL 800AB.

**ESL 602B 0.0 unit**

**Reading Skills for ESL Students 2**

1.5 hours lecture

Recommended Preparation: ESL 602A

Grading: LBCC Non-Graded Course

This second course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602B teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 602A and in addition learn to analyze a passage for specific content and define words in context. Course content coincides with ESL 801AB.

**ESL 602C 0.0 unit**

**Reading Skills for ESL Students 3**

1.5 hours lecture

Recommended Preparation: ESL 602B

Grading: LBCC Non-Graded Course

This third course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602C teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 602B and in addition learn to analyze a passage for specific content and define words in context. Course content coincides with ESL 802AB.

**ESL 602D 0.0 unit**

**Reading Skills for ESL Students 4**

1.5 hours lecture

Recommended Preparation: ESL 602C

Grading: LBCC Non-Graded Course

This fourth course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602D teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 602C and in addition learn to make inferences and support opinions about reading selections. Course content coincides with ESL 803AB.

**ESL 602E 0.0 unit**

**Reading Skills for ESL Students 5**

1.5 hours lecture

Recommended Preparation: ESL 602D

Grading: LBCC Non-Graded Course

This fifth course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602E teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 602D and in addition learn to compare characters in readings and differentiate word meaning by context. Course content coincides with ESL 804AB.

**ESL 602F 0.0 unit**

**Reading Skills for ESL Students 6**

1.5 hours lecture

Recommended Preparation: ESL 602E

Grading: LBCC Non-Graded Course

This sixth course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602F teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 602E and in addition learn to identify central conflicts of stories and make inferences based on facts and details. Course content coincides with ESL 805AB.

**ESL 602G 0.0 unit**

**Reading Skills for ESL Students 7**

1.5 hours lecture

Recommended Preparation: ESL 602F

Grading: LBCC Non-Graded Course

This seventh course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602G teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 602F and in addition learn to identify similes, metaphors, personification, hyperbole and symbols. Course content coincides with ESL 806AB.

**ESL 640 0.0 unit**

**English for Everyday 0**

6.0 hours lecture

Grading: LBCC Non-Graded Course

This course is the first of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

**ESL 641 0.0 unit**

**English for Everyday 1**

6.0 hours lecture

Prerequisite: ESL 640 or Equivalent skills as determined by ESL assessment process .

Grading: LBCC Non-Graded Course

This course is the second of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

**ESL 642 0.0 unit**

**English for Everyday 2**

6.0 hours lecture

Prerequisite: ESL 641 or Equivalent skills as determined by ESL assessment process .

Grading: LBCC Non-Graded Course

This course is the third in a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written Standard North American English.

**ESL 643 0.0 unit**

**English for Everyday 3**

6.0 hours lecture

Prerequisite: Qualify through the ESL placement process or ESL 642 or one semester of ESL 842AB.

Grading: LBCC Non-Graded Course

This course is the fourth of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

**ESL 644 0.0 unit**

**English for Everyday 4**

6.0 hours lecture

Prerequisite: Qualify through the ESL placement process or ESL 643 or one semester of ESL 843AB.

Grading: LBCC Non-Graded Course

This course is the fifth of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

**ESL 645 0.0 unit**

**English for Everyday 5**

6.0 hours lecture

Prerequisite: ESL 644 or equivalent skills as determined by ESL placement process.

Grading: LBCC Non-Graded Course

This course is the sixth of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

**ESL 800AB 0.5 unit**

**Basic ESL Reading**

1.5 hours lecture

Grading: pass/no pass

This first course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read, and build vocabulary. ESL 800AB teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students learn the rules for morphology, spelling and reading to assist them in vocabulary building, pronunciation and comprehension. Course content coincides with ESL 602A.

**ESL 801AB 0.5 unit**

**Reading Skills for ESL Students**

1.5 hours lecture

Recommended Preparation: One semester of ESL 800AB.

Grading: pass/no pass

This course is the second course in a series of seven reading skills courses. In ESL 801AB, students read for comprehension and to build vocabulary. Students will identify, reproduce and comprehend words, sentences, paragraphs and passages without the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 800AB and

learn to analyze a passage for specific content and define words in context. The course content of ESL 801AB coincides with ESL 602B.

**ESL 802AB** **0.5 unit**

**Reading Skills for ESL Students**

1.5 hours lecture

Recommended Preparation: One semester of ESL 801AB.

Grading: pass/no pass

This course is the third course in a series of seven reading skills courses. In ESL 802AB, students identify, reproduce, and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 801AB, analyze a passage for specific content, and define words in context. The course content of ESL 802AB coincides with ESL 602C.

**ESL 803AB** **0.5 unit**

**Reading Skills for ESL Students**

1.5 hours lecture

Recommended Preparation: One semester of ESL 802AB.

Grading: pass/no pass

This course is the fourth course in a series of seven reading skills courses. In ESL 803AB, students identify, reproduce, and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 802AB, and analyze a passage for specific content, and define words in context. The course content of ESL 803AB coincides with ESL 602D.

**ESL 804AB** **0.5 unit**

**Reading Skills for ESL Students**

1.5 hours lecture

Recommended Preparation: One semester of ESL 803AB.

Grading: pass/no pass

This course is the fifth course in a series of seven reading skills courses. In ESL 804AB, students read for comprehension to build vocabulary. Students will identify, reproduce and comprehend words, sentences, paragraphs, and passages with the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 803AB and learn to analyze a passage for specific content and define words in context. The course content of ESL 804AB coincides with ESL 602E.

**ESL 805AB** **0.5 unit**

**Reading Skills for ESL Students**

1.5 hours lecture

Recommended Preparation: One semester of ESL 804AB.

Grading: pass/no pass

This sixth course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. In ESL 805AB, students read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 804AB and in addition learn to identify central conflicts of stories and make inferences based on facts and details. The course content of ESL 805AB coincides with ESL 602F.

**ESL 806AB** **0.5 unit**

**Reading Skills for ESL Students**

1.5 hours lecture

Recommended Preparation: One semester of ESL 805AB.

Grading: pass/no pass

This seventh course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. In ESL 806AB, students read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 805AB and learn to identify central conflicts of stories and make inferences based on facts and details. The course content of ESL 806AB coincides with ESL 602G.

**ESL 810AB** **1.0 unit**

**Fundamentals of English Grammar**

3.0 hours lecture

Recommended Preparation: ESL 645/845AB or Equivalent skills as determined by ESL placement process.

Grading: pass/no pass

This course introduces grammatical terminology and guides intermediate-level ESL students to mastery of specific grammatical patterns. ESL 810 emphasizes the use of verb tenses and agreement between subject and verb, article and noun, as well as verb and adverb. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ESL 812AB** **0.5 unit**

**Reading for Information and Pleasure**

1.5 hours lecture

Recommended Preparation: ESL 645 or ESL 845AB or placement course recommendation for ESL 146AB.

Grading: pass/no pass

This course is designed to improve students' ability to extract essential information from academic passages of a variety of written English material while building vocabulary, improving dictionary skills, and developing comprehension and critical reading skills. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ESL 813AB** **0.5 unit**

**Conversation 2**

1.5 hours lecture

Prerequisite: ESL 845AB or placement course recommendation for ESL 146, 147, 54, 56, 33, 34, 63, 65, 270, 271, 272, 273, 274, 275.

Grading: pass/no pass

This course provides conversational practice through group discussions of current topics and practice in expressing feelings, opinions, and ideas.

**ESL 814AB** **0.5 unit**

**Composition for ESL Students**

1.5 hours lecture

Recommended Preparation: ESL 645 or ESL 845AB or placement course recommendation for ESL 146AB.

Grading: pass/no pass



This course (Composition) offers intermediate level ESL students systematic instruction and practice in the construction of short connected series of sentences which state an opinion, describe a process, give information or instructions, or report an experience. This course provides instruction and practice in organizing ideas and in identifying and writing topic and support sentences. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**ESL 815** **2.0 units**

**Accent Reduction**

6.0 hours lecture

Recommended Preparation: ESL 645 or ESL 845AB

Grading: pass/no pass

This intensive semester-long accent reduction course for intermediate to advanced non-native speakers focuses on the mastery of the English vowel/consonant sound system, stress patterns, melody, rhythm, and intonation of intelligible speech. Extended contextual practice enables students to modify nonstandard pronunciation patterns and achieve improved oral communications.

**ESL 818AB** **0.5 unit**

**Vocabulary Development**

1.5 hours lecture

Grading: pass/no pass

In this course, nonnative students prepare for academic success in institutions of higher learning by studying the general academic vocabulary encountered across college disciplines. Instruction focuses on incorporating vocabulary mastery strategies that stimulate students to become active lifelong learners of the North American English lexicon. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**ESL 819F** **0.5 unit**

**Conversation at Crossroads Cafe**

1.5 hours lecture

Recommended Preparation: Eligibility for ESL 842AB or ESL 642

Grading: pass/no pass

Crossroads Cafe Conversation Class F is the sixth of six multi-level conversation classes using the Crossroads Cafe video series as the focus for conversation practice, vocabulary building, basic grammar, and idiomatic expressions. Any student in ESL 842 or above who has a VCR and enjoys watching TV can learn English in a unique and stimulating way by watching television and singing along with music videos.

**ESL 840AB** **0.5 unit**

**Introduction to College English 0**

6.0 hours lecture

Grading: pass/no pass

This course is the first of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

**ESL 841AB** **0.5 unit**

**Introduction to College English I**

6.0 hours lecture

Prerequisite: Qualify through the ESL placement process or ESL 640 or one semester of ESL 840AB.

Grading: pass/no pass

This course is the second of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

**ESL 842AB** **1.0 unit**

**Introduction to College English 2**

6.0 hours lecture

Prerequisite: Qualify through the ESL placement process or ESL 641 or one semester of ESL 841AB.

Grading: pass/no pass

This course is the third of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

**ESL 843AB** **1.0 unit**

**Introduction to College English 3**

6.0 hours lecture

Prerequisite: Qualify through the ESL placement process or ESL 642 or one semester of ESL 842AB.

Grading: pass/no pass

This course is the fourth of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

**ESL 844AB** **1.0 unit**

**Introduction to College English 4**

6.0 hours lecture

Prerequisite: Qualify through the ESL placement process or ESL 643 or one semester of ESL 843AB.

Grading: pass/no pass

This course is the fifth of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

**ESL 845AB** **1.0 unit**

**Introduction to College English 5**

6.0 hours lecture

Prerequisite: Qualify through the ESL placement process or ESL 644 or one semester of ESL 844AB.

Grading: pass/no pass

This course is the sixth of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

**ENGLISH AS A SECOND  
LANGUAGE, LEARNING CENTER**

**ESLLC 699 0.0 unit**

**Basic Skills for ESL Students**

3.0 hours laboratory

Grading: LBCC Non-Graded Course

This course provides individualized programmed instruction for non-native speakers of English who are enrolled in courses and need to improve their mastery of English as a Second Language or who are enrolled in ESL courses but need additional assistance in building or improving literary or communicative skills. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ENVIRONMENTAL SCIENCE  
(ENVRS)**

**ENVRS 1 3.0 units**

**Energy for the Future**

3.0 hours lecture

Grading: letter grade or pass/no pass

This is an introductory physical science course which will familiarize the student with the fundamental principles of environmental systems and discuss current environmental issues. Interpretation of data in drawing a conclusion is stressed, along with the ability to criticize methods of data collection and experimentation. Topics include basic physical science, energy production and consumption, scarcity of resources, conservation, pollution, governmental regulation, and developments in environmental remediation.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FAMILY AND CONSUMER  
STUDIES (FACS)**

**FACS 50 3.0 units**

**Consumer Awareness**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course covers personal finance, debt reduction, and investment for individuals and families. Topics include monthly budgeting for food, clothing, housing, transportation, health care, investing and insurance. Additional topics that will be examined are short-term and long-term financial goals related to savings, investments, insurance and wills, and consumer rights and responsibilities. This course is applicable for personal and professional use.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FACS 64 3.0 units**

**Life Management**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course provides individuals with skills for understanding and using resources for effective functioning now and in the future. Major topics include steps in goal setting; problem solving and value clarifications; time, energy, stress, and conflict management; education and career planning; effect of

cultural forces and future trends on goals, values, standards, and time management.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FACS 211A 3.0 units**

**College & Career Opportunities for Women**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed for men and women. Topics include a study of gender roles and examines personal development and the educational and career opportunities available. The course focuses on self assessment, goal planning and personal vision.

**FACS 211B 3.0 units**

**College & Career Opportunities for Women**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed for men and women. Topics include a study of gender roles, personal potential and educational and career opportunities available. Skills, experience and educational requirements for specific careers will be discussed. Resume writing and interview techniques are included.

**FASHION (FD)**

**FD 3 2.0 units**

**Intro to Careers in Design/Merchandising**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course surveys the fashion industry and related occupations emphasizing employment opportunities, personal qualifications and skills required for employment.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 5 2.0 units**

**Intro/Manufacturing for Design/Merchan**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course serves as an introduction to garment manufacturing in the apparel industry; from the design concept through sourcing and pricing to the production of a clothing line. The course is required for fashion design and fashion merchandising majors.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 9 3.0 units**

**Clothing Selection**

3.0 hours lecture

Grading: letter grade or pass/no pass

Apparel selection for the individual and family based on aesthetic guidelines, cultural influences and consumer needs.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 10 (CAN FCS 6) 3.0 units**

**Textile Fibers and Fabrics**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a study of textile fibers and fabrics, their production/development, environmental impact, selection, use and care of wearing apparel and home furnishings. The course also covers current and future

textile production and how appropriate performance characteristics are incorporated into materials and products. This course is required for all Fashion Design and Fashion Merchandising majors.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FD 20 (CAN FCS 22) 3.0 units**

**Introduction to Fashion Merchandising**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course explains and illustrates the scope of the fashion industry, its value, development and job potential. Included is an overview of the current content of Fashion courses offered at LBCC and their interrelationship.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 22A 1.5 units**

**Merchandising for Profit I**

1.5 hours lecture

Recommended Preparation: FD 20

Grading: letter grade or pass/no pass

This course covers the calculation, interpretation and analysis of the profit and loss statement. Basic pricing and repricing of merchandise and the importance of markup to profitable merchandising is explained and discussed. The course is typically offered for 9 weeks.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 22B 1.5 units**

**Merchandising for Profit II**

1.5 hours lecture

Recommended Preparation: FD 20

Grading: letter grade or pass/no pass

This course emphasizes quantitative merchandising techniques as applied to inventory and dollar control, discounts, dating procedures and shipping terms. The course is typically offered for 9 weeks.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 23 3.0 units**

**Fashion/Merchandise Buying**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to provide the knowledge of the functions of buying merchandise for retail or wholesale businesses. It is required for all Fashion Merchandising Majors.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 24AB 1.5 units**

**Beginning Sewing**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course covers the construction of simple garments using basic techniques of clothing construction. Principles and methods related to constructing both woven and knit fabrics will be covered.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 25AB 1.5 units**

**Intermediate Sewing**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course focuses on intermediate clothing construction techniques as they apply to both woven and knit fabrics. Typical projects include a tailored shirt or blouse, fitted slacks with a waistband and knit shirts with neckline variations.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 26AB 2.0 units**

**Advanced Sewing**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: One semester of FD 24AB and FD 25AB

Grading: letter grade or pass/no pass

This course uses advanced construction techniques in working with complex patterns and difficult fabrics. The student must consider proper selection of line and design for his/her figure, as well as fabric and equipment for professional clothing construction.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 27AB 1.5 units**

**Production Sewing**

1.0 hour lecture, 2.0 hours laboratory

Recommended Preparation: FD 24AB

Grading: letter grade or pass/no pass

This course focuses on the principles and methods of stitching and garment construction on power industrial machines as applied to the production methods of the garment manufacturing industry. Occupational certificate is awarded upon completion of eight units.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 29AB 2.0 units**

**Tailoring**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course covers the principles of tailoring techniques and finishes as applied to men's or women's clothing.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 32 3.0 units**

**History of Fashion**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a survey of the evolution of clothing styles from the ancient Egyptian to the present time period. Content includes the importance of costume as a social record and how costume has influenced lifestyle, culture and contemporary fashions. The course emphasizes costume, its effects and relationships to political, social and economic conditions.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 36A 1.5 units**

**Pattern Drafting I: Basic Block**

1.0 hour lecture, 1.5 hours laboratory

Recommended Preparation: FD 24AB or Beginning sewing skills

Grading: letter grade or pass/no pass

This is a beginning course in pattern drafting. The students will develop a basic block pattern for the commercial dress form or individual figure.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 36B 1.5 units**

**Pattern Drafting II: Pattern Manipulation**  
 1.0 hour lecture, 1.5 hours laboratory  
 Recommended Preparation: FD 36A  
 Grading: letter grade or pass/no pass  
 This is an intermediate course in the manipulation of the basic blocks drafted for commercial dress forms or individual figure.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 37A 1.5 units**

**Pattern Draping I: Basic Sloper**  
 1.0 hour lecture, 1.5 hours laboratory  
 Grading: letter grade or pass/no pass  
 This is a beginning course which includes freehand methods of pattern making and creating the basic sloper in muslin on dress forms. Each muslin is turned into a paper pattern, cut and constructed to produce the finished garment.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 37B 1.5 units**

**Pattern Draping II: Sloper Manipulations**  
 1.0 hour lecture, 1.5 hours laboratory  
 Recommended Preparation: FD 37A  
 Grading: letter grade or pass/no pass  
 This is an intermediate course in the freehand methods (draping) of manipulating a basic sloper to create finished designs. Each muslin is turned into a paper pattern, cut and constructed to produce a finished garment.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 38A 3.0 units**

**Fashion Design I**  
 2.0 hours lecture, 3.0 hours laboratory  
 Recommended Preparation: FD 36A and FD 36B, FD 24AB and one semester of FD 214AB.  
 Grading: letter grade or pass/no pass  
 This advanced course provides the opportunity for students to design, illustrate, pattern draft and construct full-scale sample designs for a portfolio or fashion showing.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 38B 3.0 units**

**Fashion Design II**  
 2.0 hours lecture, 3.0 hours laboratory  
 Recommended Preparation: FD 37B and FD 24AB and one semester of FD 214AB.  
 Grading: letter grade or pass/no pass  
 This is an advanced course that provides an opportunity for students to design, illustrate, drape and construct full scale sample designs for a portfolio or fashion showing.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 38C 3.0 units**

**Fashion Design III**  
 2.0 hours lecture, 3.0 hours laboratory  
 Recommended Preparation: FD 38A and FD 38B  
 Grading: letter grade or pass/no pass  
 This is an advanced course that provides an opportunity to design, illustrate, draft, drape and construct full-scale designs for a portfolio or fashion showing.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 38D 3.0 units**

**Fashion Design IV**  
 2.0 hours lecture, 3.0 hours laboratory  
 Recommended Preparation: FD 38A, FD 38B, FD 38C  
 Grading: letter grade or pass/no pass  
 This advanced course provides an opportunity to design a complete line for a given season and classification (i.e., sportswear, junior market). The student will produce a line presentation board consisting of a target customer profile, price range, season, market and sketches. The student will complete production patterns, cost sheets, specification sheets, and toiles for three production quality garments.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 39A 1.0 unit**

**Garment Technical Packages**  
 1.0 hour lecture, 0.5 hour laboratory  
 Grading: letter grade or pass/no pass  
 This course covers the development of offshore technical packages to include: garment knock-offs, pattern adjustment, appropriate fit, fabric qualities and package specifications.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 40AB 1.5 units**

**Advanced and Production Pattern Drafting**  
 1.0 hour lecture, 2.0 hours laboratory  
 Recommended Preparation: FD 36B  
 Grading: letter grade or pass/no pass  
 This course surveys the problems of advanced pattern manipulation and production pattern as related to developing a commercial fit for original designs. Also covered are techniques of industrial procedures found in the garment industry and pattern grading.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 41AD 2.5 units**

**Fashion Show Production**  
 2.0 hours lecture, 2.0 hours laboratory  
 Grading: letter grade or pass/no pass  
 Students plan and implement a professional fashion production from concept to runway. Information on the details of planning, budgeting and producing fashion oriented events, plus the opportunity for "hands-on" experience in producing an actual event, will be provided. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 70AD** **1.0 unit**

**Work Experience Issues-Fashion Design**

1.0 hour lecture

Corequisite: Enrollment in FD 71AD, FD 72AD or FD 73AD. NOTE: You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course is a seminar related to work experience. Included is discussion of work experience objectives, career goals, employment search, communication skills and problem solving. Creation of resumes and cover letters will be covered and completed. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 71AD** **1.0 unit**

**Work Experience-Fashion Design**

4.1 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course involves vocational learning experiences through employment (on-the-job, paid or non paid) directly related to the industry. This course may be repeated 4 times (semesters). This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 72AD** **2.0 units**

**Work Experience-Fashion Design**

8.3 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course is Vocational learning experiences through employment (on-the-job, paid or non paid) directly related to the industry. This course may be repeated 4 times (semesters). This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 73AD** **3.0 units**

**Work Experience-Fashion Design**

12.5 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course is Vocational learning experiences through employment (on-the-job, paid or non paid) directly related to the industry. This course may be repeated 4 times (semesters). This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FD 200** **1.0 unit**

**Fashion Prediction/Promotion: Crit View**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course presents techniques for critical viewing of fashion prediction and promotion services including services which may include Video Fashion Monthly, Video Fashion News, National Association of Mens Sportswear Buyers, California Apparel News, Daily News Record, Fashion News Report and Ready To Wear Report.

**FD 211AB** **1.0 unit**

**Textile Design: Beading**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course introduces the student to various specialty techniques in hand beading.

**FD 213AB** **1.0 unit**

**Textile Design: Hand Painting**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course demonstrates various specialty techniques in hand painting and chemical processes on textiles.

**FD 214AB** **2.0 units**

**Quick Sketch Croquis Drawing**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This beginning sketch course focuses on the skills necessary for the fashion industry. Students will learn to draw all aspects of garments on the figure and in flat technical drawings using a croquis (template). Fabrics will be rendered in color using marker techniques. The updated fashion figure proportion will be covered. Students will focus on layout of line presentation boards.

**FD 215AB** **2.0 units**

**Fashion Sketching I**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This is a beginning drawing class for both design and merchandising students which stresses the basic proportions of the female and male fashion figure. The course will cover figure proportion, body movement, action poses, head, hand, foot and leg studies, and various drawing styles and mediums for expressing the fashion figure.

**FD 216AB** **2.0 units**

**Fashion Portfolio Development**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: One semester of FD 214AB or FD 215AB

Grading: letter grade or pass/no pass

This advanced course focuses on the skills necessary to produce a well-organized and thoroughly planned portfolio to be presented on job interviews. The class emphasizes drawing the fashion figure in detailed proportion, flat technical drawings, fabric rendering and layout techniques for line presentation boards.

**FD 230AD** **0.5 unit**

**Fashion Design Laboratory**

1.5 hours laboratory

Corequisite: Concurrent enrollment in a fashion design course.

Grading: pass/no pass

This course provides the student enrolled in a Fashion Design course an opportunity for additional hours working in the Fashion Design Lab. Lab time is assigned on a space available basis. Students completing 27 hours of lab work during the semester will receive .5 unit of credit. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**FD 244AD 1.0 unit**

**Computer Patternmaking**

1.0 hour lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course is designed to provide hands-on training utilizing the latest versions of apparel pattern making software technology, such as PDS 2000 (Pattern Design System by Gerber Technology). Industry techniques and methods for creating and manipulating apparel patterns are presented.

**FD 245AD 1.0 unit**

**Computer Applications in Fashion**

1.0 hour lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course is designed to teach students to effectively use a variety of computer word processing/illustration/design programs frequently used in the Fashion Industry: Microsoft Word, Microsoft PowerPoint and Adobe Illustrator.

**FD 258AD 1.0 unit**

**Swimwear**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course instructs the student in the design, sewing, and fitting of swimwear. Special emphasis is given to patterns, stretch fabrics, bra construction and fitting issues. This class is typically taught in 9 weeks.

**FILM (FILM)**

**FILM 1 3.0 units**

**Introduction to Film**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course serves as an introduction to the evaluation of film as an art form through an analysis and appreciation of its aesthetics, history, literature, creative techniques and expression of its societies and cultures, together with its influence on twentieth century values. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 10A 3.0 units**

**Explorations in Film 1**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a survey and critical analysis of the gangster genre and/or the western genre and/or film noir and/or neo-noir films within the American film industry.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 10B 3.0 units**

**Explorations in Film 2**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a survey and critical analysis of the comedy and/or the melodrama and/or the musical films genre within the American film industry.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 10C 3.0 units**

**Explorations in Film 3**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a survey and critical analysis of the adventure and/or action and/or war films genre within the American film industry.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 10D 3.0 units**

**Explorations in Film 4**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a survey and critical analysis of the horror and/or science fiction film genre within the American film industry.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 11A 3.0 units**

**Film Art and Artists 1**

3.0 hours lecture

Grading: letter grade or pass/no pass

This class involves a survey and critical analysis of films by various film directors within the International Film Industry. It will focus on film directors looking at their films in terms of their content, plot, theme, characterization and tone as well as the screenplay. There will be lectures, screening of films and film clips, possible guest lecturers and field trips.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 11B 3.0 units**

**Film Art and Artists 2**

3.0 hours lecture

Grading: letter grade or pass/no pass

The purpose of this class is to survey and critically analyze film focusing on cinematic form including visual design, cinematography, color, sound, musical score, editing and special effects. Lectures, screening films and film clips along with possible guest lecturers and field trips will be included.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 11C 3.0 units**

**Film Art and Artists 3**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course will survey and critically analyze various cinematic genres. The focus will be on Western films, gangster films and musicals. The class will include lecture, film viewing, possible guest lecturers and possible field trips.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 11D 3.0 units**

**Film Art and Artists 4**

3.0 hours lecture

Grading: letter grade or pass/no pass

The class will survey and critically analyze the content and form of films expressing cultures other than the United States. The class will include lectures, film viewing, possible guest lecturers and possible field trips.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 20AB 3.0 units**

**Fundamentals of Film Production**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: FILM 1 (may be taken concurrently)

Grading: letter grade or pass/no pass

This course introduces the basic principles of film production, including operation of equipment and details involved in making a film from idea development to final production. The course encompasses lectures, lab workshops as well as group and individual projects.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 21AB 3.0 units**

**Intermediate Film Production**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: One semester of FILM 20AB

Grading: letter grade or pass/no pass

This class provides intermediate film production experiences for the transfer film major. It includes editing, directing, scripting and producing, with special emphasis on pre- and post-production considerations.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 35AD 4.0 units**

**Film Production Workshop**

3.0 hours lecture, 4.5 hours laboratory

Prerequisite: One semester of FILM 20AB

Grading: letter grade or pass/no pass

This is an intensive course in the complete experience of filmmaking. In a concentrated format, students will create their own films putting to practical application the fundamental techniques in all phases of motion picture production, including the creation of a story idea and script, camera operation, the use of sound, the editorial process, and techniques of picture and sound production.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FILM 60AD 1.0 unit**

**Special Projects in Film**

3.0 hours laboratory

Prerequisite: One semester of FILM 20AB

Grading: letter grade or pass/no pass

This course permits lower division students with generalized background in cinema to explore an in-depth specific aspect of cinema in theory and execution and topics not covered in other courses currently offered. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE SCIENCE (FIRE)**

**FIRE 1 3.0 units**

**Fire Protection Organization**

3.0 hours lecture

Grading: letter grade

This course will outline the components of fire protection, career opportunities in fire protection, and suppression fields. It will introduce the philosophy and history of fire protection and analyze the effects of fire losses to the community. The course will address the organization and functions of public and private fire protection services. The course will address fire departments as part of local governments including the laws and regulations affecting the fire service. This course will introduce the student to fire service nomenclature, specific fire protection functions, and the culture of the fire service. This course will introduce the students to a basic fundamental approach to fire chemistry and physics, and fire strategy and tactics.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 2 3.0 units**

**Fire Prevention Technology**

3.0 hours lecture

Grading: letter grade

This is an introductory class which outlines the history and philosophy of fire prevention, including the organization and operation of a fire prevention bureau utilizing fire prevention codes. This course also identifies fire hazards and the proper method of correction in compliance of each fire hazard. This course allows the students to identify the relationship of fire prevention with fire safety educational codes in accordance with industry standards.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 3 3.0 units**

**Fire Protection Equipment and Systems**

3.0 hours lecture

Grading: letter grade

This course provides educational information relating to the features and operations of fire detection, protection and alarm systems. This course also addresses the use, inspection and maintenance of portable fire extinguishers.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 4 3.0 units**

**Building Construction**

3.0 hours lecture

Grading: letter grade

This course will cover the components of building construction methods which are relevant to firefighter safety. The components of building design and methods of construction of structures are known to be key factors when inspecting buildings, preplanning fire operations and operating at fire scenes. The development and evolution of building and fire codes will be analyzed and compared to previous fires which have occurred in residential, commercial and industrial occupied structures.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 5 3.0 units**

**Fire Behavior and Combustion**

3.0 hours lecture

Grading: letter grade

This course will present the theory and fundamentals of how and why fires start, and the factors which affect the spread of fires. A study of the basic fundamentals of fire chemistry and their physical components will be presented and discussed. In addition, an analysis of fires' characteristics and the effects of extinguishing agents and fire management methods are studied.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 6A 2.0 units**

**Fire Command 1A**

2.2 hours lecture

Grading: letter grade

This course is a seminar for certified fire officer candidates. It is the first in a series of State Board Fire Services accredited courses in fire command. The course provides fire company officers with information and experience in command and control techniques. It is designed to emphasize decision making, command authority, preplanning and training requirements for effective performance as an officer. Fire Command 1A is one of eight courses required for certification as a fire officer.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 6B 2.0 units**

**Fire Command 1B**

2.2 hours lecture

Grading: letter grade

This course is the second in a series of eight State Board of Fire Services accredited courses in fire command. The course provides fire company officers with information and experience in command and control techniques used at the scene of a hazardous material emergency. The course emphasizes decision making, command authority and the preplanning and training requirements for effective performance as an officer. Students must attend each day and pass a state-mandated test for course credit.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 7A 2.0 units**

**Fire Prevention Officer 1A**

2.2 hours lecture

Grading: letter grade

This course is designed for certified fire fighters. The class provides information on fire prevention organization, laws, regulations and standards, inspection procedures and fire hazards. This course meets the Fire Officer 1 requirements established by the State Board of Fire Services.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 7B 2.0 units**

**Fire Prevention Officer 1B**

2.2 hours lecture

Grading: letter grade

This course covers the Uniform Fire Code, fire prevention aspects associated with hazardous chemicals, compressed gases and combustible solids, explosives and blasting agents, flammable and combustible liquids, utility of fire protection systems

and appliances. The course meets the Fire Officer 1 requirements established by the State Board of Fire Services.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 7C 2.0 units**

**Fire Prevention Officer 1C**

2.2 hours lecture

Grading: letter grade

This course covers the physical properties of flammable liquids and gases; the outside storage and handling of bulk flammables and gases; regulations and procedures for the installation of storage tanks and containers; regulations relative to the transportation of flammable liquids and gases; and procedures for controlling compressed and liquefied gas leaks. The course is one of several that lead to Fire Prevention Officer 1 Certification.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 10A 2.0 units**

**Fire Instructor 1A**

2.2 hours lecture

Grading: letter grade

This course is designed to prepare Fire Service personnel to become fire instructors. This is one of the State Board of Fire Services accredited courses and applies to California Fire Service Training and Educational System certifications as a California Certified Fire Instructor. Topics covered include instructional techniques, lesson plan development, performance goals, evaluation techniques, instructor responsibilities, the learning process, instructional aids and training records.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 10B 2.0 units**

**Fire Instructor 1B**

2.2 hours lecture

Grading: letter grade

This course is a seminar on fire service training techniques, emphasizing how to teach technical skills and evaluate teaching. The course meets Fire Officer 1 requirements established by the State Board of Fire Services.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 16A 2.0 units**

**Fire Investigator 1A**

2.2 hours lecture

Grading: letter grade

This course is a seminar for certified fire fighters. It provides information on fire origin and cause, evidence preservation, prosecution of arson cases, maintaining records and dealing with special arson and investigation problems. The course meets Fire Officer 1 requirements established by the State Board of Fire Services.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*



<p><b>FIRE 16B</b> <span style="float: right;"><b>2.0 units</b></span>  <b>Fire Investigator 1B</b>                      2.2 hours lecture                      Grading: letter grade                      This course is a seminar for certified fire fighters. It provides a summary of state laws, legal principles, terms, codes and methods relative to fire investigations. The course provides information necessary to conduct an investigation and present a case in court. The course meets Fire Officer 1 requirements established by the State Board of Fire Services.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>FIRE 42B</b> <span style="float: right;"><b>2.0 units</b></span>  <b>Fire Management 2B</b>                      2.2 hours lecture                      Grading: letter grade                      This course is designed to provide insight into the cyclical nature of budgeting and financial management. The course covers the essential elements of financial planning, budget preparation, budget justification and budget controls.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>
<p><b>FIRE 26A</b> <span style="float: right;"><b>2.0 units</b></span>  <b>Fire Command 2A</b>                      2.2 hours lecture                      Grading: letter grade                      This course prepares the fire officer to use management techniques and the Incident Command System when commanding multiple alarms or large suppression forces. The course meets the requirements of the California State Fire Marshal.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>FIRE 53</b> <span style="float: right;"><b>3.0 units</b></span>  <b>Fire Hydraulics</b>                      3.0 hours lecture                      Grading: letter grade                      This course provides a study of applied math and formula calculations of hydraulics in conjunction with the procedures of the fire service industry, and includes the application of mental hydraulic calculations. The course will introduce students to basic components required when utilizing water supplies methods and procedures.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>
<p><b>FIRE 26B</b> <span style="float: right;"><b>2.0 units</b></span>  <b>Fire Command 2B</b>                      2.2 hours lecture                      Grading: letter grade                      This course prepares fire officers to manage a serious hazardous materials incident. The course includes areas of discussion on information and data bases; organizations, agencies and institutions involved in hazardous materials response and research; planning for a community's hazardous materials problems; legislation, litigation and liabilities of hazardous materials responses. The course meets the requirements of the California State Fire Marshal's Office.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>FIRE 54</b> <span style="float: right;"><b>3.0 units</b></span>  <b>Hazardous Materials 1</b>                      3.0 hours lecture                      Grading: letter grade                      This course is a study of basic fire chemistry and physics. A variety of topics will be addressed, including problems of flammability encountered by firefighters during fire suppression activities. Topics that will be examined are the dynamics associated during fire suppression activities involving fuels and chemical oxidizers in conjunction with hazardous materials during storage and transport.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>
<p><b>FIRE 40</b> <span style="float: right;"><b>2.0 units</b></span>  <b>Fire Management 1</b>                      2.2 hours lecture                      Grading: letter grade                      This course covers the role of the fire manager, proper application of management skills, organizational behavior and management concepts. It meets Fire Officer 1 requirements established by the State Board of Fire Service.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>FIRE 57</b> <span style="float: right;"><b>3.0 units</b></span>  <b>Introduction to Fire Tactics &amp; Strategy</b>                      3.0 hours lecture                      Grading: letter grade                      This is an introductory course which outlines the principles of fire ground control through the utilization of personnel, equipment and extinguishing agents on the fire ground or emergency incident. This course is the backbone of the Incident Command System, along with the theory of the Rapid Intervention Crew and Standardized Emergency Management System. These topics will be presented as theories and principles with emphasis on practical and appropriateness of key academic strategies. This course provides group interactions and individualized instruction to develop a support system and a mentor experience with the instructor.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>
<p><b>FIRE 42A</b> <span style="float: right;"><b>2.0 units</b></span>  <b>Fire Management 2A</b>                      2.2 hours lecture                      Grading: letter grade                      This course provides fire service personnel with information on how to make the transition from supervisor to manager. It offers sound management principles in preparation for more intensified training in a specific discipline. Topics of discussion include internal and external influences, personality traits of fire fighters, managing human relations, group dynamics, and conflict solution.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>FIRE 58</b> <span style="float: right;"><b>3.0 units</b></span>  <b>Intro to Fire Company Administration</b>                      3.0 hours lecture                      Grading: letter grade                      This is an introductory level class which outlines a review of fire department organization and administration. Students will identify planning, organizing and supervising within the Fire department occupation, with</p>

an emphasis on the first line company officer's role, as a Fire Captain.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 60 3.0 units**

**Fire Investigation 1**

3.0 hours lecture

Grading: letter grade

This course outlines the principles of fire investigations, and the theories on determining the causes of fires, including accidental, suspicious and incendiary. This course also will introduce the students to the definition of arson and incendiary type of fires, including mock court preparation and testimony.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 61 3.0 units**

**Rescue Practices**

3.0 hours lecture

Grading: letter grade

This course is a study of rescue problems and techniques, including the use of rescue equipment, care of childbirth victims and newborns, the effects of toxic gases and chemicals, radiation hazards, respiration and resuscitation, and extrication.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 62 3.0 units**

**Fire Apparatus and Equipment**

3.0 hours lecture

Grading: letter grade

This course focuses on a study of mobile and fixed fire apparatus designs, with a review of their perspective construction specifications and performance capabilities. The course outlines the effective deployment, utilization and performance of Fire apparatuses and equipment under emergency conditions, when used for firefighting purposes.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 64 3.0 units**

**Hazardous Materials 2**

3.0 hours lecture

Grading: letter grade

This course is a continuing study of hazardous materials addressing the identification of explosives, toxic substances and radioactive materials in storage and in transit.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 65 3.0 units**

**Fundamentals of Fire Safety**

3.0 hours lecture

Grading: letter grade

This course will be appropriate for students who wish to pursue a career in a paid or volunteer fire department. A variety of topics will be addressed, including information on current techniques and prevention of injuries while promoting safe routine and emergency fire operations.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FIRE 203 1.0 unit**

**Fire Tools, Equipment & Related Tech**

1.0 hour lecture, 1.0 hour laboratory

Grading: pass/no pass

This course is a hands-on tool class to assist fire science students in recognizing and using the hand and power tools used in the fire fighter occupation. The course emphasis is on safety procedures and efficient use of tools and equipment.

**FIRE 240AD 0.5 unit**

**Firefighter I Physical Agility**

0.2 hour lecture, 0.9 hour laboratory

Grading: letter grade or pass/no pass

This course is designed to assess physical agility requirements for the fire service. It includes a review of nutritional facts and physical training principles. The course meets the statewide standards of the CalChiefs organization.

**FIRE 242C 2.0 units**

**Fire Management 2C**

2.2 hours lecture

Grading: letter grade

This course is designed to provide insight into personnel and labor relations. The course meets California State Fire Marshal certification requirements. It is designed as in-service training for fire professionals.

**FIRE 245 2.0 units**

**Marine Safety Academy**

2.0 hours lecture, 3.5 hours laboratory

Grading: pass/no pass

This is a basic training program for non-career lifeguards which is approved by the United States Lifesaving Association (USLA). Candidates must qualify for entrance by competing in a rigorous testing process which includes swimming, run-swim-run, and an oral interview. The academy prepares candidates to become non-career ocean lifeguards and includes topics and training in lifeguard tactics, operations, first aid, first responder, hazardous materials, cardiopulmonary resuscitation, mechanical resuscitators, resuscitators, rescue buoys, rescue boards, physical training in timed swims, runs, and paddling.

**FIRE 250 9.0 units**

**Basic Fire Service Training**

15.5 hours lecture, 7.7 hours laboratory

Grading: pass/no pass

This course is an orientation to fire service organization, practices, procedures, tactics and duties, basic training in the use of fire suppression equipment, first aid and fire prevention procedures. The course meets State Fire Marshal standards.

**FIRE 271AD 2.0 units**

**Work Experience — Fire Science**

1.0 hour lecture, 4.1 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

**FIRE 272AD 3.0 units**

**Work Experience — Fire Science**

1.0 hour lecture, 8.3 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

**FIRE 273AD 4.0 units**

**Work Experience — Fire Science**

1.0 hour lecture, 12.5 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student

**FIRE 298A 1.0 unit**

**EXP Fire Tools, Equipment and Related Tech**

0.7 hour lecture, 1.1 hours laboratory

Grading: letter grade

This course is a hands-on tool class to assist fire science students in recognizing and using the hand and power tools used in the fire fighter occupation. The course emphasis is on safety procedures and efficient use of tools and equipment.

**FIRE 303 1.0 unit**

**Intro to Fire Company Administration**

2.2 hours lecture

Grading: pass/no pass

This course is designed for in-service fire personnel and presents a total management system, including firefighting techniques, strategies and tactics of command.

**FIRE 353 1.0 unit**

**Fire Hydraulics/Driver Operator 1B**

2.2 hours lecture

Grading: pass/no pass

This course is a study of fire hydraulics as related to apparatus and equipment, including water supplies, services, operations and techniques. The course is designed for in-service personnel training to meet requirements for certification by the state fire marshal.

**FIRE 354 1.0 unit**

**Hazmat/First Responder**

2.2 hours lecture

Grading: pass/no pass

This course presents first responder techniques associated with hazardous materials. The course meets certification standards of the California Specialized Training Institute (CSTI) and the Industrial Emergency Council (IEC).

**FIRE 354M1 1.5 units**

**Hazmat/First Responder II**

1.5 hours lecture

Grading: pass/no pass

This course covers first responder techniques associated with hazardous materials. The course is designed for in-service training to meet state and federal Occupational Safety and Health Administration (OSHA) standards.

**FIRE 361 1.0 unit**

**Rescue Practices/Disaster Preparedness**

1.1 hours lecture

Grading: pass/no pass

This course covers rescue problems and techniques related to earthquakes, emergency rescue, care of victims, evacuation procedures and steps for earthquake preparedness and survival. The course is designed for in-service training for fire personnel.

**FIRE 362 1.0 unit**

**Apparatus & Equipment-Operator 1A**

2.2 hours lecture

Grading: pass/no pass

This course is a study of fire apparatus and related operating principles and procedures. The course is designed for in-service training to meet requirements for certification by the California State Fire Marshal.

**FIRE 400A 1.0 unit**

**ST Fire Science**

1.0 hour lecture, 1.0 hour laboratory

Grading: pass/no pass

This course is a series of seminars designed to provide maintenance of basic skills and/or to update knowledge of new technology in the fire service expected of all fire service personnel. Topics will be offered to meet the interests and needs of fire protection specialists. Modules are designed to meet the criteria specified in National Fire Protection Association (NFPA) standards. This is a special topics course. This course's subject matter will vary by semester. Please refer to the schedule of classes for a particular semester's topic. This course may be repeated for credit as topics change. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**FIRE 400B 2.0 units**

**ST Fire Science**

2.0 hours lecture, 2.0 hours laboratory

Grading: pass/no pass

This course is a series of seminars designed to provide maintenance of skills and/or to update knowledge of new technology in the fire service expected of selected fire service personnel, based on rank and station assignment. Topics will be offered to meet the interests and needs of fire personnel. Modules are designed to meet criteria specified in National Fire Protection Association (NFPA) standards. This is a special topics course. This course's subject matter will vary by semester. Please refer to the schedule of classes for a particular semester's topic. This course may be repeated for credit as topics change. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**FIRE 400C 3.0 units**

**ST Fire Science**

3.0 hours lecture, 3.0 hours laboratory

Grading: pass/no pass

This course is a series of seminars designed to provide maintenance of skills learned or to update knowledge of new technology in the fire service expected of selected fire service personnel, based on rank and station assignment. Topics will be offered to meet the interests and needs of fire personnel. Modules are designed to meet the criteria specified in the National Fire Protection Association (NFPA) standards. This is a special topics course. This course's subject matter will vary by semester. Please refer to the schedule of classes for a particular semester's topic. This course may be repeated for credit as topics change. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**FIRE 400D 3.0 units**

**ST Fire Science**

2.0 hours lecture, 3.0 hours laboratory

Grading: pass/no pass

This course is a series of seminars designed to provide maintenance of skills learned and/or to update knowledge of new technology in the Fire Service expected of selected fire service personnel based on rank and station assignment. Topics will be offered to meet the interests and needs of fire, safety and marine personnel. Representative topics include: specialty areas of fire service, analyzing and evaluating fire, safety or marine operations and addressing personnel management issues. Modules are designed to meet criteria specified in the National Fire Protection Association (NFPA) and the Marine Safety Association. This is a special topics course. This course's subject matter will vary by semester. Please refer to the schedule of classes for a particular semester's topic. This course may be repeated for credit as topics change.

**FIRE 400E 3.5 units**

**ST Fire Science**

2.0 hours lecture, 4.8 hours laboratory

Grading: pass/no pass

This course is a series of seminars designed to provide a maintenance of skills learned or to update knowledge of new technology in the Fire Service expected of selected fire service personnel based on rank and station assignment. Topics will be offered to meet the interests and needs of fire, safety and marine personnel. Representative topics include: specialty areas of fire service, analyzing and evaluating fire, safety or marine operations and addressing personnel management issues. Modules are designed to meet criteria specified in the National Fire Protection Association (NFPA) and the Marine Safety Association. This is a special topics course. This course's subject matter will vary by semester. Please refer to the schedule of classes for a particular semester's topic. This course may be repeated for credit as topics change.

**FIRE 400F 5.0 units**

**ST Fire Science**

3.0 hours lecture, 6.4 hours laboratory

Grading: pass/no pass

This is a series of seminars designed to provide maintenance of skills learned or to update knowledge of new technology in the Fire Service expected of selected fire service personnel based on rank and station

assignment. Topics will be offered to meet the interests and needs of fire, safety and marine personnel. Representative topics include: specialty areas of fire service, analyzing and evaluating fire, safety or marine operations and addressing personnel management issues. Modules are designed to meet criteria specified in the National Fire Protection Association (NFPA) and the Marine Safety Association. This is a special topics course. This course's subject matter will vary by semester. Please refer to the schedule of classes for a particular semester's topic. This course may be repeated for credit as topics change.

***FLORAL DESIGN (FLO)***

**FLO 286A 2.0 units**

**Introduction to Floral Design: Fall Flowers**

1.5 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course covers the elements and principles of design, color coordination, basic floral arranging and basic corsage construction. Nomenclature of flowers and foliage and their uses are included. FLO 286A covers fall flowers; FLO 286B covers spring flowers.

**FLO 286B 2.0 units**

**Introduction to Floral Design: Spring Flowers**

1.5 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course covers the elements and principles of design, color coordination, basic floral arranging and basic corsage construction. Nomenclature of flowers and foliage and their uses are included. FLO 286A covers fall flowers; FLO 286B covers spring flowers.

**FLO 287A 2.0 units**

**Intermediate Floral Design-Wedding**

1.5 hours lecture, 1.5 hours laboratory

Recommended Preparation: One semester of FLO 286A or FLO 286B

Grading: letter grade or pass/no pass

This is one of three courses that constitute a comprehensive overview of techniques used at an intermediate level within the floral industry. This hands-on, step-by-step course covers each phase of wedding flowers: design, mechanics and construction of floral products, marketing and selling flowers for church, hotel and home/garden wedding and reception setup.

**FLO 287B 2.0 units**

**Intermediate Floral Design-Sympathy**

1.5 hours lecture, 1.5 hours laboratory

Recommended Preparation: One semester of FLO 286A or FLO 286B

Grading: letter grade

This is one of three courses which constitute a comprehensive overview of techniques used at an intermediate level within the floral industry. Complete instructions on the art and science of designing sympathy flowers are included: from the elaborate casket to simple home tributes. The course focuses on mechanics and construction for efficiency in design.

**FLO 287C 2.0 units**

**Intermediate Floral Design-Banquet Holiday**  
 1.5 hours lecture, 1.5 hours laboratory  
 Recommended Preparation: One semester of FLO 286A or FLO 286B.  
 Grading: letter grade or pass/no pass  
 This is one of three courses that constitute a comprehensive overview of techniques used at an intermediate level within the floral industry. This course covers skills needed to successfully produce holiday designs and mass production. It also includes indoor, outdoor and poolside events, banquets, parties or related party work.

**FLO 288 2.0 units**

**Advanced Floral Design**  
 1.5 hours lecture, 1.5 hours laboratory  
 Recommended Preparation: FLO 286A-B and FLO 287A-B-C  
 Grading: letter grade or pass/no pass  
 This course provides students with the techniques for the planning, design and execution of intricate and creative floral arrangements. Topics include terminology, application and methods for creating designs in less time for profit. This course is required for students in the Floral Design Certificate Program.

**FLO 289 3.0 units**

**Applied Floral Shop Operation**  
 3.0 hours lecture  
 Grading: letter grade or pass/no pass  
 This course presents techniques for starting a retail or home-based floral business. Topics range from licensing procedures to shop layout and day-to-day operations, including the handling of perishable floral materials. Policies, pricing, personnel and selling techniques are examined. This course is required for Floral Design Majors.

**FLO 290 0.5 unit**

**Floral Creativity and Competition**  
 0.5 hour lecture, 1.0 hour laboratory  
 Recommended Preparation: Intermediate floral design skills.  
 Grading: letter grade or pass/no pass  
 Individualized, non-standard, contemporary flower arrangements will be created emphasizing the use of the student's own imagination and creative talent. This course will broaden the student's design experience, personally expand and develop beyond the student's present personal creativity potential. The course will enhance the student skills to prepare for competition, including emphasis in design speed. A field trip to the Cal State Floral Association Top Ten Competition is offered for competing or observing.

**FOOD AND NUTRITION (F\_N)**

**F\_N 20 (CAN FCS 2) 3.0 units**

**Nutrition and Life**  
 3.0 hours lecture  
 Grading: letter grade or pass/no pass  
 This course is an introduction to the basic physiological, psychological, social and biochemical principles related to human nutrition. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please

see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**F\_N 21 (CAN FCS 8) 4.0 units**

**Food Selection and Meal Preparation**  
 3.0 hours lecture, 3.0 hours laboratory  
 Grading: letter grade or pass/no pass  
 This course introduces the knowledge and skills related to food selection and preparation, food product standards and factors contributing to the quality of prepared food.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**F\_N 26 1.0 unit**

**Nutrition for the Active Person**  
 1.0 hour lecture  
 Grading: letter grade or pass/no pass  
 This course is designed to assist the athlete and those who are physically active in examining his or her special nutritional needs based upon current research. Topics that are emphasized in the course include the nutritional needs of the athlete versus the non-athlete, improving athletic performance through nutrition and how to evaluate athletic diets such as high protein diets, carbohydrate loading and pre-game meals.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**F\_N 224 3.0 units**

**Sanitation, Safety and Equipment**  
 3.0 hours lecture  
 Grading: letter grade or pass/no pass  
 This course covers the application of basic safety and sanitation principles for a food service operation, the criteria used to evaluate equipment design and how to write equipment specifications.

**F\_N 225 3.0 units**

**Intro to Food Service/Work Organizations**  
 3.0 hours lecture  
 Grading: letter grade or pass/no pass  
 This course covers the scope, organization, management and administration of a food service system operating within a health care, community or school feeding program. Topics include facility layout and design, motion economy, task analysis and method improvement, and the education and experience necessary for employment.

**F\_N 227 3.0 units**

**Supervision and Training Techniques**  
 3.0 hours lecture  
 Grading: letter grade or pass/no pass  
 This course trains students for supervisory positions in food service operations related to health care facilities. Emphasis will include staff selection, training, presentation techniques, communication and staff development.

**F\_N 228 3.0 units**

**Food Production Management**  
 3.0 hours lecture, 0.2 hour supplemental learning  
 Grading: letter grade or pass/no pass  
 This course introduces management techniques related to food service operations. Menu planning, production scheduling, equipment utilization, staffing and service systems are presented in this course. Students are

required to complete 3 hours throughout the course of the semester in a Multidisciplinary Success Center to complete activities and assignments that relate specifically to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**F\_N 230AC 2.0 units**

**Clinical Field Experience I**

1.0 hour lecture, 5.0 hours laboratory

Grading: pass/no pass

This course provides supervised clinical field experience in health care facilities for Dietetic Service Supervisor and Nutrition Assistant program students. Students learn and practice the skills necessary to coordinate a health care food service facility.

**F\_N 231 3.0 units**

**Menu Planning and Food Purchasing**

3.0 hours lecture

Grading: letter grade

This course covers the planning and design of health care institutional menus. Topics include: nutritional adequacy, psychological needs, types of operation, equipment and skill of personnel. Purchasing and costing of food, analysis of food quality, writing specifications, ordering, receiving and storing of food and supplies are also covered.

**F\_N 232 3.0 units**

**Therapeutic Diets**

3.0 hours lecture

Recommended Preparation: F\_N 20 (may be taken concurrently)

Grading: letter grade

This course presents the principles of an indication for therapeutic diets in the treatment of diseases and disorders. Course content applies to dietetics programs in hospitals, convalescent and extended care facilities.

**F\_N 233 1.0 unit**

**Special Topics-Health Care Dietetics**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course covers a variety of topics of interest to professionals in the field of health care dietetics/food and nutrition as well as nutrition/dietetics students. The latest developments and trends in the field will be addressed, such as medical nutrition therapies, nutrition care, and new products and resources. Course subject matter varies by semester; see the schedule of classes. This course may be repeated for credit as topics change.

**F\_N 234 3.0 units**

**Advanced Nutrition Care**

3.0 hours lecture

Prerequisite: F\_N 232

Grading: letter grade or pass/no pass

This course presents nutrition education principles and techniques for the individual, family and small groups in normal, modified and preventive nutrition care throughout the lifecycle. Computer applications and cultural implications are also covered.

**F\_N 235 3.0 units**

**Advanced Medical Nutrition Therapy**

3.0 hours lecture

Recommended Preparation: F\_N 232

Grading: letter grade

This course presents an advanced study of medical nutrition therapy with applications in diet counseling, menu modification, communication, documentation, education and appropriate food service delivery.

**F\_N 236 1.0 unit**

**Dietetic Seminar**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course serves as an introduction to the development of professionalism and a team concept in the dietetic health care system. The course examines financing, planning and regulating health care services related to dietetics, as well as the standards of professional responsibility and code of ethics for the profession of dietetics.

**F\_N 240AC 2.0 units**

**Clinical Field Experience II**

10.0 hour laboratory

Recommended Preparation: Two semesters of F\_N 230AC

Grading: pass/no pass

This course provides supervised clinical experience in health care facilities for students in the Nutrition Assistant Program. Students will learn and practice skills necessary to provide nutritional care services to clients in health care settings. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**F\_N 250 2.0 units**

**Nutrition for Culinary Arts**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course provides a practical approach to the application of sound nutritional practices in the food service setting. Culinary arts students and professionals will be able to incorporate healthful nutritional knowledge in their personal and professional lives. This course includes nutrition as it relates to health throughout the life cycle, menu/recipe design and modification, food product selection, and current trends in consumer preference.

**F\_N 252AD 1.5 units**

**Cake Decorating and Sugar Cookery**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

Topics in this course include the principles of sugar cookery and the appropriate use of confections in making molds and cake decorating. Various forms of cake decoration will be demonstrated and practiced by the students, using a variety of icings.

**F\_N 253 1.0 unit**

**Food Handler Certification**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course will address the required standards of sanitation and safety in the handling, preparation and serving of food to protect the public's health. Students will receive a Food Handler Certificate after passing the food handler exam given at the conclusion of the course.

This Certificate required for those working in a food service establishments and meets the California State Health Code.

**F\_N 255C 1.0 unit**

**Nutrition for Adults and Aging**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course provides the most recent information in the specific area of nutrition. Facts and fallacies and life cycle nutrition focusing on seniors are emphasized.

**F\_N 255D 1.0 unit**

**Vegetarian Lifestyle**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course provides the knowledge to plan and practice a vegetarian lifestyle and maintain optimum nutrition. Topics will include the benefits and cautions of the vegetarian diet, variations of the diet and how to combine non-meat proteins.

**F\_N 256 2.0 units**

**Weight Control & Energy Balance**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course presents techniques of long term weight control. The following areas are addressed in this course: assessment of ideal body weight, techniques of diet/behavior modification, emotional eating triggers, and principles of energy balance through the modification of diet.

**F\_N 260AD 1.5 units**

**Cultural Foods**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course explores the origins of foods, customs, nutrition and preparation of foods common to a variety of cultures. Food patterns and relationship to social customs and rituals are covered in addition to the nutrition assessment and the effects of changes of food habits.

**F\_N 261AD 1.0 unit**

**Creative Cooking**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course provides the knowledge and skills required to plan, prepare and serve nutritious, varied, palatable, attractive meals within the limitations of time, energy, equipment and budget.

**F\_N 262AD 1.5 units**

**Meal Preparation for 1 and 2 Persons**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course provides the knowledge and skills required to plan, prepare and serve nutritious meals for the single person or couple. Menu planning, recipe and food selection, healthy preparation and presentation will be covered.

**F\_N 360AD 0.5 unit**

**Cultural Foods**

0.5 hour lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course explores the origins of foods, customs, nutrition and preparation methods common to a variety of cultures. Food patterns and relationship to social

customs and rituals are covered in addition to the nutrition assessment and the effects of changes of food habits.

**F\_N 361AD 0.5 unit**

**Creative Cooking**

0.5 hour lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course provides the knowledge and skills required to plan, prepare and serve nutritious, varied, palatable, attractive meals within the limitations of time, energy, equipment and budget.

**F\_N 362AD 0.5 unit**

**Cooking for Singles**

0.5 hour lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course is designed to teach meal planning and food preparation for the single person. This course will emphasize the preparation of nutritious, convenient, economical and attractive meals.

***FOREIGN LANGUAGE, CHINESE  
(CHIN)***

**CHIN 1 (CAN CHIN2) (Part of CAN CHIN SEQ) 5.0 units**

**Elementary Chinese 1**

5.0 hours lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course introduces students to the standard Chinese language (Mandarin). Students will study grammar, vocabulary, pronunciation, and culture. They will develop elementary competency in listening, speaking, reading and writing. The course will present everyday situations and topics in the context of Chinese cultural traditions. It is not recommended for native speakers. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CHIN 2 (CAN CHIN4) (Part of CAN CHIN SEQ) 5.0 units**

**Elementary Chinese 2**

5.0 hours lecture, 1.0 hour laboratory

Prerequisite: CHIN 1

Grading: letter grade or pass/no pass

This course is the second of two beginning courses on the fundamentals of modern standard Chinese (Mandarin). It is designed to further develop students' competency in speaking, listening, reading, and writing. Topics will be placed in the contemporary context in the Chinese world. It is not recommended for native speakers. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CHIN 3** **5.0 units**  
**Intermediate Chinese**  
 5.0 hours lecture  
 Prerequisite: CHIN 2 or recent successful completion of three years of high school Chinese.  
 Grading: letter grade or pass/no pass  
 This course is an intermediate course on the fundamentals of Chinese. Students will acquire further competency in the four skills necessary for language acquisition: listening, speaking, reading and writing. Topics will be placed in the contemporary context in the Chinese world. It is not recommended for native speakers of Chinese.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**CHIN 4** **5.0 units**  
**Intermediate Chinese**  
 5.0 hours lecture  
 Prerequisite: CHIN 3 or recent successful completion of four years of high school Chinese.  
 Grading: letter grade or pass/no pass  
 This course is the second semester of an intermediate course on the fundamentals of Chinese. It continues the review of Chinese grammar, emphasizing more advanced structures. Topics include structural particles, expansion of vocabulary, development of reading and speaking abilities, and improvement of writing skills through the writing process.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FOREIGN LANGUAGE, FRENCH  
(FREN)**

**FREN 1 (CAN FREN2) (Part of CAN FREN SEQ) 5.0 units**  
**Elementary French**  
 5.0 hours lecture, 1.0 hour laboratory  
 Grading: letter grade or pass/no pass  
 This course provides an introduction to French vocabulary and grammar structures, emphasizing listening, speaking, reading, and writing, based on modern topical material. This course is not recommended for native speakers of French or for students who have recently completed one year of high school French with a grade of B or better. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FREN 2 (CAN FREN4) (Part of CAN FREN SEQ) 5.0 units**  
**Elementary French**  
 5.0 hours lecture, 1.0 hour laboratory  
 Prerequisite: FREN 1 or FREN 1A and FREN 1B or recent completion of one year of High School French.  
 Grading: letter grade or pass/no pass  
 This course is a continuation of the study of basic French vocabulary and grammar forms, emphasizing listening and speaking, reading and writing, based on modern topical material. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FREN 3 (CAN FREN8) (Part of CAN FREN SEQ) 5.0 units**  
**Intermediate French**  
 5.0 hours lecture  
 Prerequisite: FREN 2 or FREN 2A and FREN 2B or recent completion of two years of High School French.  
 Grading: letter grade or pass/no pass  
 This course consists of French grammar presentation and review. Students will also study vocabulary and idiomatic expressions based on situational dialogues, articles and readings which reflect various French-speaking cultures. There is continued listening and speaking practice, as well as development of reading and writing skills.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FREN 4 (CAN FREN10) (Part of CAN FREN SEQ) 5.0 units**  
**Intermediate French**  
 5.0 hours lecture  
 Prerequisite: FREN 3 or recent completion of three years High School French.  
 Grading: letter grade or pass/no pass  
 This course consists of a continuation of French grammar presentation and review, emphasizing more advanced structures. Students will also read, analyze and evaluate short stories and literary selections by famous Francophone authors. There will be extensive practice in spoken and written communication.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FREN 8AD** **2.0 units**  
**Spoken French**  
 3.0 hours lecture  
 Prerequisite: FREN 2 or FREN 2A and FREN 2B  
 Grading: letter grade or pass/no pass  
 This course provides an intensive study and practice in French conversation based on practical situations, French and Francophone culture, and current events.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**FREN 25A** **3.0 units**  
**Advanced French: Culture in Literature**  
 3.0 hours lecture  
 Prerequisite: FREN 4  
 Grading: letter grade or pass/no pass  
 Students explore Francophone culture via articles, essays, realia, short stories, fables, biographies, etc. The course includes grammar review stressing oral and written composition, as well as acquisition of topic-related vocabulary, to improve fluency in the target language. Outside reading and reporting in the field of study are required.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FREN 25B** **3.0 units**  
**Advanced French: History**  
 3.0 hours lecture  
 Prerequisite: FREN 25A  
 Grading: letter grade or pass/no pass  
 Students explore Francophone culture via articles, essays, realia, short stories, fables, biographies, etc. The course includes grammar review stressing oral and written composition, as well as acquisition of topic-related vocabulary, to improve fluency in the



target language. Outside reading and reporting in the field of study are required.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FREN 25C 3.0 units**

**Advanced French: Politics, Current Event**

3.0 hours lecture

Prerequisite: FREN 25B

Grading: letter grade or pass/no pass

Students explore Francophone politics and/or current events via articles, essays, realia, etc. The course includes grammar review stressing oral and written composition, as well as acquisition of topic-related vocabulary, to improve fluency in the target language. Outside reading and reporting in the field of study are required.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FREN 25D 3.0 units**

**Advanced French: Literature**

3.0 hours lecture

Prerequisite: FREN 25C

Grading: letter grade or pass/no pass

Students explore Francophone literature via short stories, fables, novels, poems, etc. The course includes grammar review stressing oral and written composition, as well as acquisition of topic-related vocabulary, to improve fluency in the target language. Outside reading and reporting in the field of study are required.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FOREIGN LANGUAGE, GERMAN  
(GER)**

**GER 1 (CAN GERM2) (Part of CAN GERM SEQ) 5.0 units**

**Elementary German**

5.0 hours lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course is an introduction to the German language and emphasizes the four skills necessary for language acquisition: listening, speaking, reading and writing. Students will learn the sound system and elementary grammatical structures to be able to communicate at a basic level. This course exposes students to everyday situations and cultural topics of the German speaking world. It is not recommended for native or near native speakers of German or students who have completed one year of high school German with a grade of B or better. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GER 2 (CAN GERM4) (Part of CAN GERM SEQ) 5.0 units**

**Elementary German**

5.0 hours lecture, 1.0 hour laboratory

Prerequisite: GER 1 or GER 1A and 1B or recent completion of one year of High School German.

Grading: letter grade or pass/no pass

This course is a continuation of the study of basic grammar forms. Emphasis is placed on vocabulary expansion for meaningful communication. The four language learning skills, listening, reading, speaking and writing, are practiced on a regular basis. This course

may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GER 3 (CAN GERM8) (Part of CAN GERM SEQ) 5.0 units**

**Intermediate German**

5.0 hours lecture

Prerequisite: GER 2 or GER 2A and GER 2B or recent completion of two years of High School German.

Grading: letter grade or pass/no pass

This course is a review of German grammar as well as an intensive study of idiomatic expressions and vocabulary based on the reading of short stories and a variety of articles and situational dialogues that reflect German culture. It focuses on the development of intermediate reading and listening comprehension as well as speaking and writing skills.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GER 3H (CAN GERM8) (Part of CAN GERM SEQ) 5.0 units**

**Honors Intermediate German**

5.0 hours lecture

Prerequisite: GER 2 or 2A and 2B or recent completion of two years of High School German and Qualification for the Honors Program.

Grading: letter grade or pass/no pass

This course is a review of German grammar as well as an intensive study of idiomatic expressions and vocabulary based on the reading of short stories and a variety of articles and situational dialogues that reflect German culture. It focuses on the development of intermediate reading and listening comprehension as well as speaking and writing skills.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GER 4 (CAN GERM10) (Part of CAN GERM SEQ) 5.0 units**

**Intermediate German**

5.0 hours lecture

Prerequisite: GER 3 or recent completion of three years of High School German.

Grading: letter grade or pass/no pass

This course is a continuation of the review of German grammar, emphasizing more advanced structures. Topics include comparison of verb tenses, expansion of vocabulary, development of reading and speaking ability, and improvement of writing skills through a guided writing process.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GER 4H (CAN GERM10) (P of CAN GERM SEQ) 5.0 units**

**Honors Intermediate German**

5.0 hours lecture

Prerequisite: GER 3 or recent completion of three years of High School German and Qualification for the Honors program.

Grading: letter grade or pass/no pass

This course is a continuation of the review of German grammar, emphasizing more advanced structures. Topics include comparison of verb tenses, expansion of vocabulary, development of reading and speaking

ability, and improvement of writing skills through a guided writing process.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GER 8AD 2.0 units**

**Spoken German**

3.0 hours lecture

Prerequisite: GER 2 or GER 2A and 2B

Grading: letter grade or pass/no pass

This course is designed to improve comprehension, structure, oral expression and fluency in German used in travel, in the home, in school and in business. This course emphasizes vocabulary, idioms and language patterns fundamental to an active use of German.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**GER 25A 3.0 units**

**Advanced German: Culture in Literature**

3.0 hours lecture

Prerequisite: GER 4

Grading: letter grade or pass/no pass

This course is a survey course that explores the relationship between culture and literature. Students review literary works of authors from Germany, Switzerland and Austria and study the social-historical evolution of cultural norms as portrayed in literature.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GER 25B 3.0 units**

**Advanced German: History**

3.0 hours lecture

Prerequisite: GER 4

Grading: letter grade or pass/no pass

This course is a survey course that explores the historical and cultural evolution of the German-speaking countries from the origins of Germany, Austria, and Switzerland to modern times.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GER 25C 3.0 units**

**Advanced German: Politics, Current Event**

3.0 hours lecture

Prerequisite: GER 4

Grading: letter grade or pass/no pass

This course focuses on the current events of the German speaking world. The course includes topics such as politics, socio-cultural studies, sports events, and national and regional celebrations.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GER 25D 3.0 units**

**Advanced German: Literature**

3.0 hours lecture

Prerequisite: GER 4

Grading: letter grade or pass/no pass

This course is a literature survey course of major literary works from Germany, Austria, and Switzerland. The course covers basic concepts of literary theory and literary criticism in German.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FOREIGN LANGUAGE, ITALIAN  
(ITAL)**

**ITAL 1 (CAN ITAL 2) 5.0 units**

**Elementary Italian**

5.0 hours lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course introduces the students to the four skills necessary for language acquisition: listening, speaking, reading and writing. Students will learn the sound system and basic grammatical structures. This course exposes students to everyday situations and cultural topics of the Italian culture. It is not recommended for native speakers of Italian nor students who have completed one year of high school Italian with a grade of B or better. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ITAL 2 (CAN ITAL 4) 5.0 units**

**Elementary Italian**

5.0 hours lecture, 1.0 hour laboratory

Prerequisite: ITAL 1 or ITAL 1A and 1B or recent completion of one year of High School Italian.

Grading: letter grade or pass/no pass

This course is a continuation of the study of basic Italian vocabulary and grammar forms, emphasizing listening and speaking, reading and writing, based on modern topical material.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ITAL 3 5.0 units**

**Intermediate Italian**

5.0 hours lecture

Prerequisite: ITAL 2 or ITAL 2A and ITAL 2B

Grading: letter grade or pass/no pass

This course is an intermediate course on the fundamentals of modern Italian. Students will acquire further competency in the four skills necessary for language acquisition: listening, speaking, reading and writing. Topics will be placed in the contemporary context in the Italian world. It is not recommended for native speakers of Italian.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**ITAL 4 5.0 units**

**Intermediate Italian**

5.0 hours lecture

Prerequisite: ITAL 3 or recent successful completion of three years of high school Italian.

Grading: letter grade or pass/no pass

This course continues the review of Italian grammar, emphasizing more advanced structures. Topics include comparison of verb tenses, expansion of vocabulary, development of reading and speaking ability and improvement of writing skills through the writing process.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FOREIGN LANGUAGE, JAPANESE  
(JAPAN)**

**JAPAN 1 (CAN JAPN2) (Pt of CAN JAPAN SEQ) 5.0 units**

**Elementary Japanese**

5.0 hours lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course introduces the students to the four skills necessary for language acquisition: listening, speaking, reading and writing (hiragana and katakana systems). Students will learn the sound system and basic grammatical structures. It presents everyday situations and topics of the Japanese culture. It is not recommended for native speakers of Japanese nor students who have completed two years of high school Japanese with a grade of B or better. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**JAPAN 2 (CAN JAPN4) (Pt of CAN JAPAN SEQ) 5.0 units**

**Elementary Japanese**

5.0 hours lecture, 1.0 hour laboratory

Prerequisite: JAPAN 1 or JAPAN 1A and 1B or recent completion of two years of High School Japanese.

Grading: letter grade or pass/no pass

This course is the second of two beginning courses on the fundamentals of modern Japanese. Students will acquire further competency in the four skills necessary for language acquisition: listening, speaking, reading and writing. This course introduces kanji writing system. It is not recommended for native speakers of Japanese.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**JAPAN 3 5.0 units**

**Intermediate Japanese**

5.0 hours lecture

Prerequisite: JAPAN 2 or recent successful completion of two years of high school Japanese.

Grading: letter grade or pass/no pass

This course is an intermediate course on the fundamentals of Japanese. Students will acquire further competency in the four skills necessary for language acquisition: listening, speaking, reading and writing. Topics will be placed in the contemporary context in the Japanese world. It is not recommended for native speakers of Japanese.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**JAPAN 4 5.0 units**

**Intermediate Japanese**

5.0 hours lecture

Prerequisite: Japan 3 or recent successful completion of three years of high school Japanese.

Grading: letter grade or pass/no pass

This course is the second semester of intermediate Japanese. It continues the review of Japanese grammar, emphasizing more advanced structures, and introducing 150 additional kanji characters. Topics include expansion of vocabulary, development of reading and speaking ability and improvement of writing skills through the writing process.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FOREIGN LANGUAGE, SPANISH  
(SPAN)**

**SPAN 1 (CAN SPAN2) (Part of CAN SPAN SEQ) 5.0 units**

**Elementary Spanish**

5.0 hours lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This is the first course in Spanish. It introduces students to the four skills necessary for language acquisition: listening, speaking, reading and writing. It is not recommended for native speakers of Spanish or for students who have completed one year of high school Spanish with a grade of B or better. Students will learn the sound system and basic grammatical structures. This course exposes students to everyday situations and cultural topics of the Hispanic world. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 2 (CAN SPAN4) (Part of CAN SPAN SEQ) 5.0 units**

**Elementary Spanish**

5.0 hours lecture, 1.0 hour laboratory

Prerequisite: SPAN 1 or SPAN 1A and 1B or recent completion of one year of High School Spanish.

Grading: letter grade or pass/no pass

This course is a continuation of the study of basic Spanish vocabulary and grammar forms, emphasizing listening and speaking, reading and writing, based on modern topical material.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 3 (CAN SPAN8) (Part of CAN SPAN SEQ) 5.0 units**

**Intermediate Spanish**

5.0 hours lecture

Prerequisite: SPAN 2 or SPAN 2A and 2B or recent completion of two years High School Spanish.

Grading: letter grade or pass/no pass

This course is an intermediate course on the fundamentals of Spanish. Students will acquire further competency in the four skills necessary for language acquisition: listening, speaking, reading and writing. Topics will be placed in the contemporary context in the Spanish-speaking world. It is not recommended for native speakers of Spanish.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 3H 5.0 units**

**Honors Intermediate Spanish**

5.0 hours lecture

Prerequisite: SPAN 2 or SPAN 2A and 2B or recent completion of two years of High School Spanish and Qualification for the Honors Program.

Grading: letter grade or pass/no pass

This course is an intermediate course on the fundamentals of Spanish. Students will acquire further competency in the four skills necessary for language acquisition: listening, speaking, reading and writing. Topics will be placed in the contemporary context in the Spanish-speaking world. It is not recommended for native speakers of Spanish.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 4 (CAN SPAN10) (Part of CAN SPAN SEQ) 5.0 units**

**Intermediate Spanish**

5.0 hours lecture

Prerequisite: SPAN 3 or recent completion of three years of High School Spanish.

Grading: letter grade or pass/no pass

This course continues the review of Spanish grammar, emphasizing more advanced structures. Topics include comparison of verb tenses, expansion of vocabulary, development of reading and speaking ability and improvement of writing skills through the writing process.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 8AD 3.0 units**

**Spoken Spanish**

3.0 hours lecture

Prerequisite: SPAN 2 or SPAN 2A and 2B

Grading: letter grade or pass/no pass

This course is designed to improve comprehension, structure, oral expression and fluency in Spanish used in travel, in the home, in school and in business. This course emphasizes vocabulary, idioms and language patterns fundamental to an active use of Spanish. This course is not recommended for native speakers of Spanish.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 9 5.0 units**

**Spanish for Spanish Speakers**

5.0 hours lecture

Recommended Preparation: Fluency in spoken Spanish

Grading: letter grade or pass/no pass

This course is the first semester of intermediate Spanish. It develops reading and writing skills of native Spanish speakers as well as perfects their oral skills. Students explore the intellectual and cultural connections and variations of the Hispanic culture in Latin America, the U.S. and Spain. This course also includes extensive review of Spanish grammar, and spelling and writing conventions.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 10 5.0 units**

**Spanish for Spanish Speakers**

5.0 hours lecture

Recommended Preparation: SPAN 9 or fluency in spoken Spanish

Grading: letter grade or pass/no pass

This course is the second semester of intermediate Spanish. It continues developing reading and writing skills of native Spanish speakers. It also includes an extensive grammar review. The Hispanic cultural and reading materials support the development and understanding of writing styles and techniques, enabling the Spanish speaker to apply them to creative writing and to use argument and debating skills in novel situations.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 25A 3.0 units**

**Advanced Spanish: Culture in Literature**

3.0 hours lecture

Prerequisite: SPAN 4 or SPAN 10

Grading: letter grade or pass/no pass

This course is a survey course that explores the relationship between culture and literature. The course will look at literary works of Latino authors from Latin

America, Spain and the U.S. and will study the social-historical evolution of cultural norms as portrayed in literature.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 25B 3.0 units**

**Advanced Spanish: History**

3.0 hours lecture

Prerequisite: SPAN 4 or SPAN 10

Grading: letter grade or pass/no pass

This course is a survey course that explores the historical and cultural evolution of the Spanish-speaking world, beginning with the origins of Spain to contemporary Spain, Latin America and the Hispanic communities in the U.S.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 25C 3.0 units**

**Advanced Spanish: Politics, Current Event**

3.0 hours lecture

Prerequisite: SPAN 4 or SPAN 10

Grading: letter grade or pass/no pass

This course is a course that focuses on the current events of the Spanish-speaking world.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SPAN 25D 3.0 units**

**Advanced Spanish: Literature**

3.0 hours lecture

Prerequisite: SPAN 4 or SPAN 10

Grading: letter grade or pass/no pass

This course is a literature survey course that studies major literary works from Spain and Latin America. The course will cover basic concepts of literary theory and literary criticism in Spanish.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

***FOREIGN LANGUAGE,  
VIETNAMESE (VIET)***

**VIET 1 5.0 units**

**Elementary Vietnamese**

5.0 hours lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

Incorporating theories of language acquisition and principles of whole language learning, this course provides an introduction to the Vietnamese language, emphasizing listening, comprehension, conversation, reading and writing skills to develop control of the basic sounds, forms and structure of Vietnamese. Topics for conversation are everyday life situations and issues in the Vietnamese world including a comparison and contrast with other cultures. It is not recommended for native speakers of Vietnamese. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**FORKLIFT (FORK)**

**FORK 801** **1.0 unit**

**Forklift Safety and Operation**

0.8 hour lecture, 0.6 hour laboratory

Grading: pass/no pass

This course will cover content of safety and operation of the forklift, including basic lifting principles, load rating, stability and operation techniques.

**GEOGRAPHY (GEOG)**

**GEOG 2 (CAN GEOG 4)** **3.0 units**

**Elements of Cultural Geography**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course will introduce students to the basic cultural elements of the earth; the peoples of the world and their settlement characteristics; and the origins, historical dispersals and contemporary distribution of representative cultural patterns. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOG 5** **3.0 units**

**The Global Economy**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course examines the location and organization of international economic activities from an economic, cultural, political, and environmental perspective. Topics covered by a faculty team drawn from economics and geography include the spatial distribution of resources and production, global flows of information, capital and labor, and regional inequalities such as income distribution, poverty, discrimination and standard of living. This class is recommended for students in business, social science and liberal arts with an interest in global and international issues, including regional and social inequalities, marketing and international trade, and tourism. This course is not open to students registered in or with credit in ECON 5. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOG 10** **3.0 units**

**Intro to Geographic Information Systems**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: Familiar with Internet or computer literacy.

Grading: letter grade

This course provides an introduction to mapping and geographic information science, which includes computer systems and software for geographic analysis, cartography, global positioning systems and remote sensing. Included are geographic concepts for spatial analysis and work on practical applications with computer software. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please

see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOG 40** **3.0 units**

**World Regional Geography**

3.0 hours lecture

Grading: letter grade or pass/no pass

The basic concepts and fundamentals of both physical and cultural geography are used in this course for an interpretation of the geographic areas of the Americas, Africa, Europe, countries that comprised the former Soviet Union, Asia, the Middle East and the Pacific area. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOG 48** **3.0 units**

**Geography of California**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to the diversity of the state of California through a study of its cultural and social geography, regions, landscapes and resources. Students investigate the origins of California's ethnic diversity, regional contrasts, resources and problems. The future of California is examined using spatial analysis and field investigations. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOGRAPHY, PHYSICAL (PGEOG)**

**PGEOG 1 (CAN GEOG 2)** **3.0 units**

**Earth Surface Study**

3.0 hours lecture

Grading: letter grade or pass/no pass

This is an introductory physical science course, which will emphasize an understanding of the salient scientific principles underlying the spatial distribution of phenomena that exist in the Earth's hydrosphere, biosphere, atmosphere, and lithosphere and the role humans play within these systems.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PGEOG 2** **3.0 units**

**Weather and Climate**

3.0 hours lecture

Grading: letter grade or pass/no pass

This is an introductory science course developed by the American Meteorological Society with support from the National Science Foundation. This course examines the physical properties of the atmosphere, radiation heating and cooling, precipitation, clouds, weather disturbances, climate controls, and climate change. There is an emphasis on the analysis and forecasting of weather using real-time data from satellites, weather charts/maps, and other remote sensing platforms.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOLOGY (GEOL)**

**GEOL 1 4.0 units**

**General Physical Geology**  
 3.5 hours lecture, 3.0 hours laboratory  
 Grading: letter grade or pass/no pass  
 This is a class that covers the materials and structure of the Earth and the physical processes by which it has been and is being changed. It is a general physical science course for liberal arts students and a beginning course for geology majors. Included with the class is a required one-day, Saturday or Sunday, field trip to acquaint students with the local geology. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOL 1H 4.0 units**

**Honors General Physical Geology**  
 3.5 hours lecture, 3.0 hours laboratory  
 Prerequisite: Qualification for the Honors Program  
 Grading: letter grade or pass/no pass  
 This is a class that covers the materials and structure of the Earth and the physical processes by which it has been and is being changed. It is a general physical science course for liberal arts students and a beginning course for geology majors. Included with the class is a required one-day, Saturday or Sunday, field trip to acquaint students with the local geology.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOL 2 3.0 units**

**General Geology, Physical**  
 3.0 hours lecture  
 Grading: letter grade or pass/no pass  
 This is a class that covers the materials and structure of the Earth and the physical processes by which it has been and is being changed. It is a general physical science course for liberal arts students and a beginning course for geology majors.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOL 2F 1.0 unit**

**Geology Field Trips**  
 1.3 hours lecture  
 Corequisite: GEOL 1 or 2  
 Grading: letter grade or pass/no pass  
 This is a field trip class offering three single-day field trips, including the San Andreas Fault, Palos Verdes Hills and the Santa Ana Mountains-Dana Point. The purpose of these trips is to acquaint students with the local geology and associated environmental problems. This class does not fulfill the requirement for a laboratory science. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOL 2L 1.0 unit**

**General Geology, Physical Geology Lab**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: GEOL 2 (may be taken concurrently)  
 Grading: letter grade or pass/no pass  
 This class provides laboratory exercises in identification of rocks and minerals, an introduction to geologic time and dating techniques, reading and interpretation of topographic maps and aerial photographs, study of geologic structures, faults and geomorphology.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOL 3 4.5 units**

**Historical Geology**  
 4.0 hours lecture, 2.5 hours laboratory  
 Grading: letter grade or pass/no pass  
 A study of earth history through an analysis of the fossil and rock record. Examine the evidence for ancient climatic fluctuations in order to evaluate the theory of recent global warming. A general course for liberal arts students and a beginning course for geology majors. One Saturday field trip is required. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOL 3H 4.5 units**

**Honors Historical Geology**  
 4.0 hours lecture, 2.5 hours laboratory  
 Prerequisite: Qualification for the Honors Program  
 Grading: letter grade or pass/no pass  
 A study of earth history through an analysis of the fossil and rock record. Examine the evidence for ancient climatic fluctuations in order to evaluate the theory of recent global warming. A general course for liberal arts students and a beginning course for geology majors. One Saturday field trip is required.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOL 4 2.0 units**

**Field Geology**  
 1.5 hours lecture, 1.5 hours laboratory  
 Prerequisite: GEOL 1, 2, 2L, 3, 3H or 5 (may be taken concurrently)  
 Grading: letter grade or pass/no pass  
 This is a field course to selected locations in the Owens Valley and Death Valley. This course is an excellent opportunity to travel through California and experience many different examples of geology firsthand.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOL 5 3.0 units**

**Environmental Geology**  
 3.0 hours lecture  
 Grading: letter grade or pass/no pass  
 Students enrolled in this course will learn about natural hazards affecting the greater Los Angeles area, how to assess danger from these hazards and what you can do to minimize personal damage. Students will explore environmental issues of the Los Angeles basin that are directly related to the earth, such as water supply,

pollution and land use. One Saturday field trip is required.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOL 7AD 2.0 units**

**Field Studies: Western Environments**

1.5 hours lecture, 1.5 hours laboratory

Recommended Preparation: GEOL 1, 2, 3 or 18 or concurrent enrollment.

Grading: letter grade or pass/no pass

This course is a field studies course to geologically interesting areas of the west. The emphasis of the course will be to identify clues in the rock and fossil record which indicate past environmental conditions in the Western United States. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**GEOL 16 3.0 units**

**Field Techniques/Geol: So Calif Deserts**

2.0 hours lecture, 3.0 hours laboratory

Prerequisite: GEOL 1, 1H, 2 or 5 (may be taken concurrently)

Grading: letter grade or pass/no pass

This is a class designed to expose geology majors and others to the techniques employed by geologists in the field and laboratory. The class includes: geologic map reading and preparation, identification of geologic features in the field, and microscope laboratory techniques. Attendance at two week-end field trips is required.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**GEOL 17 2.0 units**

**Geology of Southern California Deserts**

1.5 hours lecture, 1.5 hours laboratory

Prerequisite: GEOL 1, 2, or 5 (may be taken concurrently)

Grading: letter grade or pass/no pass

This is a field trip class offering two weekend 3-day field trips. The purpose of these trips is to acquaint students with the interesting and diverse geologic features of the California Deserts. Not open to students with credit in GEOL 16.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**GEOL 18 3.0 units**

**Geology of California**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course presents the basic principles of geology through the examination of the rocks, minerals, fossils, and tectonic events unique to California. The class further places California's unique geology in context of Earth's plate tectonic processes and geologic history.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HEALTH EDUCATION (HLED)**

**HLED 2 2.0 units**

**Introduction to Health Education**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to promote desirable health attitudes and to provide up-to-date information in the areas of individual, family and community health. This course is not open for credit to students registered in or with credit in HLED 3. This course fulfills the AA/AS degree requirements in health education.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HLED 3 3.0 units**

**Contemporary Health Problems**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to explore today's contemporary health issues and their impact on individuals and society. The importance of lifestyle behaviors and choices will be emphasized. Topics that will be discussed include vital statistics, infectious diseases, non-communicable diseases, nutrition, weight management, human sexuality, consumer health, mental health and psychoactive drugs. This course is not open for credit to students registered in or with credit in HLED 2. Fulfills AA/AS degree requirements in Health Education. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HLED 4 3.0 units**

**Women's Health Issues**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course proposes to help women attain an optimum state of health; includes becoming discerning consumers of the health care industry. Fundamentals of normal physiology will be covered to the extent necessary to promote understanding of the cause, prevention and treatment of various conditions or disorders, including reproductive organ dysfunction, menstrual disorders, sexually transmitted diseases, infertility, complications of pregnancy, osteoporosis, cancer and cardiovascular disease. The importance of lifestyle habits will be emphasized. Other topics include gender differences in health and mortality and the current status of research on women's health issues. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HLED 5 3.0 units**

**Men's Health Issues**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to explore contemporary health issues and how they affect men. A variety of topics will be addressed, including; cardiovascular disease, relationships and sexuality, alcohol and substance abuse, stress, and psychological health. These topics will

be examined in relation to how they influence the wellness of men.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HLED 10 3.0 units**

**Human Sexuality**

3.0 hours lecture

Grading: letter grade or pass/no pass

This is an introduction to human sexual knowledge, attitudes and behaviors viewed from the biological, psychological, sociological, cultural and historical perspectives. The course provides three units of elective work in the health sciences or sociology. It does not take the place of HLED 2 or 3 which are required for the AA/AS degrees nor is it open for credit to students registered in or with credit in PSYCH 10.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HISTORY (HIST)**

**HIST 1A (CAN HIST2) (Part of CAN HIST SEQ) 3.0 units**

**History: Western (European) Civilization**

3.0 hours lecture

Grading: letter grade

This course is a broad survey of European civilization and its world significance from pre-history to the end of the Thirty Years War, including Greece, Rome, the Middle Ages, Renaissance and Reformation through the Age of Discovery.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 1AH 3.0 units**

**Honors History of Western European Civ**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course is a broad survey of European civilization and its world significance from pre-history to the end of the Thirty Years War, including Greece, Rome, the Middle Ages, Renaissance and Reformation through the Age of Discovery.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 1B (CAN HIST4) (Part of CAN HIST SEQ) 3.0 units**

**History: Western (European) Civilization**

3.0 hours lecture

Grading: letter grade

This course, History of Western (European) History, traces European civilization from the end of the Thirty Years War in 1648 to the present, including the French Revolution, the Napoleonic era, the Industrial Revolution, the age of nationalism and imperialism, World Wars I and II, the atomic age, the rise and fall of Soviet power and the post cold war era.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 1BH 3.0 units**

**Honors History of Western European Civ**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course, History of Western (European) History Honors, traces European civilization from the end of the Thirty Years War in 1648 to the present, including the

French Revolution, the Napoleonic era, the Industrial Revolution, the age of nationalism and imperialism, World Wars I and II, the atomic age, the rise and fall of Soviet power and the post cold war era.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 2A 3.0 units**

**The Ancient World**

3.0 hours lecture

Grading: letter grade

This course is an introduction to the earliest stages of human culture from Paleolithic times through the establishment of the classical civilizations of the Eurasian continent and Nilotic Africa concluding with the collapse of the ancient era and the fall of Rome, Han China, Gupta India and Nilotic Africa.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 2B 3.0 units**

**World Civilizations**

3.0 hours lecture

Grading: letter grade

This course is an introduction to the development of world civilizations from the ancient world to about 1700. The emphasis is comparative and the focus is on the interactions of major cultures. This course explores migration and settlement patterns, the role of universal religions, major medieval civilizations, technology and the effects of explorations and colonization movements.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 2C 3.0 units**

**The Modern World**

3.0 hours lecture

Grading: letter grade

This course is a comprehensive survey of the major world civilizations at the start of European expansion. This course explores the creation and impact of European colonial empires, the role of industrialization, science, technological innovation and communication in the decades after 1700. This course will explore competing ideologies and their impact as well as the emergence of the modern nation state. In this course, major themes are brought together in close examination of the problems and successes of the contemporary era.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 2CH 3.0 units**

**Honors The Modern World**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course is a comprehensive survey of the major world civilizations at the start of European expansion. This course explores the creation and impact of European colonial empires, the role of industrialization, science, technological innovation and communication in the decades after 1700. This course will explore competing ideologies and their impact as well as the emergence of the modern nation state. In this course, major themes are brought together in close examination of the problems and successes of the contemporary era.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*



**HIST 5A 3.0 units**

**History of England and Great Britain**

3.0 hours lecture

Grading: letter grade

This class is a survey of British history from antiquity through the reign of Queen Anne (1714). The course focuses on the political, social, religious and intellectual institutions of ancient and medieval English history, with a special emphasis given to the evolution of British political philosophy and law and its impact on European history.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 5B 3.0 units**

**History of England and Great Britain**

3.0 hours lecture

Grading: letter grade

This Course is a survey of English history from the accession of George I of Hanover (1714) to the present with an emphasis on the creation and expansion of the British Empire, the Industrial Era, and the collapse of the European hegemony during World Wars I and II. Particular attention will be given to the postwar adjustment of the United Kingdom to the new set of realities that emerged in the second half of the 20th century.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 6 3.0 units**

**History of Russia**

3.0 hours lecture

Grading: letter grade

This course is a survey of Russian history from the founding of the Russian state to the present. It emphasizes Imperial Russia in the 19th century, the road to revolution in 1917, development of Soviet society and the role of the former USSR in international affairs and post-Cold War Russia.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 8A 3.0 units**

**History of the Americas**

3.0 hours lecture

Grading: letter grade

This course is a comprehensive survey of the Western Hemisphere from the development of its earliest human communities, the subsequent encounters with European civilizations, and the formation of colonial empires. The course focuses on a comparative analysis of the social, economic and political structures of the region through the movement for independence in the nineteenth century. This course is recommended for Spanish majors.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 8AH 3.0 units**

**Honors History of the Americas**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course is a comprehensive survey of the Western Hemisphere from the development of its earliest human communities, subsequent encounter with European civilization and the formation of colonial empires. The course focuses on a comparative analysis of the social, economic and political structures of the region through

the movement for independence in the nineteenth century. This course is recommended for Spanish majors.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 8B 3.0 units**

**History of the Americas**

3.0 hours lecture

Grading: letter grade

This course presents a comprehensive survey of the distinct national identities of the nations of the Western Hemisphere as they developed and matured during the nineteenth and twentieth centuries. The course focuses on a comparative analysis of North and South America as the new nations struggled with economic, political and social issues. This course is recommended for Spanish majors.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 8BH 3.0 units**

**Honors History of the Americas**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course presents a comprehensive survey of the distinct national identities of the nations of the Western Hemisphere as they developed and matured during the nineteenth and twentieth centuries. The course focuses on a comparative analysis of North and South America as the new nations struggled with economic, political and social issues. This course is recommended for Spanish majors.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 9A 3.0 units**

**History of China**

3.0 hours lecture

Grading: letter grade or pass/no pass

This class is a survey of Chinese history from antiquity to the present with an emphasis on the modern era. Particular attention is given to the evolution of the traditional China, the Chinese way of life, and the dynastic cycle as well as the impact of modernization, the imperial era, and the building of a new society during the 20th century.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 9B 3.0 units**

**History of Japan and Korea**

3.0 hours lecture

Grading: letter grade or pass/no pass

This class is a survey of Japanese and Korean history from antiquity to the present with an emphasis on the modern era. Particular attention is given to the relationship of both countries to traditional China, the development of a unique way of life in each, and the impact of modernization and the imperial era on these two societies during the 19th and 20th centuries.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 9C 3.0 units**

**History of India and Southeast Asia**

3.0 hours lecture

Grading: letter grade or pass/no pass

This class is a survey of the history of India and Southeast Asia from antiquity to the present. Emphasis is placed on the political, economic, social, religious and intellectual institutions of traditional India and representative cultures in Southeast Asia. Special attention is given to the impact of modernization on the Subcontinent, the development of modern India, and the history of representative cultures of Southeast Asia: Vietnam, Laos, Cambodia, Thailand, Burma, Malaya, Sumatra, and Java.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 10 (CAN HIST8) (Part of CAN HIST SEQ) 3.0 units**

**Hist/Early America (Colonial-Reconstr)**

3.0 hours lecture

Grading: letter grade

This course is a survey of major political, economic, social, and intellectual trends in the history of the United States from the colonial era through Reconstruction (1877). Attention is given to the collision and creation of cultures during colonization, the development of slavery, the American Revolution and national origins, and the growth and division of the nation before the Civil War. HIST 10 and 11 need not be taken in sequence, if the student desires to take both courses. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 10H 3.0 units**

**Honors History/Early America**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course is a survey of major political, economic, social, and intellectual trends in the history of the United States, from the colonial era through Reconstruction (1877). Attention is given to the collision and creation of cultures during colonization, the development of slavery, the American Revolution and national origins, and the growth and division of the nation before the Civil War. HIST 10H and 11H need not be taken in sequence, if the student desires to take both courses.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 11 (CAN HIST10) (Part of CAN HIST SEQ) 3.0 units**

**Hist/Modern America (Reconstr-Present)**

3.0 hours lecture

Grading: letter grade

This course is a survey of major political, economic, social, diplomatic and intellectual trends and events in United States history from the end of Reconstruction (1877) to the present. The course emphasizes the building of the modern industrial society, growing involvement in international relations, the evolution of a multi-ethnic community and social reform movements of the 20th and 21st century. HIST 10 and 11 need not be taken in sequence if the student desires to take both courses. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the

section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 11H (CAN HIST10) (Pt of CAN HIST SEQ) 3.0 units**

**Honors History/Modern America**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course is a survey of major political, economic, social, diplomatic and intellectual trends and events in United States history from the end of reconstruction (1877) to present. The course emphasizes the building of the modern industrial society, growing involvement in international relations, the evolution of a multi-ethnic community and social reform movements of the 20th century. HIST 10H and HIST 11H need not be taken in sequence if the student desires to take both courses.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 18 3.0 units**

**History of Mexico**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a comprehensive survey of the historical and cultural development of Mexico from the pre-Columbian era to the present. The course focuses upon the major intellectual, social and political movements in the formation of modern Mexico.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 25 3.0 units**

**History of American Woman**

3.0 hours lecture

Grading: letter grade

This course is a survey of the history of women in America from the pre-colonial period to the present. Emphasis is on the relevant political, economic, intellectual, and social role filled by American women. This course satisfies the U.S. History requirement for the AA Degree.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 27A 3.0 units**

**History of the African-American to 1877**

3.0 hours lecture

Grading: letter grade

This course provides a comprehensive survey of the African-American experience in the United States from the colonial period to the Civil War. Emphasis is placed on African civilization prior to European enslavement, the American institution of slavery and the role of African-Americans during colonial wars. Particular attention is given to contributions of African-Americans to the social, economic and political development of the United States.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 27B 3.0 units**

**Hist/African-American (Reconstr-Present)**

3.0 hours lecture

Grading: letter grade or pass/no pass

A comprehensive survey of African-American social, political and economic development in the United States from the Reconstruction Period to the present. Will

examine Jim Crow and white supremacy, the modern civil rights movement and the new struggle for community economic development and educational and employment in the twenty-first century.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 48 3.0 units**

**History of California**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a comprehensive survey of California from pre-Columbian times to the present. It focuses on Amerindian cultures, the exploration, colonization and development of Hispanic California, the coming of the American and the political, economic and cultural development of California since its acquisition by the United States. This course is recommended for those planning a teaching career in California.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HIST 49 3.0 units**

**History of the American West**

3.0 hours lecture

Grading: letter grade

This course offers a broad survey of the history of the American West and examines its significance from pre-history to the present. Course topics include Native Americans, the frontier experience, the Gold Rush, women in the West, the diverse racial and ethnic groups in the history of the West, environmental issues, popular cultural representations of the West, twentieth century problems, and urban and suburban development.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HOMELAND SECURITY ADMIN  
(HSA)**

**HSA 401 3.0 units**

**Introduction to Homeland Security**

3.0 hours lecture

Grading: letter grade

This course will introduce students to the vocabulary and important components of Homeland Security. It will include the importance of the agencies associated with Homeland Security and their interrelated duties and relationships. It will examine historical events and state, national and international laws that impact Homeland Security. The most critical threats confronting Homeland Security will be examined.

**HSA 402 3.0 units**

**Intelligence Analysis/Security Mgmt**

3.0 hours lecture

Grading: letter grade

This course examines intelligence analysis and its indispensable relationship to the security management of terrorist attacks, man-made disasters and natural disasters. It examines vulnerabilities of the national defense and private sectors, as well as the threats posed to these institutions by terrorists, man-made disasters and natural disasters. Students will examine issues regarding intelligence support of homeland security measures and explore how the intelligence community operates.

**HSA 403 3.0 units**

**Transportation and Border Security**

3.0 hours lecture

Grading: letter grade

This course provides an in-depth view of modern border and transportation security. Specific topics include security for seaports, ships, aircraft, trains, trucks, pipelines, buses and other transportation modes. The course focuses on the technology needed to detect terrorists and their weapons as well as discussion on legal, economic, political and cultural aspects of the problem.

**HORTICULTURE (HORT)**

**HORT 10A 4.0 units**

**Greenhouse Management and Operation**

2.0 hours lecture, 6.0 hours laboratory

Grading: letter grade or pass/no pass

This course will focus on the study of greenhouse structures and operation. Topics will include heating and cooling systems, humidity and watering systems, propagation systems and controls, proper soil mix, fertilizer and injector systems, propagation methods, transplanting, shifting of nursery stock, quality and inventory control, wholesale and retail sales, shipping practices and credit management equal to industry standards. Automation, mechanization and other labor saving equipment and procedures will be discussed. This course also includes field trips.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 10B 4.0 units**

**Greenhouse Management and Operation**

2.0 hours lecture, 6.0 hours laboratory

Grading: letter grade or pass/no pass

This course will focus on the study of greenhouse structures and operation. Topics will include heating and cooling systems, humidity and watering systems, propagation systems and controls, proper soil mix, fertilizer and injector systems, propagation methods, transplanting, shifting of nursery stock, quality and inventory control, wholesale and retail sales, shipping practices and credit management equal to industry standards. Automation, mechanization and other labor saving equipment and procedures will be discussed. This course also includes field trips.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 11A 3.0 units**

**Plant Identification: Trees**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course focuses on the study of trees, including identification, growth habits, and ornamental uses in the landscape. Trees emphasized will come from the current California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Tests Plant Lists. Required field trips will be part of this class' requirements.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 11B 3.0 units**

**Plant Identification: Shrubs**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course will focus on the study of shrubs, including identification, growth habits, and ornamental uses in the landscape. Shrubs emphasized will come from the current California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Tests Plant Lists.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 11C 3.0 units**

**Plant Identification: Herbaceous**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course will focus on the study of Herbaceous plant materials, including identification, growth habits, and ornamental uses in the landscape. Herbaceous plant material emphasized will come from the current California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Tests Plant Lists.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 11D 3.0 units**

**Plant Identification: Tropicals**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course will focus on the study of tropical plant materials, including identification, growth habits, and ornamental uses in the landscape. Tropical material emphasized will come from the current California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Tests Plant Lists.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 15A 2.0 units**

**Basic Horticulture**

1.5 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course will present the basic aspects and techniques of the horticulture industry for spring: nomenclature, plant physiology, soils, fertilizers, irrigation, propagation, pruning and pest identification and control in accordance to industry standards. This course also includes field trips.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 15B 2.0 units**

**Basic Horticulture**

1.5 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course will present the basic aspects and techniques of the horticulture industry for fall: nomenclature, plant physiology, soils, fertilizers, irrigation, propagation, pruning and pest identification and control in accordance to industry standards. This course also includes field trips.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 19 4.0 units**

**Turf Management**

2.0 hours lecture, 6.0 hours laboratory

Grading: letter grade or pass/no pass

This course is an introductory course in the maintenance and management of turfgrasses that includes sports athletic fields, golf courses, parks, cemeteries,

commercial, and residential lawns. Discussion will focus on identification, installation, cultural requirements, and maintenance practices. Students will participate in the removal of sod and installation of new turf from seed, sod and stolons.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 21 3.0 units**

**Principles of Landscape Design**

3.0 hours lecture

Grading: letter grade or pass/no pass

Students in this course will learn basic landscape design and drafting skills in accordance to industry standards, including landscape symbols and lettering for plant materials, hardscape, irrigation, lighting and electrical, local and state codes. Students will prepare a finished drawing of a new landscape site with cost estimates for materials and labor. This course also includes field trips.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 26A 3.0 units**

**Plant Propagation — Spring**

3.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course concentrates on plant propagation and production practices for the Spring season. Emphasis is on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, and plant pest and disease control. Instruction includes an overview of structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment, and regulations pertaining to plant production based on industry standards and trends. This course also includes field trips.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 26B 3.0 units**

**Plant Propagation — Fall**

3.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course concentrates on plant propagation and production practices for the Fall season. Emphasis is on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, and plant pest and disease control. Instruction includes an overview of structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment, and regulations pertaining to plant production based on industry standards and trends. This course also includes field trips.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 28A 3.0 units**

**Horticulture Equipment Operation (Fall)**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course focuses on the safe operation and maintenance of power equipment commonly used in the Landscape and Nursery industries. Students will experience extensive hands on training with numerous types of gasoline, diesel, electric and pneumatic powered equipment.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 28B 3.0 units**

**Horticulture Equipment Operation (Spr)**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course focuses on the safe operation and maintenance of power equipment commonly used in the Landscape and Nursery industries. Students will experience extensive hands on training with numerous types of gasoline, diesel, electric and pneumatic powered equipment.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 30 3.0 units**

**Integrated Pest Management**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course will focus on the study of diagnosing pests and diseases of ornamental plants and turf, chemical and biological control and their regulation, local, and state and federal laws pertaining to pesticide application. Students will prepare for the pesticide applicator's exam. This course also includes field trips.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HORT 202AB 4.0 units**

**Principles of Pruning**

2.0 hours lecture, 6.0 hours laboratory

Grading: letter grade or pass/no pass

Students will learn to properly prune trees, shrubs, vines and identify pruning periods for deciduous and evergreen plants. Students will also identify and safely operate tools and equipment to industry standards as well as perform maintenance and repair of tools and equipment.

**HORT 223AD 4.0 units**

**Landscape Construction**

2.0 hours lecture, 6.0 hours laboratory

Grading: letter grade or pass/no pass

This course will enable students to develop a basic knowledge of the theory and application of soil preparation, equipment operation, planting, installation and maintenance and hardscape techniques. Landscape plan layout and bidding will be emphasized along with decking and masonry construction and irrigation troubleshooting, design and installation.

**HORT 227 2.0 units**

**Interior Plant Design/Installation/Maint.**

1.5 hours lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

Learn interior landscape design, installation and maintenance techniques, cultural and climatic conditions, pests and diseases and their prevention and control, cool and warm season color and how to bid and sell a design.

**HORT 271AD 2.0 units**

**Work Experience: Horticulture**

1.0 hour lecture, 4.1 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through

employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**HORT 272AD 3.0 units**

**Work Experience: Horticulture**

1.0 hour lecture, 8.3 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**HORT 273AD 4.0 units**

**Work Experience: Horticulture**

1.0 hour lecture, 12.5 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**HORT 315 1.5 units**

**Basic Horticulture**

1.0 hour lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to the basics of the horticulture industry. The focus is on soil types, potting and transplanting, propagation, fertilizers, budding and grafting. This course also includes field trips.

**HORT 315M2 1.0 unit**

**Landscape Design**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade or pass/no pass

Students in this course will learn basic landscape design and drafting skills including landscape symbols and lettering for plant materials, hardscape, irrigation, lighting and electrical, local and state codes. Students will prepare a finished drawing of a new landscape site in accordance to industry standards with cost estimates for materials and labor. This course also includes field trips.

**HORT 323AD 0.5 unit**

**Landscape Construction**

0.4 hour lecture, 1.1 hours laboratory

Grading: letter grade or pass/no pass

This course will aid students in developing a basic knowledge of the theory and application of soil preparation, equipment operation, planting, maintenance and techniques in irrigation, masonry, wood fences and gates and bidding.

**HORT 430 4.0 units**

**Landscape Maintenance**

3.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course prepares students to enhance the function and aesthetic value of public and private landscapes by applying appropriate maintenance techniques. Topics include planting, pruning, watering, soil fertility, pest management, weed control, and landscape maintenance business practices.

***HUMAN SERVICES/SOCIAL WORK  
(HS)***

**HS 1 3.0 units**

**Introduction to Social Work**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to identify and analyze the history and development of the primary services in urban and rural communities in America. Working in the social work field is explored as a helping process with a wide range of systems and social work knowledge; ethics, values, principles, professional relationships, interviewing and beginning assessment and intervention phases are also examined. The skills and responsibilities of the Social Worker in resolution of psychosocial problems are examined. Class work is supplemented by observing and/or interacting with personnel from local primary helping service agencies.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HS 7 3.0 units**

**Introduction to Victimology**

3.0 hours lecture

Grading: letter grade

The course examines the cost of victimization to society. The existing resources will be examined. Suggestions for ways that resources can be expanded will be suggested. Career opportunities for working in this field will be presented. Classwork is supplemented by field site visits to several primary providers of service to victims and their families.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HS 15 3.0 units**

**Social Welfare: People with Disabilities**

3.0 hours lecture

Grading: letter grade

This course is an overview of various disabilities and their etiology. It includes the study of methods and the processes involved in the adjustments of people and their families to various disabilities. It includes an in-depth analysis of stereotypes, prejudices and discrimination and the psychological factors involved with limiting persons with disabilities. An overview of the various social services available to persons with disabilities needed to allow them to return to as close to a normal life as possible is given.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HS 26 3.0 units**

**Introduction to Gerontology**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course provides an overview of the social, psychological and biological effects of aging, emphasizing individual differences among older adults, including ethnic differences. Demographic trends, historical and cross-cultural issues in aging will also be examined. Additional topics include how to evaluate social support systems, economic issues and risk factors of the elderly. Social policies relating to aging, including health and long term care programs, will also be presented.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HS 40A 3.0 units**

**Introduction to Addictive Behaviors**

3.0 hours lecture

Grading: letter grade

This course is designed for individuals who wish to expand their overall knowledge of addictive behaviors. Topics covered include the basic causal relationship between alcoholism, drug abuse and addictive personalities. Students will be taught how to identify treatable issues, establish goals and objectives to treat these issues and practice implementing them to determine their effectiveness with both inpatient and outpatient populations. This course is designed to prepare students for level entry positions in the growing human services field.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HS 40B 3.0 units**

**Introduction to Addictive Behaviors**

3.0 hours lecture

Grading: letter grade

This course is designed for individuals who wish to expand their knowledge of addictive behaviors. Topics covered include basic theories of codependency and eating disorders; and the exploration of methods to identify, classify, intervene and treat clients. This course is designed for persons who are preparing for careers in the rapidly growing human services field.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HS 41 3.0 units**

**Introduction to Chemical Dependency**

3.0 hours lecture

Grading: letter grade

This course takes the student through the history of abuse of alcohol and other mood altering substances. How persons develop the ability to abuse and become addicted to other behaviors, such as food and sex, will also be examined. Psychological, social and physical contributions and outcomes of addictive behavior will be presented. This course is designed for those students interested in the helping professions, especially those interested in a career in Alcohol and Drug Studies. This course will assist students in preparation for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification tests.

**HS 43 3.0 units**

**Case Management: Treatment & Aftercare**

3.0 hours lecture

Grading: letter grade

Students will examine ways to conduct initial intake assessments, design, implement and evaluate a treatment plan plus examine various types of treatment programs and major issues for effective termination. Client/case manager legal and confidentiality issues will also be presented. This course is designed for those interested in the helping fields. This course is required for students in preparing for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification. This course is required for both CAADE and CAADAC certification.

**HS 45 3.0 units**

**Stress Management for Case Managers**

3.0 hours lecture

Grading: letter grade

This course examines the many psychological, social and environmental stresses commonly experienced by persons working in the helping fields. Specific ways to cope or more effectively manage these stressors will be presented. Material will include techniques to deal with both individual and social/interpersonal issues. The course is strongly recommended for individuals working as case managers in the helping fields. Several skills from the Cognitive Behavioral Therapy model will be included. It will assist students in preparation for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification exam. HS 45 is required for persons seeking CAADAC certification. This course is an elective for CAADE students.

**HS 46 3.0 units**

**Physiology & Pharmacology of Drugs**

3.0 hours lecture

Grading: letter grade

This course examines the effects that alcohol and several other psychoactive drugs have on our brain, body and everyday behavior. Issues including drug tolerance, dual diagnosis and the effects of drugs on sexual performance are examined and as well as how to utilize this information when developing a treatment plan. This course is required for students preparing for both the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification.

**HS 47 3.0 units**

**Intervention, Treatment & Recovery**

3.0 hours lecture

Grading: letter grade

This course examines the communication process from the perspective of both the client and case manager. Several therapeutic individual treatment approaches will be presented and applied through role playing and case presentations. This course is designed for students interested in the helping professions or pursuing a career in alcohol/drug studies. This course will assist students in preparation for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification exam. HS 47 is "required" by

both CAADE & CAADAC boards. This course was formerly known as HS 247; the name of this course was titled "Process & Individual Techniques".

**HS 48 3.0 units**

**Group & Family Process**

3.0 hours lecture

Grading: letter grade

Students will explore the counseling process from the perspective of both the client and counselor. Therapeutic orientations of group/family counseling will be learned and applied through class role playing. The course is designed for students interested in the helping professions. The course will assist students in preparation for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HS 50 3.0 units**

**Law and Ethics**

3.0 hours lecture

Grading: letter grade

Topics covered include the applicable laws and ethics relating to case manager/client relationship in a treatment setting. Laws relating to confidentiality, patient rights, assessments and sharing of personal information will be presented. This course is designed for students interested in the helping professions. It will assist students in preparation for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification. This course is required for students seeking CAADAC certification. This course was formerly known as HS 248.

**HS 71AD 2.0 units**

**Work Experience — Human Services**

1.0 hour lecture, 4.1 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course prepares students to develop work experience objectives, career goals, job interviewing skills, how to write a resume and address employment issues encountered in the workplace. Field placements provide vocational experiences through direct work experiences in the Alcohol/Drug treatment and Human Services disciplines. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HS 72AD 3.0 units**

**Work Experience — Human Services**

1.0 hour lecture, 8.3 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course prepares students to develop work experience objectives, career goals, job interviewing skills and address employment issues encountered in the workplace. Field placements provide vocational

experiences through direct employment in the Alcohol & Drug Studies and Human Services disciplines. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**HS 73AD 4.0 units**

**Work Experience — Human Services**

1.0 hour lecture, 12.5 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade

This course prepares students to develop work experience objectives, career goals, job interviewing skills and address employment issues encountered in the workplace. Field placements provide vocational experiences through direct employment in the Alcohol/Drug Counseling and Human Services disciplines. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**HS 207 3.0 units**

**Development of Helping/Listening Skills**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed for persons who are interested in working in counseling/case manager roles in the human services field. Topics covered include developing techniques for volunteer, peer and para-professionals working in the people-helping fields. Students will develop skills in initiating, attending, responding and personalizing assistance to clients. Small groups will be used to guide students through a learning sequence of listening and helping skills.

**HS 242 3.0 units**

**Conflict Resolution/Mediation**

3.0 hours lecture, 1.0 hour laboratory

Grading: letter grade

This course examines the background, development and methodology of non-violent, non-litigious conflict resolution skills with emphasis on theory and the practice of mediation. This course is designed for students and those working with individuals/group/staff who deal with interpersonal conflicts in the alcohol & drug treatment community. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**HS 252 3.0 units**

**Co Occurring Disorders**

3.0 hours lecture

Grading: letter grade

This course explores understanding mental illness and persons with more than one mental/psychiatric disorder. It introduces students to the various disorders in infancy, childhood, adolescence and adulthood. It will introduce students to co-existing disorders and various diagnosis and treatment techniques used to treat this unique population. Students will tour two different types of mental health facilities, to provide an additional understanding of mental health issues.

**HS 255 3.0 units**

**Alcohol & Drug Prevention & Education**

3.0 hours lecture

Grading: letter grade

This course will review the essential components of effective Alcohol & Drug prevention programs. Prevention programs and activities appropriate for the community, school, parents, family, and worksites will be presented. Strategies such as education; public policies; media/information dissemination, ethnic, cultural, gender-specific approaches; and environmental risk reduction and alternatives will be presented and assessed for their application to different target populations.

**HS 260 3.0 units**

**Domestic Violence Intervention Strategies**

3.0 hours lecture

Grading: letter grade

This course is designed to provide the required academic training needed to prepare students to pursue the work experience required to qualify as a Certified Domestic Violence Counselor. Training shall include, but will not be limited to, the following: history of domestic violence, civil and criminal law as it is related to domestic violence, societal attitudes towards domestic violence, peer counseling techniques, housing, public assistance and other financial resources available to meet the financial needs of domestic violence victims.

***HUMANITIES (HUMAN)***

**HUMAN 1 3.0 units**

**Comparative World Cultures**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course compares and contrasts major civilizations using interdisciplinary approach or team teaching drawn from the Humanities and the Social Sciences. It covers the study of two or more major cultures to determine how these human communities met their basic biological, material, religious and intellectual needs, and experienced both continuity and change through time. This course is not open for credit to students who have completed Humanities 1H, Social Science 1, or Social Science 1H.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**HUMAN 1H 3.0 units**

**Honors Comparative World Cultures**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course compares and contrasts major civilizations using an interdisciplinary approach or team teaching drawn from the Humanities and the Social Sciences. These teams study two or more major cultures to determine how these human communities met their basic biological, material, religious and intellectual needs, and experienced both continuity and change through time. This course is part of the Honors Curriculum. This course is not open for credit to students who have completed HUMAN 1, SOCSC 1, or SOCSC 1H.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*



**HUMAN 7**

**3.0 units**

**American Pluralism and Identity**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course explores the multicultural nature of American society from a Humanities and Social Sciences perspective. The course examines how ethnic groups in America have constructed artistic, literary, musical, philosophical and religious identities based on their traditions and experiences and seeks to understand the United States as a common culture. Using the Social Sciences to compare and contrast the origins, living conditions and experiences of America's constituent populations, the course analyzes the complexity of the processes effecting the interaction of the American people. This course is not open for credit to students registered in or with credit in SOCS 7. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**INTERIOR DESIGN (ID)**

**ID 1**

**3.0 units**

**Fundamentals of Interior Design**

3.0 hours lecture

Grading: letter grade or pass/no pass

Fundamentals of Interior Design provides an introduction to the design principles and elements necessary for the planning of interior environments that meet individual, functional, legal and environmental needs. The application of design materials and products used in interior environments will be emphasized.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ID 5**

**2.0 units**

**Interior Design Studio I**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: ID 1 (may be taken concurrently)

Grading: letter grade or pass/no pass

Interior Design Studio I is designed to introduce the beginning student to the application process of interior design. Studio I projects will include residential design solutions and beginning project construction.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ID 10**

**3.0 units**

**Beginning Drafting: Interior Design**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

The beginning drafting course for interior design will focus on applications of methods and theory used for architectural drawings, including basic graphics and projections for design and working drawings.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ID 20**

**2.0 units**

**Interior Design Careers**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course will provide a survey of the interior design profession, industry, related occupations and work sites. This course will emphasize personal, educational and professional qualifications required for entry into the interior design profession.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ID 30**

**4.0 units**

**Applied Color Theory and Design**

3.0 hours lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course provides review of basic color and design theory and design application. The review of color theories includes Munsell, Albers, Itten and Ostwald. Interior color exercises are applied to an interior design project. This course also explores psychological implications of design and color forecasting trends.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ID 50**

**4.0 units**

**Interior Materials and Products**

4.0 hours lecture

Grading: letter grade or pass/no pass

The Interior Materials and Products course will focus on the analysis, application and evaluation of products and materials used in interior design. Various design materials and products will include interior textiles, furnishings and finish materials.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ID 70**

**3.0 units**

**Space Planning**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: ID 5 and ID 10

Grading: letter grade or pass/no pass

This course will provide space planning evaluation and creation involving both residential and contract interior design projects. Formal drawings will incorporate programming, matrix adjacency study, furniture arrangement, as well as ADA code and Universal Design.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ID 70AD**

**1.0 unit**

**Work Experience Issues-Interior Design**

1.0 hour lecture

Corequisite: Enrollment in ID 71AD, 72AD or 73AD. NOTE: You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course seminar related to work experience. Discussion of work experience objectives, career goals, employment search, communication skills and problem solving.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

<p><b>ID 71AD</b> <span style="float: right;"><b>1.0 unit</b></span></p> <p><b>Work Experience: Interior Design</b> 4.1 hours laboratory Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned. Grading: letter grade or pass/no pass This course provides vocational learning experiences through employment placement which is directly related to the Interior Design industry. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>ID 90</b> <span style="float: right;"><b>3.0 units</b></span></p> <p><b>History of Interiors and Furnishings II</b> 3.0 hours lecture Grading: letter grade or pass/no pass The historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of design heritage. Beginning with the sixteenth century in America, this course analyzes the influences and changes in design to the present. The course emphasizes style development as it relates to social, economic and political forces. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>
<p><b>ID 72AD</b> <span style="float: right;"><b>2.0 units</b></span></p> <p><b>Work Experience: Interior Design</b> 8.3 hours laboratory Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned. Grading: letter grade or pass/no pass This course provides vocational learning experiences through employment placement which is directly related to the Interior Design industry. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>ID 200</b> <span style="float: right;"><b>2.0 units</b></span></p> <p><b>Interior Illustration</b> 1.0 hour lecture, 3.0 hours laboratory Recommended Preparation: ID 10 Grading: letter grade or pass/no pass This course covers application methods, techniques and tools used for illustrating interior spaces and products. Instruction will include one and two point perspective, elevations, highlighting, shading, and shadowing of interior elements.</p>
<p><b>ID 73AD</b> <span style="float: right;"><b>3.0 units</b></span></p> <p><b>Work Experience: Interior Design</b> 12.5 hours laboratory Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned. Grading: letter grade or pass/no pass This course provides vocational learning experiences through employment placement which is directly related to the Interior Design industry. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>ID 210</b> <span style="float: right;"><b>3.0 units</b></span></p> <p><b>Fundamentals of Lighting</b> 3.0 hours lecture Grading: letter grade or pass/no pass The Fundamentals of Lighting course will introduce lighting theory and application for the interior environment. Additional topics will include critical lighting vocabulary; how light affects color and vision; incandescent and fluorescent lamps; and codes and energy efficient lighting practices.</p>
<p><b>ID 80</b> <span style="float: right;"><b>3.0 units</b></span></p> <p><b>History of Interiors and Furnishings I</b> 3.0 hours lecture Grading: letter grade or pass/no pass The historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of our design heritage from antiquity through the nineteenth century in France. The history of interiors course will emphasize style development as it relates to social, economic and political context. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>ID 215</b> <span style="float: right;"><b>2.0 units</b></span></p> <p><b>Interior Design Studio II</b> 1.0 hour lecture, 3.0 hours laboratory Prerequisite: ID 5 Recommended Preparation: ID 10 and ID 70 and ID 200. Grading: letter grade or pass/no pass This course will apply the formal design process to the contract design project. This contract project will include the application of LEED/Green Design practices, illustration and rendering techniques and a complete set of formal design drawings.</p>
	<p><b>ID 230</b> <span style="float: right;"><b>3.0 units</b></span></p> <p><b>Business and Professional Practice</b> 3.0 hours lecture Grading: letter grade or pass/no pass The business and professional management of an interior design practice, including legal issues, project management and business practices.</p>
	<p><b>ID 240</b> <span style="float: right;"><b>3.0 units</b></span></p> <p><b>Introduction to Green Design</b> 3.0 hours lecture Grading: letter grade This course will provide an overview of environmentally responsible design including green and sustainable design application for Interior Designers. Case studies of green building projects will include evaluation of “green” interior finishes and materials, energy efficient lighting design, and water efficiency systems. This course will also provide preparation for the LEED Accredited Professional certification. Field trips will be required.</p>

**ID 241** **3.0 units**

**Introduction to Leed**

3.0 hours lecture  
Grading: letter grade  
This course will present an overview of LEED (Leadership in Energy and Environmental Design). The LEED rating system will be covered including: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources and Indoor Environmental Quality. This course will provide preparation for the LEED Accredited Professional certification. Field trips will be required.

**ID 272** **1.0 unit**

**Residential Furnishings**

1.0 hour lecture  
Grading: letter grade or pass/no pass  
This course provides a practical analysis of furniture design for the residential space. Consideration of furniture function, social use, case studies, design theory and fabrication will be observed. The construction of upholstered furniture and case goods will be evaluated for quality standards. Current trends in interior furniture will be discussed.

**ID 298A** **3.0 units**

**EXP-Intro to Green Design**

3.0 hours lecture  
Grading: letter grade  
This course will provide an overview of environmentally responsible design including green and sustainable design application for Interior Designers. Case studies of green building projects will include evaluation of "green" interior finishes and materials, energy efficient lighting design, and water efficiency systems. This course also provides preparation for the LEED Accredited Professional certification.

**ID 298B** **3.0 units**

**EXP-Introduction to LEED**

3.0 hours lecture  
Grading: letter grade or pass/no pass  
This course will present an overview of LEED (Leadership in Energy and Environmental Design). The LEED rating system will be covered including: Sustainable Sites, Water Efficiency; Energy & Atmosphere; Materials & Resources and Indoor Environmental Quality. This course will provide preparation for the LEED Accredited Professional examination.

**JOURNALISM (JOURN)**

**JOURN 1A** **3.0 units**

**Digital Design and Publication**

2.0 hours lecture, 3.0 hours laboratory  
Grading: letter grade or pass/no pass  
In the course, students study and practice digital design and publication skills such as writing, editing, designing and producing websites, fliers, brochures, newsletters, small magazines and newspapers, using electronic publishing techniques.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**JOURN 1B** **3.0 units**

**Digital Design and Publication**

2.0 hours lecture, 3.0 hours laboratory  
Grading: letter grade or pass/no pass  
In this course, students study and practice advanced digital design publication skills such as writing, editing, designing and producing websites, fliers, brochures, newsletters, small magazines and newspapers using electronic publishing techniques.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**JOURN 5** **3.0 units**

**Introduction to Public Relations**

3.0 hours lecture  
Grading: letter grade  
This course includes instruction in fundamentals of publicity and public relations for community groups and business organizations. Students identify and discover sources, techniques and outlets to gain publicity. Students practice planning and preparing various types of publicity programs and press releases.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**JOURN 6AD** **3.0 units**

**Magazine Writing**

2.0 hours lecture, 3.0 hours laboratory  
Grading: letter grade or pass/no pass  
Students will analyze principles of magazine publication and methods of researching, writing, editing, and producing magazines of every type. Students will receive practical training and instruction in researching, interviewing, writing, editing, proofreading and headline writing.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**JOURN 10 (CAN JOUR 4)** **3.0 units**

**Intro to Global Media Communications**

3.0 hours lecture  
Grading: letter grade  
In this course students study the social, economic, political, and cultural influence of the mass media on the individual and society. The class is designed for all majors. In this course students study the social, economic, political, and cultural influence of the mass media on the individual and society. The class is designed for all majors. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**JOURN 20 (CAN JOUR 2)** **4.0 units**

**Beginning Newswriting and Reporting**

4.0 hours lecture  
Prerequisite: Eligibility for ENGL 1.  
Grading: letter grade  
Students will gain experience recognizing, researching and writing news stories, including college topics, breaking news, issues, government, elections, entertainment, sports, obituaries and profiles. Students will learn the importance of accuracy, the First Amendment, libel, media responsibility, fairness, balance and neutrality.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**JOURN 25 3.0 units**

**Free-Lance Writing**

3.0 hours lecture  
Grading: letter grade or pass/no pass  
This course offers training in the writing and marketing of Web site, newspaper, and magazine feature stories.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**JOURN 35AD 3.0 units**

**Photojournalism**

2.0 hours lecture, 3.0 hours laboratory  
Grading: letter grade  
This course offers instruction in basic and advanced photojournalism techniques and practical experience in newspaper photography. It is not open to students registered in or with credit in PHOT 35AD.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**JOURN 71AD 2.0 units**

**Work Experience, Journalism**

1.0 hour lecture, 4.1 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Grading: letter grade or pass/no pass  
This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**JOURN 72AD 3.0 units**

**Work Experience- Journalism**

1.0 hour lecture, 8.3 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Grading: letter grade or pass/no pass  
This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**JOURN 73AD 4.0 units**

**Work Experience- Journalism**

1.0 hour lecture, 12.5 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
Grading: letter grade or pass/no pass  
This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also

involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**JOURN 80AD 4.0 units**

**Multimedia Newsroom**

3.0 hours lecture, 3.0 hours laboratory  
Grading: letter grade or pass/no pass  
In the Multimedia Newsroom, students will produce material for a variety of electronic media outlets and the printed Viking newspaper. Students will gather news about Long Beach City College for stories, photos, videos, blogs, artwork, tweets, postings, informational graphics and other products under deadline pressures. The course will involve field work on campus to cover news about Long Beach City College.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**JOURN 85AD 4.0 units**

**Multimedia Editor Training**

3.0 hours lecture, 3.0 hours laboratory  
Grading: letter grade or pass/no pass  
Students will gain skills in editing a news Web site, other electronic products and a newspaper. Topics will include news judgment, directing reporters, photographers, bloggers and artists, copy editing, ethics and responsibility, headline writing, page design and selection and placement of photos and art for on-line formats and the printed newspaper. The class is designed for Viking news Web site and newspaper student editors and will require visits to campus settings outside of the classroom.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**LEARNING AND ACADEMIC RESOURCES (LEARN)**

**LEARN 11 3.0 units**

**Learning and Academic Strategies**

3.0 hours lecture, 0.2 hour supplemental learning  
Grading: pass/no pass  
This is a comprehensive learning and academic strategies course designed to assist students in developing an understanding of learning theories and academic principles, concepts, and strategies, along with their direct and practical application, with the goal of achieving or maximizing academic success. To assist students in gaining efficiency with the challenges of college learning and studying, students are required to complete 3 hours over the semester through a Success Center to complete activities and assignments that relate specifically to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**LEARN 11H 3.0 units**

**Honors Learning and Academic Strategies**

3.0 hours lecture, 3.0 hours supplemental learning

Prerequisite: Qualification for the Honors Program

Grading: pass/no pass

This is a comprehensive learning and academic strategies course, designed to assist students in developing an understanding of learning theories and academic principles, concepts, and strategies, along with their direct and practical application, with the goal of achieving or maximizing academic success. Eligibility for the Honors program is required for enrollment. To assist students in gaining efficiency with the challenges of college learning and studying, students are required to complete 3 hours of Supplemental Learning Assistance activities in designated Success Centers. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**LEARN 610 0.0 unit**

**Basic Study Skills Laboratory**

3.0 hours laboratory

Grading: LBCC Non-Graded Course

This is a non-credit course in basic study skills. This course covers a variety of basic learning and study skills including note-taking, test-taking, memory enhancement and time management. This course may be offered in a self-paced and individualized format or in a workshop format. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**LEARN 617 0.0 unit**

**Educational Technology Skills for College**

1.0 hour laboratory

Grading: LBCC Non-Graded Course

Through computer-assisted and individualized instruction in a laboratory environment, this course is designed to increase student knowledge of educational technology resources on campus, improve student use of educational technology for the successful completion of technology based course assignments, and improve student confidence in utilizing educational technology. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**LEARN 650 0.0 unit**

**Supervised Tutoring**

1.0 hour laboratory

Corequisite: Concurrent enrollment in an LBCC course.

Grading: LBCC Non-Graded Course

This course is designed to provide students with individual and small-group tutoring in specific subject areas to improve academic performance. Tutoring appointments will be scheduled, per the guidelines established by the specific location at which tutoring is offered, on a recurring, as-needed, and/or drop-in basis. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**LEARN 810AD 0.5 unit**

**Learning Skills**

0.3 hour lecture, 0.7 hour laboratory

Grading: pass/no pass

An open-entry Learning Center course providing individualized and small group instruction in basic learning and study skills, including time management, note-taking, memory techniques, textbook study and test-taking.

**LIBRARY (LIB)**

**LIB 1 1.0 unit**

**Intro to Libraries/Information Resources**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course teaches basic college-level research skills necessary for effective use of traditional and new information resources. Research strategies and evaluation of information resources are emphasized. The course covers the different levels, types, and formats of information, including the Internet. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**LIB 2 1.0 unit**

**Web Databases**

1.0 hour lecture

Grading: letter grade or pass/no pass

A hands-on introduction to Web databases and their structures, this course emphasizes evaluation of information, search strategies, and search techniques used to effectively access and retrieve information in the Web environment. This course will be beneficial for students who wish to develop vital information technology skills for both academic and professional purposes. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**LIB 3 3.0 units**

**Information Competency**

3.0 hours lecture

Grading: letter grade or pass/no pass

The course is designed to help students become an information-literate world citizen in the new seamless and global Information World. The course encompasses library literacy, information technology literacy, and Internet literacy. It encourages thought transformation, intelligent reasoning, and a new understanding of the world, including an appreciation of cultural diversity. The course has a well-balanced structure in practices and theories, with lectures, forum discussion in-class and online, computer lab activities and written research assignments. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**LIB 201 3.0 units**

**Introduction to Cataloging**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to teach students the valuable skills necessary to become qualified technicians. Topics will include: cataloging principles and procedures including descriptive and subject cataloging, classification systems, Machine Readable Cataloging (MARC) formats, bibliographic utilities, authority and bibliographic verification and control. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**LIB 202 3.0 units**

**Introduction to Access Services**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to teach students the valuable skills necessary to become qualified technicians. This course focuses on the major functions of library public and access services and topics will include: circulation management, collection maintenance, supervision of staff, confidentiality, intra and interlibrary loan, reserve collections, copyright laws, statistical design and compilation.

**LIB 203 3.0 units**

**Introduction to Acquisitions**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to teach students the valuable skills required to become qualified library technicians. This course focuses on the goals and functions of acquisitions and the topics will include: the basics of acquiring library materials; the financial management of materials budgets; vendors; and ethical considerations.

**LIB 204 3.0 units**

**Introduction to Reference Services**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to teach students the valuable skills necessary to become qualified technicians. This course introduces students to widely used print, non-print, and online sources in a variety of settings, and develops question-negotiation skills and search strategies. The topics will include the information needs of library users and the students will be empowered to function competently in the Information Age.

**LIB 210 1.0 unit**

**Information Literacy in Allied Health**

1.0 hour lecture

Grading: letter grade or pass/no pass

The course introduces students to health resources on the Internet and via subscription; it is designed for the general community and for students in the healthcare field who wish to expand their specialty knowledge base in order to gain a competitive edge and upgrade their job skills.

**LIB 211 1.0 unit**

**Information Literacy in Business**

1.0 hour lecture

Grading: letter grade or pass/no pass

The course introduces students to business resources on the Internet and via subscription; it is designed for the general community and for students in the business field who wish to expand their specialty knowledge base in order to gain a competitive edge and upgrade their job skills.

**LIB 212 1.0 unit**

**Information Literacy in Law**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course is beneficial to students enrolled in the Administration of Justice, Business Law, Legal Secretary, and Human Services programs, as well as law professionals and members of the general community who want to expand their knowledge in order to gain a competitive edge in the marketplace and upgrade their job skills.

**LIB 213 1.0 unit**

**Information Literacy in Government**

1.0 hour lecture

Grading: letter grade

This is a hands-on introductory course, which acquaints students with government-related resources available on the Internet. This course is beneficial to students enrolled in Political Science, Administration of Justice, and Human Services programs, as well as liberal arts students and members of the general community.

***MATHEMATICS (MATH)***

**MATH 27 (CAN MATH 2) 3.0 units**

**Probability and Statistics for Elementary Teachers**

3.0 hours lecture, 1.0 hour laboratory

Prerequisite: MATH 130, 130B, or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade, and MATH 120 or one year high school geometry or Qualification through the Math assessment process.

Grading: letter grade

Probability and Statistics for Elementary Teachers is a general education course that is strongly recommended for prospective elementary teachers. This activity-based course covers such topics as set theory, combinations, permutations, logic, probability and statistics.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 28 (CAN MATH 4) 3.0 units**

**Mathematics for Elementary Teaching I**

3.0 hours lecture, 1.0 hour laboratory

Prerequisite: MATH 130, 130B, or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade, and MATH 120 or one year high school geometry or Qualification through the Math assessment process.

Recommended Preparation: Eligibility for ENGL 1

Grading: letter grade

This course is one of several courses designed for prospective elementary teachers. Topics that are covered include pattern recognition, problem solving, sets, numeration systems, number theory and models and algorithms for operations with whole numbers, integers, rational numbers and decimals. Writing is

emphasized throughout the course. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 29 3.0 units**

**Math for Elementary Teaching II**

3.0 hours lecture, 1.0 hour laboratory

Prerequisite: MATH 28 and 120 or one year of high school geometry.

Grading: letter grade

This course is designed for prospective elementary teachers. Topics include basic geometric vocabulary and notation, constructions, congruence, similarity, measurement, the Pythagorean Theorem, motion geometry and tessellations. The problem solving process is emphasized throughout the course. The course incorporates group activities and exploration of topics with manipulatives. Writing is emphasized throughout the course. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 37 (CAN MATH 12) 3.0 units**

**Finite Mathematics**

3.0 hours lecture

Prerequisite: MATH 130, 130B or one year high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the math assessment process.

Grading: letter grade

This course is a study of linear equations, systems of linear equations and inequalities, matrices, matrix applications, sets and counting, probability, and statistics.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 37H 3.0 units**

**Honors Finite Mathematics**

3.0 hours lecture

Prerequisite: MATH 130, 130B or high school intermediate algebra with a grade of B or better as reflected by the second semester grade, or qualification through the math assessment process, and qualification for the Honors Program.

Grading: letter grade

This course is a study of linear equations, systems of linear equations and inequalities, matrices, matrix applications, sets and counting, probability, and statistics.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 40 (CAN MATH 8) 3.0 units**

**Trigonometry**

3.0 hours lecture

Prerequisite: MATH 130, 130B, or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade, and MATH 120 or one year high school geometry or Qualification through the Math assessment process.

Grading: letter grade

The topics covered in this course include right triangle trigonometry, circular functions, inverse functions, identities and formulas, graphing, trigonometric equations, the Law of Sines and the Law of Cosines, and complex numbers and polar coordinates.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MATH 45 (CAN MATH 10) 4.0 units**

**College Algebra**

4.0 hours lecture

Prerequisite: MATH 130, 130B or one year high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the math assessment process.

Grading: letter grade

This course covers advanced algebra topics, including linear, quadratic, polynomial, exponential and logarithmic functions; graphs of functions; inverse functions; systems of equations and inequalities; the Binomial Theorem; and conics. A graphing utility is required for this course. Students preparing for MATH 60 should take MATH 50 instead. This course is not open for credit to students registered in or with credit in MATH 50. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 47 (CAN MATH 34) 3.0 units**

**Calculus for Business**

3.0 hours lecture

Prerequisite: MATH 45 or MATH 50

Grading: letter grade or pass/no pass

This course is a study of differentiation of functions of one and several variables, optimization methods, integration of functions of one variable, exponential and logarithmic functions. This course will be appropriate for students who wish to pursue a career in business and economics.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 50 (CAN MATH 16) 5.0 units**

**Precalculus Math**

5.0 hours lecture

Prerequisite: MATH 40 or Qualification through the Math assessment process.

Grading: letter grade

This Course serves as a preparation for calculus. The topics covered include a review of algebra, polynomial, rational, exponential, logarithmic and trigonometric functions, applications of trigonometry including complex numbers and vectors, systems of equations and inequalities including matrices, sequences and series, and topics from analytic geometry.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 55 4.0 units**

**Discrete Mathematics**

4.0 hours lecture

Prerequisite: MATH 50 or a high school precalculus with a grade of B or better as reflected by the second semester grade.

Recommended Preparation: Knowledge of Java or CBIS 14.

Grading: letter grade

This is a one semester course in discrete math, intended for computer science related disciplines. The topics covered include logic, truth tables, set theory, techniques of proofs, recursive definitions, combinatorics, probability, and statistics.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MATH 60 (CAN MATH 18) (Pt CAN MATH SEQ) 5.0 units**

**First Calculus Course**

5.0 hours lecture

Prerequisite: MATH 50 or one year high school precalculus with a grade of B or better as reflected by the second semester grade or Qualification through the Math assessment process.

Grading: letter grade

Topics covered in this first semester calculus course include limits; differentiation rules for all basic functions, including exponential, logarithmic and inverse trigonometric functions; applications of differentiation including optimization problems, L'Hospital's Rule, and graphing; definite and indefinite integrals; and applications of integrals, including areas between curves, volumes, and work problems.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 70 (CAN MATH 20) (Pt CAN MATH SEQ) 5.0 units**

**Second Calculus Course**

5.0 hours lecture

Prerequisite: MATH 60

Grading: letter grade

This course is the second in the calculus sequence. Topics include Differential Equations, Applications of Integration, Integration Techniques, Improper Integrals, Sequences and Series, Parametric Equations and Polar Graphs.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 80 (CAN MATH 22) (Pt CAN MATH SEQ) 5.0 units**

**Third Calculus Course**

5.0 hours lecture

Prerequisite: MATH 70

Grading: letter grade

This course serves as the third course in the calculus sequence. Topics include vectors and the geometry of space, vector functions, partial derivatives, multiple integrals and vector calculus.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 84 4.0 units**

**Intro Differential Eqns and Linear Alg**

4.0 hours lecture, 1.0 hour laboratory

Prerequisite: MATH 80 (may be taken concurrently).

Grading: letter grade

This course is an introduction to the solutions of ordinary differential equations and their relationship to linear algebra. Topics include systems of linear equations, matrix algebra, determinants, vector spaces, linear transformations and linear second order differential equations. Other topics include power series solutions, numerical methods, Laplace transforms, eigenvalues, eigenvectors and systems of linear differential equations and applications. This course also has a lab component in which students use computers to complete projects related to the content.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MATH 110 5.0 units**

**First Course in Algebra**

5.0 hours lecture, 0.3 hour supplemental learning

Prerequisite: Qualification through the Math assessment process or MATH 815.

Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.

Grading: letter grade or pass/no pass

This is the first course in algebra. Topics in this course include solving linear equations and inequalities in one variable; graphing linear equations and inequalities in two variables; solving systems of linear equations; factoring; performing operations on polynomials, rational expressions, and radical expressions; and solving rational, radical, and quadratic equations.

Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may take either MATH 110 or Math 110A and Math 110B to fulfill the course requirement. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**MATH 110A 3.0 units**

**First Course in Algebra**

3.0 hours lecture, 1.0 hour laboratory, 0.3 hour supplemental learning

Prerequisite: Qualification through the Math assessment process or MATH 815.

Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.

Grading: letter grade or pass/no pass

This is the first of a two-semester sequence of the first course in algebra. Topics include solving linear equations and inequalities in one variable, graphing linear equations and inequalities in two variables, solving systems of linear equations, and simplifying polynomial and exponential expressions. Application problems are solved throughout the course. Group activities are incorporated within the lab portion of the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. The math requirement for an Associate of Arts degree is not satisfied by MATH 110A alone. A student may receive credit for either MATH 110 or 110A and 110B. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**MATH 110B 3.0 units**

**First Course in Algebra**

3.0 hours lecture, 1.0 hour laboratory, 0.3 hour supplemental learning

Prerequisite: MATH 110A

Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.

Grading: letter grade or pass/no pass

This is the second of a two-semester sequence of the first course in algebra. Topics include factoring, simplifying rational and radical expressions, solving rational and radical equations, and solving quadratic equations.



Application problems are solved throughout the course. Group activities are incorporated within the lab portion of the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may receive credit for either MATH 110 or Math 110A and 110B. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**MATH 120 4.0 units**

**Geometry**

4.0 hours lecture

Prerequisite: Qualification through the Math assessment process or MATH 110 or MATH 110B or MATH 880 or one year High School Elementary Algebra with a grade of B or better as reflected by the second semester grade.

Grading: letter grade or pass/no pass

This is a traditional Euclidean geometry course covering such topics as deductive reasoning, basic postulates and theorems, congruency, similarity, constructions, area, and volume.

**MATH 130 5.0 units**

**Intermediate Algebra**

5.0 hours lecture, 0.3 hour supplemental learning

Prerequisite: Qualification through the Math assessment process or MATH 110 or MATH 110B or MATH 880 or one year High School Elementary Algebra with a grade of B or better as reflected by the second semester grade.

Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.

Grading: letter grade or pass/no pass

This course continues the study of algebra in preparation for transfer level courses. Topics include polynomial, algebraic, quadratic, exponential and logarithmic functions; graphing; systems of equations and inequalities; factoring; rational expressions and equations; and roots, radicals and complex numbers. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**MATH 130A 3.0 units**

**Intermediate Algebra**

3.0 hours lecture, 0.3 hour supplemental learning

Prerequisite: Qualification through the Math assessment process or MATH 110 or MATH 110B or MATH 880 or one year High School Elementary Algebra with a grade of B or better as reflected by the second semester grade.

Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.

Grading: letter grade or pass/no pass

This is the first of a two-semester sequence of intermediate algebra. This course continues the study of algebra in preparation for transfer level courses. Topics include solving linear equations and inequalities; graphing functions and inequalities; solving systems of equations and inequalities; factoring; and solving rational equations. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any

designated Success Center. A student may receive credit for either Math 130 or 130A and 130B. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**MATH 130B 3.0 units**

**Intermediate Algebra**

3.0 hours lecture, 0.3 hour supplemental learning

Prerequisite: MATH 130A

Grading: letter grade or pass/no pass

This is the second of a two-semester sequence of intermediate algebra. This course continues the study of algebra in preparation for transfer level courses. Topics include radicals and complex numbers; quadratic functions; exponential and logarithmic functions; and conic sections. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may receive credit for either Math 130 or 130A and 130B. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**MATH 650 0.0 unit**

**Math Learning Center**

1.0 hour laboratory

Grading: LBCC Non-Graded Course

This course is designed to facilitate students’ learning of mathematics by offering one-to-one and small group tutoring. Students can also take advantage of multimedia instruction including videos and a variety of computer software programs. This course is recommended for all students concurrently enrolled in a LBCC mathematics course and is available in the open-access Math Success Center. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**MATH 805 4.0 units**

**Modern Arithmetic**

4.0 hours lecture

Grading: pass/no pass

The topics covered in this course include operations on whole numbers, fractions, and decimals; ratios and proportions; and percent problems. Application problems are solved throughout the course. This course is not applicable for degree credit. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**MATH 815 4.0 units**

**Preparation for Algebra**

4.0 hours lecture, 0.2 hour supplemental learning

Grading: pass/no pass

The topics covered in this course include the order of operations, operations with integers, the solution of linear equations, an introduction to graphing, operations with polynomials, and an introduction to the properties of exponential expressions. Applications of algebraic concepts are included throughout the course. This course is not applicable for degree credit. Students are required to complete 3 hours of supplemental learning activities in any designated Success Center. This course may be

scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**MATH 880 5.0 units**

**Review of Basic Algebra**

5.0 hours lecture, 0.3 hour supplemental learning

Grading: pass/no pass

This course is designed for students who have successfully completed a beginning algebra course but need a review of the course before enrolling in intermediate algebra. Topics include, but are not limited to, solving linear equations and inequalities; solving quadratic equations; graphing; solving rational and radical equations; and applications. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. This course is not applicable for degree credit. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

***MEDICAL ASSISTING (MA)***

**MA 270 3.0 units**

**Introduction to Medical Assisting**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade

This is the first course of three courses designed for prospective medical assistants. Topics will include instruction of procedures utilized by medical assistants. This includes the beginning level skills of asepsis, vital signs, health history, office emergencies, telephone techniques, patient education, and appointment scheduling. Typically offered for nine weeks.

**MA 280 3.0 units**

**Health Care Clinical Procedures**

2.0 hours lecture, 3.0 hours laboratory

Prerequisite: MA 270 and health evaluation.

Grading: letter grade

This is the second course of three courses designed for prospective clinical medical assistants. This course develops the skills required to assist the physician with instruction in the advanced level of psychosocial skills, surgical asepsis, assisting with minor surgery, specialty exams, patient positioning, drug administration, injections and basic pharmacology.

**MA 282 3.0 units**

**Advanced Health Care Clinical Procedures**

2.0 hours lecture, 3.0 hours laboratory

Prerequisite: MA 280

Grading: letter grade

This is the third of three courses designed for prospective clinical medical assistants. Topics will include instruction in the advanced level of psychosocial skills, electrocardiograph techniques, phlebotomy, and in office laboratory skills.

**MA 284AB 2.0 units**

**Medical Assisting Specialized Practicum**

6.0 hours laboratory

Prerequisite: MA 270

Recommended Preparation: MA 282

Grading: pass/no pass

This course is designed to give the student work experience in selected health care offices and/or clinics. Students in this course will experience the administrative and/or clinical aspects of Medical Assisting. This course is typically offered for nine weeks. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**MA 286 4.0 units**

**Medical Assisting Combined Practicum**

12.0 hours laboratory

Grading: pass/no pass

This course is designed to give the student work experience in selected health care offices and/or clinics. Students in this course will experience the administrative as well as the clinical aspects of Medical Assisting. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**MA 288 1.0 unit**

**Medical Assisting Practicum Seminar**

1.0 hour lecture

Corequisite: MA 284 or MA 286

Grading: letter grade

This course offers students in the Medical Assisting Program an advanced level of skills and theory, including office emergencies, professional office conduct, health care office management, resume writing and techniques utilized in job seeking.

**MA 290 3.0 units**

**Basic Medical Insurance Billing**

2.0 hours lecture, 3.0 hours laboratory

Grading: letter grade

This course is designed for prospective medical assistants and those students interested in medical insurance billing. This course will include medical insurance billing requirements, ICD-9, and CPT coding to successfully file claims and effect collection of payment for medical services given.

***MULTIMEDIA TECHNICIAN***

**MMT 201 3.0 units**

**M/M Literacy and Presentation Design**

2.0 hours lecture, 3.0 hours laboratory

Recommended Preparation: COMIS 1 or CPAS 1

Grading: letter grade

Students who take Multi-Media Literacy & Presentation Design will become acquainted with the process of developing educational multimedia projects and principles of multimedia literacy and interactive design. Students will create linear and web-based multimedia presentations and prepare a portfolio of design deliverables to be implemented in subsequent courses.

**MUSIC (MUSIC)**

**MUSIC 1A 3.0 units**

**Music Theory I**

3.0 hours lecture, 1.0 hour laboratory

Prerequisite: MUSIC 6

Grading: letter grade or pass/no pass

Music Theory I is designed for music majors, but is open to non-majors with musical performance experience. This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period: diatonic harmony, primary and secondary triads, non-harmonic tones, dominant seventh chords, four-part writing, figured bass, and early-species counterpoint. It is recommended that students co-enroll in Music 5AD. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 1B 3.0 units**

**Music Theory II**

3.0 hours lecture, 1.0 hour laboratory

Prerequisite: MUSIC 1A

Grading: letter grade or pass/no pass

Music Theory II is designed for music majors, but is open to non-majors with musical performance experience. This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period: dominant sevenths, other sevenths, secondary functions, modulation, small forms.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 2A 3.0 units**

**Music Theory III**

3.0 hours lecture, 1.0 hour laboratory

Prerequisite: MUSIC 1B

Grading: letter grade or pass/no pass

This course is designed for music majors, but is open to non-majors with musical performance experience. This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period: Neapolitans, Augmented 6th's, enharmonic spellings and modulations, extended chords, more altered chords, common-tone diminished sevenths, late-Romantic techniques. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 2B 3.0 units**

**Music Theory IV**

3.0 hours lecture, 1.0 hour laboratory

Recommended Preparation: Music 2A

Grading: letter grade

Music Theory IV is designed for music majors, but is open to non-majors with musical performance experience. This course covers the following topics through analysis and application of compositional practice of pieces from the common-practice period:

serial techniques, matrices, set-class theory, and other 20th century techniques.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 3 3.0 units**

**Music Theory — Counterpoint**

3.0 hours lecture, 1.0 hour laboratory

Prerequisite: MUSIC 1B

Grading: letter grade or pass/no pass

This course covers the counterpoint techniques of the 18th Century, including species counterpoint. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 5AD 1.0 unit**

**Musicianship I**

1.0 hour lecture, 2.0 hours laboratory

Recommended Preparation: Experience performing music and/or MUSIC 31 or 6

Grading: letter grade or pass/no pass

Musicianship I covers the techniques of music dictation and sight-singing with basic, tonal materials. Topics covered are scales, intervals, basic chord structures, and harmonic-melodic-rhythmic dictation. It is recommended that the student co-enroll in MUSIC 1A.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 6 3.0 units**

**Introduction to Music Theory**

3.0 hours lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course is a complete introduction to music fundamentals and basic musicianship. Traditional topics are covered such as notation, meter, scales, intervals, triads, and chords. This class is designed for both music majors and non-music majors. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 7AB 2.0 units**

**Elementary Voice**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

Elementary Voice is a performance class designed to improve singers of all ages and talent levels. Students will learn correct techniques in tone production, breathing, diction, repertoire and song interpretation. The student will also be able to develop their self confidence through class performance. This course is designed to meet the voice requirements of music majors. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 8AD 2.0 units**

**Advanced Voice**

1.0 hour lecture, 3.0 hours laboratory  
 Recommended Preparation: MUSIC 7AB  
 Grading: letter grade or pass/no pass

Advanced voice is a performance class designed to improve vocal techniques of the more accomplished singer. Students will be able to perform standard repertoire from classical literature which includes art songs and arias in English, German, French and Italian as well as vocal selections from Musical Theater. Students will be able to work with a professional accompanist, improve their vocal and musical technique and receive written critiques by the instructor. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 9AD 1.0 unit**

**Musicianship II**

1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: At least two units of MUSIC 5AD  
 Grading: letter grade or pass/no pass

This course covers the techniques of musical dictation and sight-singing with intermediate, tonal materials. Topics covered are intermediate scales, intervals, chord structures, and harmonic-melodic-rhythmic dictation.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 10AD 1.0 unit**

**Musicianship III**

1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: At least two units of MUSIC 9AD  
 Grading: letter grade or pass/no pass

This course covers the techniques of musical dictation and sight-singing with intermediate and semi-advanced, tonal materials. Topics covered are advanced scales, intervals, chord structures, and harmonic-melodic-rhythmic dictation.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 11AD 1.0 unit**

**Long Beach City College Viking Chorale**

2.0 hours lecture, 4.0 hours laboratory  
 Recommended Preparation: Prior vocal experience  
 Grading: letter grade or pass/no pass

This course involves the study and performance of the standard choral repertoire from all historical musical periods. Attendance at all rehearsals and performances is mandatory. It is advisable that participating students have some previous choral experience, though it is not required. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 12AD 1.0 unit**

**Long Beach City College Viking Singers**

2.0 hours lecture, 4.0 hours laboratory  
 Grading: letter grade or pass/no pass

This choir is a select ensemble with performances throughout the year. All periods and styles of choral music, especially classical chamber literature, are

performed. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 13AD 1.0 unit**

**College Symphony Orchestra**

2.0 hours lecture, 3.0 hours laboratory  
 Recommended Preparation: Prior instrumental experience

Grading: letter grade or pass/no pass  
 This course is a study of orchestral techniques through reading, rehearsal and performance of standard literature. Participation in performances is required. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 14AD 1.0 unit**

**Orchestra**

1.0 hour lecture, 3.0 hours laboratory  
 Recommended Preparation: Prior instrumental experience

Grading: letter grade or pass/no pass  
 This course is a study of orchestral techniques through reading, rehearsal, and performance of orchestral repertoire. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 15AD 1.0 unit**

**Chamber Orchestra**

1.0 hour lecture, 3.0 hours laboratory  
 Recommended Preparation: Prior instrumental experience.

Grading: letter grade or pass/no pass  
 This is a course that consists of reading, study and performance of standard repertoire for the small orchestra. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 16AD 1.0 unit**

**Musicianship IV**

1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: MUSIC 10AD

Grading: letter grade  
 This course covers the techniques of musical dictation and sight-singing with advanced, tonal and atonal materials. Topics covered are advanced scales, intervals, chord structures, and harmonic-melodic-rhythmic dictation.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 19AD**

**1.0 unit**

**Beginning Instruments**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

Beginning instruments entails instruction in the elementary and intermediate principles of playing woodwind, brass and percussion instruments. This class is not designed for the study of the student's major instrument, but for students who want to learn a new instrument. Reading music is not a requirement, and will be taught in the class. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 20AD**

**1.0 unit**

**LBCC Southland Chorale**

2.0 hours lecture, 4.0 hours laboratory

Recommended Preparation: Prior vocal experience.

Grading: letter grade or pass/no pass

The Viking Women's Chorale will perform choral music of all historical musical periods written or arranged for treble voices. Singers will perform repertoire including a'capella, secular and sacred, light opera and musical theatre works. The Women's Chorale involves participation in all concerts and performances. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 21AD**

**1.0 unit**

**LBCC Viking Women's Choir**

1.0 hour lecture, 2.0 hours laboratory

Recommended Preparation: Prior vocal experience.

Grading: letter grade or pass/no pass

The Viking Men's Chorale will perform choral music of all historical musical periods written or arranged for men's voices. Singers will perform repertoire including a'capella, secular and sacred, light opera and musical theatre works. The Viking Men's Chorale involves participation in all concerts and performances.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 22AD**

**1.0 unit**

**LBCC Viking Men's Choir**

1.0 hour lecture, 2.0 hours laboratory

Recommended Preparation: Prior vocal experience.

Grading: letter grade or pass/no pass

The Viking Men's Chorale will perform choral music of all historical musical periods written or arranged for men's voices. Singers will perform repertoire including a'capella, secular and sacred, light opera and musical theatre works. The Viking Men's Chorale involves participation in all concerts and performances.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 25AD**

**1.0 unit**

**Chamber Music Ensemble**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: Prior vocal or instrumental experience.

Grading: letter grade or pass/no pass

This course includes the study and performance of music for chamber ensembles including: brass ensemble, woodwind ensemble, percussion ensemble, string ensemble, and guitar ensemble. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 26AD**

**1.0 unit**

**String Ensemble**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: Prior instrumental experience.

Grading: letter grade or pass/no pass

This course serves as a study and performance of string literature. The course will include literature associated with both string orchestra and string chamber music and include literature from the Baroque, Classical and Romantic periods. The ensemble will perform 1 to 2 times a semester.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 27AD**

**1.0 unit**

**Brass Ensemble**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: Prior instrumental experience.

Grading: letter grade or pass/no pass

The brass ensemble rehearses and performs music of various periods for this particular medium. The group can range from a quintet to large double brass choirs. One concert performance is required each semester.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 30A**

**3.0 units**

**Music History: Antiquity to 1750**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a survey of music history and literature from antiquity to 1750, including cultural, intellectual and social influences. This course provides an in-depth examination of the development of Western European music through analysis and synthesizing of historical details and stylistic elements of the musical trends of the era. This course is offered in the Fall semester only.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 30B**

**3.0 units**

**Music History: 1750-Present**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a survey of music history and literature from 1750 to the present, including cultural, intellectual and social influences. This course provides an in-depth examination of the development of Western European music through analysis and synthesizing of historical details and stylistic elements of the musical trends of the era. This course is offered in the Spring semester only.

This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 31 3.0 units**

**Music Fundamentals**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course provides an introduction to the elements of music. It stresses an understanding of pitch and rhythm and their application to the creative process of personal music expression and understanding. This course is recommended for elementary credential candidates. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 32 3.0 units**

**History of Jazz**

3.0 hours lecture

Grading: letter grade

This one semester course is an overview on the development of the jazz tradition, tracing back to its African roots, and forward through the different styles, including blues, ragtime, swing, bebop, and post-bop. This course also focuses on the critical cultural and social issues associated with African-Americans and American history, and the role the musical developments played within the context of art as a reflection of society. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 33B 3.0 units**

**Intercultural Music**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a survey of various types of music from Latin America and the Caribbean. Students will learn to recognize numerous styles of music through rhythmic patterns, as well as the historical, geographic, and political dimensions of the genres, with emphasis on the contribution of African and European music on Latin styles.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 35 3.0 units**

**Music of Multicultural America**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a comparative and integrative study of the multicultural musical styles of the United States, based on the fundamental principles of music appreciation. Some of the musical topics included are the music of Native Americans, European Americans, African Americans, Chicano/Latino Americans, Asian Americans and Mid-Eastern Americans, from their historical roots to the present. Also, an analysis of musical traditions from a technical and cultural perspective; and a sequential development of listening

and descriptive skills through a variety of media including films, recordings and computer-assisted instruction. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 38AD 1.0 unit**

**Wind Ensemble**

2.0 hours lecture, 5.0 hours laboratory

Recommended Preparation: Prior instrumental experience.

Grading: letter grade or pass/no pass

This course involves the study and performance of music composed for small wind groups, as well as unusual combination of wind and percussion instruments, usually with one player per part. The musical literature represented includes the baroque, classical, romantic and twentieth century. Two concert performances are required each semester.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 40 3.0 units**

**Appreciation of Music**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course serves as a broad approach to musical literature and its place in the cultural development of western civilization. It is designed for the non-music major. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 40H 3.0 units**

**Honors Appreciation of Music**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course serves as a broad approach to musical literature and its place in the cultural development of western civilization. The course is designed for non-music majors.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 41AD 1.0 unit**

**Madrigal A Capella Choir**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: Prior vocal experience

Grading: letter grade or pass/no pass

This choir provides the study of vocal techniques and music reading through performance of a capella choral literature. Participation in several performances each semester is required. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 42AD 1.0 unit**

**Professional Advanced Vocal Ensembles**

1.0 hour lecture, 3.0 hours laboratory  
 Recommended Preparation: MUSIC 78AD and/or MUSIC 44AD

Grading: letter grade or pass/no pass  
 Jazz Standards and Pop Classics are studied and performed in advanced, small vocal groups, emphasizing the musical styles characteristic of this genre. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 44AD 1.0 unit**

**The Evening Jazz Choir**

2.0 hours lecture, 4.0 hours laboratory  
 Recommended Preparation: Prior vocal experience  
 Grading: letter grade or pass/no pass

Jazz standards and pop classics are studied and performed in a choral setting (Soprano, Alto, Tenor, Bass), emphasizing the musical styles characteristic of this genre. The choir is comprised of people within the community who usually work full-time in a non-related occupation and can rehearse and perform during the evening. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 45AD 1.0 unit**

**Gospel Music**

2.0 hours lecture, 3.0 hours laboratory  
 Grading: letter grade

This course covers the study and performance of Gospel Music including traditional, historic, contemporary, Praise and Worship styles. Emphasis will be directed to vocal techniques, genre, and the origin of Gospel Music. Key figures in the field will be studied. There will be a minimum of two concerts per semester.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 46AD 1.0 unit**

**College Symphonic Band**

2.0 hours lecture, 4.0 hours laboratory  
 Recommended Preparation: Prior instrumental experience.  
 Grading: letter grade or pass/no pass

This is a performance organization dedicated to the production of a wide variety of musical literature for the Wind Band. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 47AD 1.0 unit**

**Wind Symphony**

1.0 hour lecture, 3.0 hours laboratory  
 Recommended Preparation: Prior instrumental experience.

Grading: letter grade or pass/no pass  
 The Wind Symphony is a performance organization which seeks out, prepares and performs wind band literature from all periods and musical styles. While all repertoire is considered, the majority of music performed is somewhat more traditional in nature and tends to be focused more on mainstream 20th Century literature composed and transcribed for wind instruments. The instrumentation of the wind ensemble includes woodwinds, brass, and percussion. The ensemble will traditionally have two concerts a semester as well as go on a tour in the spring. Other concert opportunities may also arise. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 48AD 1.0 unit**

**Recording Band**

4.0 hours laboratory  
 Recommended Preparation: Prior instrumental experience.  
 Grading: letter grade or pass/no pass

This course provides students an opportunity to experience a professional recording situation, such as click-tracks, overdubbing and the study of microphone capabilities for live recording sessions. As well as learning recording techniques, students will perform at Long Beach City College athletic and academic events.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 49AD 1.0 unit**

**Viking Show Band**

2.0 hours lecture, 4.0 hours laboratory  
 Recommended Preparation: Prior instrumental experience.

Grading: letter grade or pass/no pass  
 The Viking Show Band will perform for all home football and basketball games as well as pep rallies, performances on campus, and at a variety of special activities in and around the Long Beach community. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 50AD 1.0 unit**

**Performance Showcase/Ensemble Workshop**

1.0 hour lecture, 3.0 hours laboratory  
 Grading: letter grade or pass/no pass

This course is the study of performing contemporary jazz styles through reading, rehearsal and performance in a group of variable instrumentation. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

<p><b>MUSIC 51A</b></p> <p><b>Beginning Piano 1</b> 2.0 hours lecture, 2.0 hours laboratory Grading: letter grade or pass/no pass This course is an introduction to beginning keyboard skills. It includes basic technique, major and minor five finger patterns, major scales, sight reading and basic chord progressions as they are encountered in beginning piano music. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>	<p><b>MUSIC 55AD</b></p> <p><b>Guitar</b> 1.0 hour lecture, 2.0 hours laboratory Grading: letter grade or pass/no pass This course provides beginning instruction in the guitar, using a classical approach to basic technique, musicianship, and repertoire. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>
<p><b>MUSIC 51B</b></p> <p><b>Beginning Piano 2</b> 2.0 hours lecture, 2.0 hours laboratory Prerequisite: MUSIC 51A Grading: letter grade or pass/no pass In this course, students refine and further develop beginning keyboard skills. This includes Piano technique, major scales and arpeggios, sight-reading, chord progressions and harmonization skills as encountered in upper-beginning/early intermediate piano music. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>	<p><b>MUSIC 56AD</b></p> <p><b>Intermediate Guitar</b> 1.0 hour lecture, 2.0 hours laboratory Prerequisite: MUSIC 55AD Grading: letter grade or pass/no pass This course provides intermediate/advanced instruction in the guitar, using a classical approach to advanced technique, musicianship, ensemble work, and repertoire. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>
<p><b>MUSIC 51C</b></p> <p><b>Intermediate Piano I</b> 2.0 hours lecture, 2.0 hours laboratory Prerequisite: MUSIC 51B Grading: letter grade This course will allow students to refine and develop beginning keyboard skills. Piano technique, major and minor scales and arpeggios, sight-reading, expanded chord progressions and harmonization skills are encountered in intermediate piano music. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>	<p><b>MUSIC 58AD</b></p> <p><b>College Philharmonia</b> 2.0 hours lecture, 3.0 hours laboratory Recommended Preparation: Prior successful orchestral experience. Grading: letter grade This course involves the study and performance of the orchestral repertoire and works by contemporary composers. It emphasizes ensemble techniques including articulation, balance, phrasing, expression and accompanying. Participation in two concerts per semester, at minimum, is required. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>
<p><b>MUSIC 52AD</b></p> <p><b>Advanced Piano</b> 2.0 hours lecture, 2.0 hours laboratory Prerequisite: MUSIC 51C Grading: letter grade or pass/no pass This course is a continuation of the technical skills and studies, sight reading, and piano literature of Music 51C, covering the intermediate to advanced levels, and exploring the interpretation of various musical styles from Baroque to Modern. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>2.5 units</b></p>	<p><b>MUSIC 59AD</b></p> <p><b>Digital Recording and Sampling Technique</b> 2.0 hours lecture, 3.0 hours laboratory Grading: letter grade or pass/no pass This class is a study of the digital recording and sampling techniques used in contemporary songwriting, music production, sound design and film scoring (i.e. remixes, rap music, pop, contemporary jazz, R&amp;B, sound effects, etc.). This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>
<p><b>MUSIC 60AD</b></p> <p><b>Pro Tools (Digital Audio Recording/Edit)</b> 2.0 hours lecture, 2.0 hours laboratory Grading: letter grade This course provides instruction on the functions and operations of Pro Tools software and a general overview of Pro Tools related hardware. The class instruction provides a hands-on experience through 'real-world' related assignments for students to record, edit and mix digital audio in a computer environment. Although the Pro Tools systems vary in specifications, features and price, the user interface for all systems is consistent and enables the student to translate learned skills to any high-end professional Digital Audio Workstation. This</p>	<p><b>2.0 units</b></p>		



course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 61AD 1.0 unit**

**Music Mastering**

1.0 hour lecture, 2.0 hours laboratory

Recommended Preparation: MUSIC 95

Grading: letter grade or pass/no pass

This course is a hands-on lecture/lab based class focusing on the processing of master mixdowns in preparation for the manufacturing of CD's, cassettes and LP's. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 62AD 1.0 unit**

**Commercial Guitar/Bass Stu (Beginning)**

1.0 hour lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course is the study and practice of the beginning techniques of guitar and bass as they are used and performed in studio and live performance.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 63AD 1.0 unit**

**Commercial Guitar/Bass Studies (Interm)**

1.0 hour lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course is the study and practice of the intermediate techniques of the guitar and bass as they are used and performed in the studio and live performances.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**MUSIC 65AD 2.0 units**

**Advanced-Pro Recording Techniques**

1.0 hour lecture, 4.0 hours laboratory

Prerequisite: MUSIC 95

Recommended Preparation: MUSIC 96AD

Grading: letter grade or pass/no pass

This hands-on class deals with advanced studio recording and mixdown techniques, as well as handling engineer/client relationships. Alternating semesters include 'weekend intensive' sessions; analog technologies, including 2" machine calibration and tape splicing; recording of orchestra or 'sectional' groups; production of an album from start to finish. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 66AD 2.0 units**

**Studio Mixdown Techniques**

1.0 hour lecture, 3.0 hours laboratory

Prerequisite: MUSIC 94

Recommended Preparation: Prior vocal or instrumental experience.

Grading: letter grade or pass/no pass

This course provides a hands-on approach into the complex techniques of the multi-track studio mixdown process, including the use of outboard gear, the placement of recorded components within the stereo spectrum, the aesthetic considerations in the final mix, and automated mixing. Both analog and digital domains are addressed. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 67AD 2.0 units**

**Studio Design**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

In this course students will create a recording studio design based on the evaluation of acoustical specifications, equipment needs and industry standards, space availability, budget requirements/limitations, and manufacturer equipment specifications.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 68 2.0 units**

**Basic Audio Theory**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to the theoretical and practical aspects of sound, recording studio and live sound reinforcement technology.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 69A 2.0 units**

**Analysis of Music Video**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course examines the development of different styles of music videos and their relationship to current music videos in today's music industry, and the techniques necessary to produce them.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 69B 2.0 units**

**Analysis of Music Video**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course examines the development of different styles of music videos and their relationship to current music videos in today's music industry, and the techniques necessary to produce them.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

<p><b>MUSIC 69C</b></p> <p><b>Analysis of Music Video</b> 2.0 hours lecture Grading: letter grade or pass/no pass This course examines the development of different styles of music videos and their relationship to current music videos in today's music industry, and the techniques necessary to produce them. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>	<p><b>MUSIC 74AD</b></p> <p><b>Solo Vocal Performance (Pop, Jazz, Rock)</b> 1.0 hour lecture, 4.0 hours laboratory Recommended Preparation: MUSIC 7AB Grading: letter grade or pass/no pass This course is a performance class designed to help singers of all ages and talent levels improve their craft by performing in front of a "live" audience. All genres (pop, rock, gospel, rap, classical and jazz) are welcome. Students will learn microphone techniques, work with a professional accompanist and/or prerecorded accompaniment tracks and receive written critiques by the instructor after each performance. All performances are recorded and returned to the student for artistic review. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>
<p><b>MUSIC 69D</b></p> <p><b>Analysis of Music Video</b> 2.0 hours lecture Grading: letter grade or pass/no pass This course examines the development of different styles of music videos and their relationship to current music videos in today's music industry, and the techniques necessary to produce them. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>	<p><b>MUSIC 75A</b></p> <p><b>The Music Business</b> 3.0 hours lecture Grading: letter grade or pass/no pass This course covers the study of how the music business system is structured and how it works. Job opportunities, job responsibilities and auxiliary jobs related to the music business will be surveyed and discussed. Students are directed towards research in their areas of interest. Guest speakers serve as industry resources. The course also includes an introductory study of music industry personalities covering historical, traditional and contemporary genres. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>
<p><b>MUSIC 70AD</b></p> <p><b>Studio Maintenance</b> 1.0 hour lecture, 3.0 hours laboratory Grading: letter grade or pass/no pass This course is a hands-on approach to the techniques necessary for successful performance in the maintenance of a recording studio and sound reinforcement equipment. Topics include troubleshooting, cable connections, equipment design and construction. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>	<p><b>MUSIC 75B</b></p> <p><b>The Music Business</b> 3.0 hours lecture Grading: letter grade or pass/no pass This course continues the study of how the music business system is structured and how it works. Job opportunities, job responsibilities and auxiliary jobs related to the music business will be surveyed and discussed. Students are directed towards research in their areas of interest. Guest speakers serve as industry resources. Music 75B also includes an advanced study of music industry personalities covering traditional and contemporary genres. Key music industry figures will be studied. This course also covers the techniques required to develop a resume and/or a portfolio. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>
<p><b>MUSIC 71AD</b></p> <p><b>Introduction to Music Technology</b> 1.0 hour lecture, 4.0 hours laboratory Grading: letter grade or pass/no pass This course is a comprehensive introduction to music technology. Historical and current uses of music technology including MIDI are covered. This class also covers basic music notation as it is used in music technology. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>	<p><b>MUSIC 76AD</b></p> <p><b>Recording Techniques Lab</b> 3.0 hours laboratory Grading: letter grade or pass/no pass This class is for Advanced Recording and Record Production students who wish to further their education through upper level individualized study. Topics may include: advanced level individual and group studio projects; production of a fully mastered CD duplication ready project; live and recorded location audio techniques; and other special projects as assigned by the instructor. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>
<p><b>MUSIC 72AD</b></p> <p><b>Com Improvisation/Arranging/Scoring</b> 1.0 hour lecture, 3.0 hours laboratory Grading: letter grade or pass/no pass This course is designed to prepare music students for careers in arranging and improvisation including composing and performance principles as they apply to the music industry. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>		

**MUSIC 77AD 1.0 unit**

**Studio Performance Techniques**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of instrumental performance techniques in a recording studio environment through rehearsal and performance of instrumental jazz literature. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 78AD 1.0 unit**

**Studio Singers**

2.0 hours lecture, 4.0 hours laboratory

Recommended Preparation: Prior vocal experience

Grading: letter grade or pass/no pass

Jazz Standards and Pop Classics are studied and performed in a choral setting (Soprano, Alto, Tenor, Bass), emphasizing the musical styles characteristic of this genre. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 80AD 1.0 unit**

**"City" Jazz Big Band**

1.0 hour lecture, 5.0 hours laboratory

Grading: letter grade or pass/no pass

This course is the study of big band techniques through reading, rehearsal and performance of standard literature. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 81AD 2.0 units**

**Commercial Keyboard**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course is designed to give students a practical approach to music on piano keyboard instruments, and at the same time, provide avenues for the improvement of keyboard skills such as music styles, harmony, improvisation and reading. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 82AD 2.0 units**

**Sound Reinforcement**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: MUSIC 94

Grading: letter grade or pass/no pass

This course provides hands-on instruction in the use of sound reinforcement equipment, including miking techniques for live sound, selection and assembly of live sound systems, and the development of mixing expertise in a live sound venue. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format.

Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 83AD 1.0 unit**

**Film/Video Music/Scoring**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course serves as a study of the various aspects of writing for video, motion pictures and television, including appropriate compositional techniques, stylistic considerations and an in-depth study of the use and application of computer technology in writing music for video and film media. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 84AD 2.0 units**

**Commercial Songwriting**

2.0 hours lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of contemporary songwriting principles and techniques. The course is designed to explore the use of state-of-the-art technology in the songwriting process and is appropriate for students who wish to pursue careers as songwriters, artists, producers and/or recording engineers. Students will be introduced to systematic analytical techniques that aid in the developmental skills related to the songwriting process. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 85AD 1.0 unit**

**Commercial Small Jazz Group**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: Prior instrumental experience

Grading: letter grade or pass/no pass

The Commercial Small Jazz Group is a music ensemble (either vocal or instrumental) formed to study and perform both classic and standard jazz repertoire. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 86AD 2.0 units**

**Record Production (Fundamentals)**

1.0 hour lecture, 6.0 hours laboratory

Prerequisite: MUSIC 94

Grading: letter grade or pass/no pass

This course provides continuing students the knowledge and hands-on techniques required to function as a producer in today's state-of-the-art recording studios. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

<p><b>MUSIC 87AD</b>  <b>Vocal Jazz Trios, Quintets, Octettes</b>                      1.0 hour lecture, 3.0 hours laboratory                      Recommended Preparation: Prior vocal experience.                      Grading: letter grade or pass/no pass                      This course is a study of challenging vocal arrangements of jazz standards and pop classics. There will be multiple concerts and performances during the semester. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>	<p><b>MUSIC 91AD</b>  <b>Special Studies</b>                      1.0 hour lecture, 3.0 hours laboratory                      Recommended Preparation: Prior vocal or instrumental experience                      Grading: letter grade or pass/no pass                      This course entails the directed study of special problems in music theory, composition, musicology, performance practice or organization and administration of instrumental or vocal ensembles. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>
<p><b>MUSIC 88AD</b>  <b>Small Studio Lab</b>                      3.0 hours laboratory                      Recommended Preparation: One semester of MUSIC 94, MUSIC 95, MUSIC 96AD or MUSIC 98AD                      Grading: letter grade or pass/no pass                      This course is a study of recording studio techniques. Students will explore the use of synthesizers, drum machines, digital effects units and computers in the small studio environment. The course is appropriate for students who wish to pursue careers as music producers, songwriters, and/or recording engineers. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>	<p><b>MUSIC 92AD</b>  <b>Applied Vocal &amp; Instrumental Music</b>                      10.0 hour laboratory                      Grading: letter grade or pass/no pass                      This course is designed for, but not limited to, music majors to gain experience in music performance for the purpose of transferring to a university music program. It is strongly recommended that students have instruction on either a keyboard instrument, voice, guitar or any standard instrument of the band or orchestra. The course includes performance of representative music literature from various periods and composers. The level of proficiency is determined by faculty adjudication. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>
<p><b>MUSIC 89</b>  <b>History of Rock</b>                      3.0 hours lecture                      Grading: letter grade or pass/no pass                      The History of Rock Music will be treated as a chronological study. This allows for brief overviews of society in periods and then illustrates how the music of a particular period either supports or contradicts societal views. Although the main emphasis of study will be from 1955 to the present, brief attention will be given to sixteenth through twentieth century musical history and form as it relates to this period. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>3.0 units</b></p>	<p><b>MUSIC 93AD</b>  <b>MIDI Music Production 2</b>                      1.0 hour lecture, 5.0 hours laboratory                      Prerequisite: MUSIC 98AD                      Grading: letter grade or pass/no pass                      This course provides a hands-on approach into the production of records, tape and CDs utilizing computer technology and MIDI based musical devices. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>
<p><b>MUSIC 90AD</b>  <b>Commercial Music Theory</b>                      1.0 hour lecture, 3.0 hours laboratory                      Grading: letter grade or pass/no pass                      This course is a study of Diatonic and Nondiatonic harmony as used in commercial/contemporary music. Course instruction includes the study of basic music, scales/keys, intervals, common chord structures, Circle of Fifths, chord progressions, standard song forms, lead sheets and song analysis. The course is designed to accommodate students with and without a formal music background. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>	<p><b>MUSIC 94</b>  <b>Beginning Recording Techniques</b>                      2.0 hours lecture, 2.0 hours laboratory                      Grading: letter grade or pass/no pass                      This course offers hands-on instruction for beginners in the use of multi-track recording systems, emphasizing critical listening skills, and the development of a recording project. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>2.0 units</b></p>

**MUSIC 95**

**2.0 units**

**Intermediate Recording Techniques**

2.0 hours lecture, 2.0 hours laboratory

Prerequisite: MUSIC 94

Grading: letter grade or pass/no pass

This is an intermediate level recording theory and production class. Topics include hands-on instruction in the applications of a multi-track studio, use of out-board gear, signal flow, trouble-shooting, and session etiquette, with an emphasis on miking techniques. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 96AD**

**2.0 units**

**Advanced Recording Techniques**

1.0 hour lecture, 4.0 hours laboratory

Prerequisite: MUSIC 95

Grading: letter grade or pass/no pass

This class provides hands-on instruction in advanced recording techniques, including the use of a digital multi-track studio, studio mixing techniques, studio etiquette, dealing with musicians, and mixing at the advanced level, including the advanced use of out-board gear. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 97AD**

**2.0 units**

**Tools of the Music Trade**

2.0 hours lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course covers the study of state of the art technology, skills, principles, methods and terminology used in the creation of contemporary music. Students are directed in detailed Internet research that is designed to foster and enhance their understanding and knowledge of industry tools currently in use. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 98AD**

**2.0 units**

**MIDI Music Production 1**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course provides a hands-on approach to the programming of synthesizers, drum machines, and sequencers in a Macintosh based studio setting. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 200AB**

**3.0 units**

**Lister-Sink Keyboard Technique Method**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: MUSIC 92AD and/or MUSIC 52AD

Grading: letter grade or pass/no pass

This course is designed to give the keyboard player practical and theoretical knowledge of the fundamentals of a holistic, injury-preventive technique. It will address biomechanics, keyboard mechanics, wellness, and instruction in the fundamentals of healthful sound production through the Lister-Sink Method. Students apply principles of injury-preventive technique to basic keyboard exercises, studies and graduated repertoire.

**MUSIC 271AD**

**2.0 units**

**Work Experience-Music**

1.0 hour lecture, 4.1 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**MUSIC 272AD**

**3.0 units**

**Work Experience-Music**

1.0 hour lecture, 8.3 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**MUSIC 273AD**

**4.0 units**

**Work Experience-Music**

1.0 hour lecture, 12.5 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**NURSING, ASSOCIATE DEGREE**  
**NURSING- RN (ADN)**

**ADN 11A 2.5 units**

**Introduction to Nursing**

2.5 hours lecture

Prerequisite: Hospital agency requires CPR certification for health care providers. ANAT 1, PHYSI 1, BIO 2, and ENGL 1 or 105 or ESL 34.

Corequisite: PSYCH 1 or SOCIO 1 (may be taken as a prerequisite)

Grading: letter grade or pass/no pass

The course is an introduction to the basic concepts of the Self-Care Theory of Nursing by Dorothea Orem. Included are the basic knowledge, skills and attitudes necessary to meet or to assist in meeting the universal self-care requisites of the hospitalized adult. Also included are the fundamental concepts upon which subsequent courses in the nursing program are built.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 11AL 1.5 units**

**Introduction to Nursing Lab**

4.5 hours laboratory

Prerequisite: ENGL 1, ENGL 105 or ESL 34 and BIO 60, BIO 60L, and CDECE 47. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 11A

Grading: letter grade or pass/no pass

The course includes on-campus lab practice and application of the course content in clinical nursing situations. This lab course aligns with the course content presented in ADN 11A.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 11B 2.5 units**

**Health Deviations 1**

2.5 hours lecture

Prerequisite: ADN 11A and ADN 11AL.

Grading: letter grade or pass/no pass

This course is an introduction to deviations in health of the adult client. It emphasizes the health deviation self-care requisites of intake of air, intake of water, balance of activity and rest. Collaborative problems are added to previously learned information about the nursing process; as well as medication administration, oral and injected. The course places an emphasis on teaching safety and communication for the hospitalized patient.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 11BL 1.5 units**

**Health Deviations 1 Lab**

4.5 hours laboratory

Prerequisite: ADN 11A and ADN 11AL. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 11B

Grading: letter grade or pass/no pass

This course includes on-campus lab practice and application of the course content in clinical nursing situations. Skill activities include oral and injected drug administration, respiratory, abdominal and lower leg assessment and related skills. This course may be scheduled using the "To Be Arranged" (TBA)

scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 12A 2.5 units**

**Health Deviations 2**

2.5 hours lecture

Prerequisite: ADN 11B and ADN 11BL.

Grading: letter grade or pass/no pass

This course is the second medical-surgical nursing course in the program. The effects and results of specific health deviations and treatment modalities upon the surgical patient will be studied. Emphasis is placed on the collaborative management of nursing care including the professional role, communication, safety and Orem's Self-Care Theory as it relates to the nursing process with the middle aged adult in the surgical setting. Must be enrolled in this course before attempting to enroll in ADN 12AL.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 12AL 1.5 units**

**Health Deviations 2: Lab**

4.5 hours laboratory

Prerequisite: ADN 11B and 11BL. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 12A. You must first enroll in the corequisite course before you attempt to enroll in this class.

Grading: letter grade or pass/no pass

This laboratory course includes both on-campus laboratory practice and application of course content in the live nursing situation. Skill activities include intravenous therapy, medical and surgical aseptic practices and selected physical assessments. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 12B 2.5 units**

**Health Deviations 3**

2.5 hours lecture

Prerequisite: ADN 12A and ADN 12AL.

Grading: letter grade or pass/no pass

This course continues to explore the professional role of the nurse and patient demands for increased care necessitated by health deviations in the hospitalized adult. The content emphasizes the nursing process using Orem's Self-Care Theory, specifically the requisites of sufficient intake of water and food, elimination, and excretion. Focus is placed on collaborative management of care, communication, safety, and critical thinking in assuming the expanding the role of the registered nurse. Additionally, the effects of specific pathological health deviations and medical treatment modalities for the medical patient are studied with attention to teaching and learning. Must be enrolled in this course before attempting to enroll in ADN 12BL.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 12BL 1.5 units**

**Health Deviations 3: Lab**

4.5 hours laboratory

Prerequisite: ADN 12A and 12AL. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 12B. You must first enroll in the corequisite course before you attempt to enroll in this course.

Grading: letter grade or pass/no pass

This course provides on-campus lab practice and application of course content utilizing Orem's Self-Care Theory and the nursing process in the live nursing situation. Skill activities include intravenous therapy, physical assessments, and medical and surgical aseptic practice with related skills. Students assume the professional role of the registered nurse while collaborating and managing the safe care of a multiple patient assignment in the medical areas of the acute care facilities. Communication, teaching and learning, and critical thinking skills are emphasized. This course may be scheduled using the "To Be Arranged" (TBA)

scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 20A 1.0 unit**

**Transition to Second Level Nursing**

1.0 hour lecture

Prerequisite: ANAT 1, PHYSI 1, BIO 2, ENGL 105 or ENGL 1 or ESL 34 CPR Certification for health care providers.

Corequisite: ADN 202AD.

Grading: letter grade or pass/no pass

This course is designed to prepare advanced placement licensed vocational nursing students for second level Registered Nursing content. The major foci are Orem's Self Care Theory of Nursing and the application of the nursing process as a second level practitioner.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 21A 2.5 units**

**Women's Health**

2.5 hours lecture

Prerequisite: ADN 12B and ADN 12BL or ADN 20A and CPR certification for health care providers.

Corequisite: ADN 31A. You must first enroll in the corequisite course before you attempt to enroll in this class.

Grading: letter grade or pass/no pass

This course emphasizes Orem's Theory of developmental self-care requisites, health deviations and universal self-care requisites as it relates to women and newborns. The content involves the study of gynecological problems, deviations from normal pregnancy, care during prenatal, intrapartal, and postpartal periods, of normal and high risk pregnancy. In addition the assessment and care of the normal newborn is included.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 21AL 3.0 units**

**Women's Health Lab**

9.0 hours laboratory

Prerequisite: ADN 20A and CPR certification.

Corequisite: ADN 21A. You must first enroll in the corequisite course before you attempt to enroll in this class.

Grading: letter grade or pass/no pass

This course applies the course content in a live nursing situation. It includes on-campus/clinical lab practice and testing of required skills in perinatal units, newborn nursery, GYN and community setting. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 21B 2.5 units**

**Mental Health**

2.5 hours lecture

Prerequisite: ADN 12B, ADN 12BL or ADN 20A .

Grading: letter grade or pass/no pass

This course is a study of Theory of nursing by Orem as it relates to mental health and/or mental illness in the client with acute/chronic debilitating diseases. Emphasis is placed on communication skills which is the focus of the course.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 21BL 3.0 units**

**Mental Health Lab**

9.0 hours laboratory

Prerequisite: ADN 12B and ADN 12BL or ADN 20A.

Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 21B

Grading: letter grade or pass/no pass

This laboratory course includes both on and off campus labs that provide an opportunity to practice and apply the theory content in simulated and live nursing situations. The primary emphasis is placed on the application of theory and communication skills in both the psychiatric and medical-surgical acute care settings. Skill activity includes, IV venipuncture, group participations and varies communication techniques. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 22A 2.5 units**

**Adv Nursing I Critical Care Life Span**

2.5 hours lecture

Prerequisite: ADN 21A and ADN 21AL and ADN 21B and ADN 21BL and CPR certification for health care providers.

Corequisite: ADN 22AL and ADN 31B.

Grading: letter grade or pass/no pass

This course emphasizes Orem's Theory of developmental self-care requisites, health deviations, and universal self-care requisites as it relates to critically ill adults and ill children. The content involves the study of critical illness in adults and illness in children.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 22AL 3.0 units**

**Adv Nursing I-Critical Care Life Span Lab**  
 9.0 hours laboratory  
 Prerequisite: ADN 21 and ADN 21AL and ADN 21B and ADN 21BL and CPR certification for health care providers.  
 Corequisite: ADN 22A. You must first enroll in the corequisite course before you attempt to enroll in this course.  
 Grading: letter grade or pass/no pass  
 The activities for this laboratory course include on-campus practice and application, in acute care hospitals and outpatient settings, of course content in critical care and pediatrics taught in ADN 22A. The course emphasizes the educative/supportive role of the nurse. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 22B 2.5 units**

**Advanced Nursing II Role Transition**  
 2.5 hours lecture  
 Prerequisite: ADN 22A and ADN 22AL or ADN 322A.  
 Grading: letter grade or pass/no pass  
 This course provides the opportunity to integrate all previously learned theories and skills. Advanced geriatric content and leadership theory is utilized in a primary or team nursing setting on various hospital shifts, and in the home health settings. The major emphasis is placed on the role transition from student to graduate nurse.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 22BL 3.0 units**

**Adv Nursing II-Role Transition Lab**  
 9.0 hours laboratory  
 Prerequisite: ADN 22A and ADN 22AL or ADN 322A.  
 Compliance with all clinical agency health and safety policies is required the first day of the course.  
 Corequisite: ADN 22B  
 Grading: letter grade or pass/no pass  
 This laboratory course provides the opportunity to integrate all previously learned theories and skills in the clinical setting. It incorporates advanced geriatric content and leadership theory in a primary or team nursing setting on various hospital shifts and in the home health setting. The major emphasis is on the role transition from student to graduate novice nurse. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 31A 1.0 unit**

**Trends in Nursing A**  
 1.0 hour lecture  
 Corequisite: ADN 21A, ADN 21AL, ADN 21B and ADN 21BL  
 Grading: letter grade or pass/no pass  
 This course is designed for students to study the trends and issues which effect current nursing practice. The major foci include the evolution of nursing, professional opportunities for the practice of nursing, the legal and ethical relationships in nursing, the economics of health

care, the interpersonal relationships among health care professionals and current issues. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 31B 1.0 unit**

**Trends in Nursing B**  
 1.0 hour lecture  
 Prerequisite: ADN 31A  
 Corequisite: ADN 22A, ADN 22AL, ADN 22B and ADN 22BL  
 Grading: pass/no pass  
 This course is designed to continue the study of the trends and issues in nursing. The major foci includes: Preparation for licensure, communication, development of a personal philosophy of nursing, the professional role of the nurse, professional employment, educational and volunteer opportunities. It also includes critical thinking, safety and collaboration.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 200AD 0.5 unit**

**Nursing Skills Adjunct Laboratory**  
 1.5 hours laboratory  
 Grading: pass/no pass  
 This course allows self-paced, individualized instruction in basic bedside nursing skills and advanced nursing skills, with supervised practice to improve performance and is designed for students in the RN program, students approved for re-entry, individuals who are currently licensed as LVNs and/or foreign graduate nurses.

**ADN 201AD 0.5 unit**

**Nursing Skills Adjunct Laboratory**  
 1.5 hours laboratory  
 Grading: pass/no pass  
 This course allows self-paced, individualized instruction in first semester basic bedside nursing skills with supervised practice to improve performance. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADN 202AD 0.5 unit**

**Nursing Skills Adjunct Laboratory**  
 1.5 hours laboratory  
 Grading: pass/no pass  
 This course allows self-paced, individualized instruction in second semester medical and surgical nursing skills with supervised practice to improve performance. This course builds on skills practiced in ADN 201AD. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADN 203AD 0.5 unit**

**Nursing Skills Adjunct Laboratory**  
 1.5 hours laboratory  
 Grading: pass/no pass  
 This laboratory course allows self-paced, individualized instruction in maternal-child and mental health nursing skills with supervised practice to improve performance.



This laboratory builds on skills practiced in ADN 202AD. It is designed for students in the RN program, students approved for re-entry, individuals who are currently licensed as LVNs and/or foreign graduate nurses. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**ADN 204AD 0.5 unit**

**Nursing Skills Adjunct Laboratory**

1.5 hours laboratory

Grading: pass/no pass

This course allows self-paced, individualized instruction in advanced medical-surgical, critical care and pediatric nursing skills with supervised practice to improve performance. It builds on skills practiced in ADN 203AD. This course is designed for students in the RN program, students approved for re-entry, individuals who are currently licenses as LVNs and/or foreign graduate nurses. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**ADN 212AD 2.0 units**

**Clinical Practicum I**

6.0 hours laboratory

Prerequisite: ADN 11A and ADN 11B. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 12A or ADN 12B

Grading: pass/no pass

This course will provide student nurse experiences in approved health care agencies through a Board of Registered Nursing approved program. The purpose of this course is to apply theory and principles taught in the classroom to the clinical setting. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**ADN 221AD 2.0 units**

**Clinical Practicum II**

6.0 hours laboratory

Prerequisite: ADN 12A and ADN 12B. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 21A or ADN 21B

Grading: pass/no pass

This course will provide student nurse experiences in approved health care agencies through a Board of Registered Nursing approved program. The purpose of this course is to apply theory and principles taught in the classroom to the clinical setting. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**ADN 222AD 2.0 units**

**Clinical Practicum III**

6.0 hours laboratory

Prerequisite: ADN 21A and ADN 21B. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 22A or ADN 22B

Grading: pass/no pass

This course will provide student nurse experiences in approved health care agencies though the Board of Registered Nursing. The purpose of this course is to apply theory and principles taught in the classroom to the clinical setting.

**ADN 225 3.0 units**

**Nursing Applications of Pharmacology**

3.0 hours lecture

Recommended Preparation: READ 82 and MATH 110 or MATH 110B or High School Algebra.

Grading: letter grade

This course introduces the study of drugs and drug administration as a part of health care. Representative drugs are classified into large sets so that relationships can be recognized and remembered. General principles of drug actions and interactions, both therapeutic and undesirable, are the basis for the study of individual drugs. Administration of medications, including dosage calculation, is emphasized. Not open for credit to students registered in or with credit in VN 225. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**ADN 235A 1.5 units**

**Maternal/Newborn Nursing**

1.5 hours lecture

Prerequisite: ADN 12B and ADN 12BL or ADN 20A and CPR certification for health care providers.

Grading: letter grade

This course emphasizes Orem’s theory of developmental self-care requisites, health deviations and universal self-care requisites as it relates to women and newborns. The content involves the study of gynecological problems, deviations from normal pregnancy, care during prenatal, intrapartal, and postpartal periods, of normal and high risk pregnancy. In addition the assessment and care of the normal newborn is included.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 235AL 1.5 units**

**Maternal/Newborn Nursing Lab**

4.5 hours laboratory

Prerequisite: ADN 20A and CPR certification.

Corequisite: ADN 235A

Grading: letter grade

This course applies the course content in a live nursing situation. It includes on-campus/clinical lab practice and testing of required skills in perinatal units, newborn nursery, GYN and community setting. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 235B 1.5 units**

**Pediatric Nursing**

1.5 hours lecture

Prerequisite: ADN 12B and ADN 12BL or ADN 20A and CPR certification for health care providers.

Grading: letter grade

This course emphasizes Orem’s Self-Care Theory of developmental self-care requisites, health deviations, and universal self-care requisites as it relates to ill

children. The content involves the study of illness in children.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 235BL 1.5 units**

**Pediatric Nursing Laboratory**

4.5 hours laboratory

Prerequisite: ADN 20A and CPR Certification.

Corequisite: ADN 235B

Grading: letter grade

The activities for this laboratory course include on-campus practice and application, in acute care hospitals and outpatient settings, of course content in pediatric nursing taught in ADN 235B. The course emphasizes the educative/supportive role of the nurse. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 245A 2.5 units**

**Advanced Medical/Surgical Nursing**

2.5 hours lecture

Prerequisite: ADN 235A and ADN 235AL and ADN 235B and ADN 235BL and ADN 21B and ADN 21BL and CPR certification for health care providers.

Grading: letter grade

This course emphasizes Orem's Self-Care Theory, in particular health deviations as it pertaining to the nursing care of acutely ill and critically ill adults. The content involves the study of critical illness in the adult patient.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 245AL 3.0 units**

**Advanced Medical/ Surgical Nursing Lab**

9.0 hours laboratory

Prerequisite: ADN 235A and ADN 235AL and ADN 235B and ADN 235BL and ADN 21B and ADN 21BL and a CPR certification for health care providers.

Corequisite: ADN 245A. You must first enroll in the corequisite course before you attempt to enroll in this course

Grading: letter grade

The course emphasizes the educative/supportive role of the nurse, collaboration and communication among the health care team, safe nursing care, and the utilization of all previously learned skills. The activities for this laboratory course include: 1. On-campus lab practice and application 2. Clinical practice in an acute hospital setting and critical care units. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 321A 1.5 units**

**Women's Health & Advanced Obstetrics**

1.5 hours lecture

Prerequisite: ADN 20A and CPR certification for health care providers.

Grading: letter grade or pass/no pass

This course is designed to fulfill the women's health and advanced obstetrics nursing requirement for the thirty-unit option only. The major focus is nursing care

of the adult client in the gynecological surgical units and high-risk obstetrical units, including care of the high-risk infant. It emphasizes the educative supportive role of the nurse.

**ADN 321AL 1.5 units**

**Women's Health & Adv Obstetrics Lab**

5.0 hours laboratory

Prerequisite: ADN 20A and CPR certification for health care providers.

Corequisite: ADN 31A and ADN 321A

Grading: letter grade or pass/no pass

This course applies the course content in a live nursing situation. It includes on-campus/clinical lab practice and testing of required skills in perinatal units, newborn nursery, GYN, and community setting.

**ADN 322A 1.5 units**

**Advanced Nursing I-Adult Critical Care**

1.5 hours lecture

Prerequisite: ADN 321A and ADN 21B and ADN 21BL and CPR certification for health care providers.

Grading: letter grade or pass/no pass

This course is designed to fulfill the advanced medical/surgical nursing requirements for the 30-unit option student. The major focus of the course is nursing care of the adult patient in the critical care setting. It emphasizes the educative/supportive role of the nurse.

**ADN 322AL 1.5 units**

**Adv Nursing I-Adult Critical Care Lab**

5.0 hours laboratory

Prerequisite: ADN 321A and ADN 21B and ADN 21BL and CPR certificate for health care providers.

Corequisite: ADN 31B and ADN 322A. You must first enroll in the corequisite course before you attempt to enroll in this class.

Grading: letter grade or pass/no pass

This course is designed to fulfill the advanced medical/surgical nursing requirements for the 30-unit option only. The major focus is nursing care of the adult patient in the critical care setting. This course will emphasize the educative/ supportive role of the nurse.

**ADN 430 2.5 units**

**NCLEX-RN Preparation Course**

2.5 hours lecture

Prerequisite: Letter of Eligibility to take NCLEX-RN or Authorization to test (ATI) letter from BRN.

Grading: letter grade

This course is designed to prepare the graduate nurse to pass the NCLEX-RN. The content includes medical, surgical, pediatrics, nursing of the child-bearing family, mental health, pharmacology, critical thinking, community health and leadership refresher course.

**ADN 600 0.0 unit**

**Health Care Learning Center**

15.0 hours laboratory

Corequisite: Current enrollment in a health care program course.

Grading: LBCC Non-Graded Course

A non-credit course designed to augment classroom instruction and to improve student achievement through self-paced multi-media programs. Through the use of modern teaching machines, materials and methods, the student can receive personalized instruction beginning at his present level and progressing at his own speed.

**ADN 610 0.0 unit**

**Nursing Skills Refresher Laboratory**

0.7 hour laboratory

Grading: LBCC Non-Graded Course

This course is designed to provide students with individual and small-group instruction in basic bedside nursing skills and advanced bedside nursing skills. Supervised practice is available on a recurring, as needed, and/or drop-in basis to improve performance levels. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**ADN 810 0.5 unit**

**Preparation for Nursing**

0.5 hour lecture

Grading: pass/no pass

This course is designed for a beginning nursing student with no previous experience in health care. The course supports the beginning nursing student in the development of effective study habits and test-taking skills, the study of common nursing terms, abbreviations and symbols, and reading drug labels that are basic to nursing. In addition it prepares the student for calculation of drug dosages.

***NURSING, VOCATIONAL NURSING  
(VN)***

**VN 215 6.0 units**

**Fundamentals of Nursing**

3.5 hours lecture, 7.5 hours laboratory, 0.2 hour supplemental learning

Recommended Preparation: READ 883 and MATH 805

Grading: letter grade

This combined lecture/lab course is designed to prepare students to perform basic-fundamental nursing skills required in the care of residents in long-term/skilled nursing facilities. Content includes safety principles, physical care, emotional support and infection control. Upon completion of the course, the student qualifies for the certified nursing assistant (CNA) written and performance examination to be administered at regional testing centers. Students are required to complete 4 hours of supplemental learning activities in a Success Center over the course of the semester. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**VN 220 4.0 units**

**Transition to Vocational Nursing**

3.0 hours lecture, 3.0 hours laboratory

Prerequisite: BIO 60 and VN 225 or ADN 225

Recommended Preparation: Qualification through the Reading assessment process or READ 82.

Grading: letter grade

This combined lecture/ campus lab course is designed to prepare students for success in the vocational nursing program. Content includes critical thinking & problem solving, communication, cultural competency, professional roles and responsibilities, and developmental levels across the lifespan. Additional topics include learning styles, nursing terminology, nutrition, basic documentation, dosage calculation, and health and safety policies required for VN program

admission. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**VN 222 1.0 unit**

**Intravenous Therapy**

0.5 hour lecture, 1.5 hours laboratory

Prerequisite: VN 255 or VN 265, or licensed as a vocational nurse (LVN).

Grading: pass/no pass

This course is designed for instruction and supervised practice of the concepts and techniques of Intravenous therapy. The course is designed to meet the California Board of Vocational Nursing and Psychiatric Technicians (BVNPT) Intravenous Certification. This course is designed for students who have completed the Vocational Nursing Program and are preparing for licensure. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**VN 225 3.0 units**

**Nursing Applications of Pharmacology**

3.0 hours lecture

Recommended Preparation: READ 82 and MATH 110 or MATH 110B or high school algebra.

Grading: letter grade

This is an introductory course into the study, classification and management of commonly prescribed drugs. The principles of medication administration including typical nursing responsibilities, and dosage calculation are included. A strong foundation in math skills is required for dosage calculations. This course is not open for credit to students who have completed ADN 225. ADN 225 and VN225 are equivalent courses. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**VN 230 3.0 units**

**Common Health Deviations 1**

3.0 hours lecture

Prerequisite: VN 220, VN 225, and BIO 60.

Grading: letter grade

Admission to the program is required prior to enrolling in this first clinical course of the vocational nursing program. The course includes the nursing concepts of the nursing process, Orem's self-care theory, disuse syndrome, skin integrity/wound care, activity and rest, altered nutrition, and risk for injury and fluid and electrolytes. Other topics include pathophysiology and nursing care for patients with diabetes, cardiovascular problems and respiratory disorders.

**VN 230L 3.5 units**

**Common Health Deviations 1 Lab**

10.5 hour laboratory

Corequisite: VN 230

Grading: pass/no pass

This course provides opportunity for nursing students to practice the concepts learned in VN230 in a hospital or sub-acute setting. The campus lab content includes basic data collection and health assessment, preparation of nursing care plan, nursing documentation, oxygen therapy, and medication administration. Compliance with all clinical agency policies is required the first day of the course. This course may be scheduled using the

“To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**VN 235 3.0 units**

**Common Health Deviations 2**

3.0 hours lecture

Prerequisite: VN 230

Grading: letter grade

This course provides the theoretical basis for the provision of nursing care for patients before and after surgical procedures. The course continues to develop the concepts of nursing process and Orem’s self-care theory that were introduced in VN 230. Additionally, this course covers the nursing concepts of pain management, body image disturbances, and nutritional support. Other topics include pathophysiology and nursing care for patients with health deviations that include the musculoskeletal system, gastrointestinal system, immune system, urinary-renal system, Hepatic-biliary, and infectious diseases.

**VN 235L 3.5 units**

**Common Health Deviations 2 Lab**

10.5 hour laboratory

Corequisite: VN 235

Grading: pass/no pass

This course provides opportunity for nursing students to practice the concepts of medical-surgical units including perioperative nursing care, learned in VN 235. The clinical setting is both medical and surgical and perioperative nursing care units. Topics presented in the campus nursing lab include skills required for care of surgical and medical patients. Compliance with all clinical agency policies is required the first day of the course. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**VN 240 3.0 units**

**Mental Health Nursing**

3.0 hours lecture

Grading: letter grade

This course is designed to assist vocational nursing students with self-development and with acquisition of behaviors needed to provide a helping relationship with their patients. Topics include principles of personality development, psychosocial development, psychopharmacology, common mental health deviations, and major psychiatric illnesses.

**VN 245 2.0 units**

**Maternal-Infant Nursing**

2.0 hours lecture

Prerequisite: VN 230 and VN 230L

Grading: letter grade

This course provides instruction in the normal developmental phases of the child-bearing family and the most common related problems. Orem’s self-care theory and the nursing process are continued in the study of prenatal, perinatal, and postpartum nursing care.

**VN 245L 1.0 unit**

**Maternal-Infant Nursing Lab**

3.0 hours laboratory

Corequisite: VN 245

Grading: pass/no pass

This course provides opportunity for nursing students to provide prenatal, perinatal, and postnatal nursing care in both hospital and ambulatory care facilities. Campus lab content includes data collection and routine care of the postpartum mother and her newborn. Compliance with all clinical agency policies is required the first day of this course.

**VN 250 2.0 units**

**Nursing Care of Children**

2.0 hours lecture

Prerequisite: VN 230 and VN 230L

Grading: letter grade

This course provides instruction in the growth and development of normal children along with the most common health problems of childhood and adolescence. Orem’s self-care theory and the nursing process are applied to the study of health promotion and disease prevention for children and adolescents.

**VN 250P 1.0 unit**

**Nursing Care of Children Practicum**

3.0 hours laboratory

Corequisite: VN 250

Grading: pass/no pass

This course provides opportunity for nursing student to provide nursing care for child-rearing families in ambulatory care clinics. Campus lab content includes application of the principles of growth and development. Compliance with all clinical agency health and safety policies is required the first day of the course.

**VN 255 3.0 units**

**Common Health Deviations 3**

3.0 hours lecture

Prerequisite: VN 235 and 235L

Grading: letter grade

This course is the third medical surgical nursing course in the program. Orem’s theory of self-care and the nursing process is continued in the study of vocational nursing concepts. Pathophysiology and nursing care of the following health deviations are studied: female reproductive, male urinary & reproductive, sexually transmitted diseases, basic emergent and cardiac deviations, advanced fluid and electrolyte balance, oncological, hematologic, neuro-sensory, thyroid & adrenal disorders.

**VN 255L 3.5 units**

**Common Health Deviations 3 Lab**

10.5 hour laboratory

Corequisite: VN 255

Grading: pass/no pass

This course provides opportunity for nursing students to become more proficient in the nursing care of patients with medical surgical problems. Students practice with staff vocational and registered nurses to develop beginning competency in the role of the vocational nurse in acute care facilities. Compliance with all clinical agency health and safety policies is required the first day of the course. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**VN 260 1.5 units**

**Roles and Responsibilities**

1.5 hours lecture

Prerequisite: VN 240

Grading: pass/no pass

This course is designed to assist the vocational nursing student in the transition to the responsibilities of the graduate vocational nurse. Topics include the ethical, legal, regulatory, leadership, and policy issues that control the practice of vocational nursing in California. Opportunity is provided for career planning, including job skills and application for licensure.

**VN 265 3.0 units**

**Common Health Deviation-4**

3.0 hours lecture

Corequisite: VN 255

Grading: letter grade

This is normally the last clinical course of the vocational nursing program. Orem's theory of self-care and the nursing process is continued. Geriatric and Adult health deviations commonly requiring chronic health care are studied. Other topics include leadership and supervisory roles of vocational nurses in long term and restorative or rehabilitation, and disaster preparation.

**VN 265L 3.0 units**

**Common Health Deviation-4 Lab**

9.0 hours laboratory

Corequisite: VN 265

Grading: pass/no pass

This course provides opportunity for students to apply nursing theory regarding chronic illness to the care of older adults/Geriatric population in long term care settings, such as nursing homes, skilled nursing, sub-acute, and rehabilitation. Compliance with all clinical agency health and safety policies is required the first day of the course. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**VN 266AD 0.5 unit**

**Nrsg Skills Practice Lab-Adv**

1.5 hours laboratory

Grading: pass/no pass

This course provides self-paced and individualized instruction and practice in a campus nursing laboratory setting. Students are encouraged to attend and practice nursing skills, and prepare for post-graduate nursing which includes blood withdrawal for vocational nursing. This course may be offered in the last semester of the vocational nursing program. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**PHILOSOPHY (PHIL)**

**PHIL 3 3.0 units**

**Intro to Issues/Phil, Psych & Religion**

3.0 hours lecture

Grading: letter grade or pass/no pass

Using a point/counterpoint debate format, a teaching team, composed of a philosopher and a psychologist, compare and integrate insights from three disciplines — philosophy, psychology and religion in a critical investigation of theoretical positions, such as Platonic

idealism, Christian theology, Freudian analysis, Skinnerian behaviorism, existentialism and other major intellectual viewpoints. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 6 (CAN PHIL 2) 3.0 units**

**Introduction to Philosophy**

3.0 hours lecture

Grading: letter grade or pass/no pass

This introductory philosophy course explores perennial questions in philosophy dealing with metaphysics, epistemology, and axiology. Philosophical discussions that answer these questions in various ways will be critically analyzed. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 6H 3.0 units**

**Honors Introduction to Philosophy**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This introductory philosophy course explores perennial questions in philosophy dealing with metaphysics, epistemology, and axiology. Philosophical discussions that answer these questions in various ways will be critically analyzed.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 7 (CAN PHIL 4) 3.0 units**

**Introduction to Ethics**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course examines the nature of morality and the application of moral principles. Topics covered include moral theories from the history of philosophy and their applications to contemporary moral issues such as abortion, euthanasia, animal rights, censorship, and capital punishment. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 7H 3.0 units**

**Honors Introduction to Ethics**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course examines the nature of morality and the application of moral principles. Topics covered include moral theories from the history of philosophy and their applications to contemporary moral issues such as abortion, euthanasia, animal rights, censorship, and capital punishment.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 8 3.0 units**

**Introduction to Non-Western Philosophy**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course provides a broad introduction to some of the main philosophical traditions from around the world, such as Buddhism, Taoism, African Philosophy, and American Indian Philosophy. The major themes to be examined include the nature of reality, the meaning of life, the role of the individual and society, and the effects of history and culture on belief systems.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 9 3.0 units**

**Introduction to Existentialism**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course will examine the philosophical thought of existentialist writers such as Kierkegaard, Dostoevsky, Nietzsche, and Sartre. Emphasis will be placed on the analysis of recurring themes such as freedom, individuality, meaning and value, and the existence of God.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 10 3.0 units**

**Introduction to Feminist Philosophy**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course will examine feminist readings on philosophical issues in metaphysics, epistemology, and axiology. This exploration will occur through the examination of theories as well as pragmatic activities of feminists.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 11 3.0 units**

**Critical Thinking**

3.0 hours lecture

Grading: letter grade or pass/no pass

This class focuses on the improvement of practical reasoning skills. Students will be required to improve their reasoning skills and will learn to detect and avoid common argument fallacies. Students will develop the knowledge and habits needed to make decisions between conflicting ideas and beliefs. Applications are made to both contemporary and perennial issues, such as current political events, the news media, science vs. pseudoscience and capital punishment.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 12 (CAN PHIL 6) 3.0 units**

**Introduction to Logic**

3.0 hours lecture

Grading: letter grade or pass/no pass

Introduction to Logic focuses on informal and formal logic. Informal logic will focus on basic concepts in argumentation, the ways that arguments can be erroneous, and various types of inductive reasoning. Formal deductive logic will cover basic concepts of both categorical and sentential logic, including, but not limited to, Venn diagrams, The Squares of Opposition, truth tables, and natural deduction. All of the tools of formal deductive logic are designed to equip students to assess arguments. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please

see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 14 3.0 units**

**Philosophy of Religion**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course examines the philosophical themes within the world's religions. Central questions include: Does God exist? How can God be known? What is God's nature? Why is there evil? Can conflicting religions still be true? The emphasis will focus on understanding and critically analyzing the claims of the world's religions.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 15 3.0 units**

**Introduction to Political Philosophy**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course examines some of the main issues within political philosophy. Topics include the justification of political authority, the ideal state, distributive justice, and the rights and responsibilities of citizens.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHIL 16 3.0 units**

**Introduction to Business Ethics**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course will examine ethical issues in business. Topics will include environmental concerns, the distribution of wealth, informational ethics, privacy and autonomy, and affirmative action. These will be discussed in the context of moral theories such as utilitarianism, deontology and ethical egoism.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHIL 22 3.0 units**

**Symbolic Logic**

3.0 hours lecture

Grading: letter grade

This course is an introduction to the formal techniques of evaluating arguments. The emphasis is on developing symbolic techniques, including sentential and quantificational, for representing and evaluating ordinary language arguments.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHOTOGRAPHY (PHOT)**

**PHOT 1 2.0 units**

**The Photographic Vision**

2.0 hours lecture

Grading: letter grade or pass/no pass

This course is a speakers and critique series which introduces students to a broad range of photographic visions. The class will also provide the student with the skills necessary to critically evaluate and discuss the photograph. Technical information will be used to give students a deeper understanding of the photographer's vision.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 10**

**3.0 units**

**History of Photography**

3.0 hours lecture

Recommended Preparation: Qualification through the English assessment process at the ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.

Grading: letter grade or pass/no pass

This course surveys the history of photography from its inception to the present digital age. It explores photography as a form of visual communication in historical, socio-political, cultural and aesthetic contexts. Students will develop visual literacy through verbal and written analysis. Museum and gallery field trips are required. This course is appropriate for art majors and non-art majors.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHOT 31AB**

**3.0 units**

**Basic Photography-Black and White**

2.0 hours lecture, 6.0 hours laboratory

Grading: letter grade or pass/no pass

This is a comprehensive course for the beginning photography student. The course emphasizes practical applications in the use of the camera, natural lighting and the darkroom. Emphasis is on traditional techniques with an introduction to digital cameras, editing and printing.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 32AD**

**3.0 units**

**Basic Photography-Color**

2.0 hours lecture, 6.0 hours laboratory

Recommended Preparation: ART 31

Grading: letter grade or pass/no pass

This is an introductory course that develops a technical proficiency and an aesthetic awareness of the creative uses of digital and traditional color photography, including color design theory, composition, perceptual and psychological aspects of color. Through an integration of historical references, critical examination of images and their associated aesthetics, practical experiences, and personal ambition, the student is encouraged to develop a more insightful and sophisticated comprehension of color photography and its contributions to the communicative processes of the visual vocabulary.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 33AD**

**4.0 units**

**Photography Studio Lighting**

2.0 hours lecture, 6.0 hours laboratory

Prerequisite: One semester of PHOT 31AB or PHOT 32AD or ART 81AD

Grading: letter grade or pass/no pass

This is a comprehensive course in studio photography with major emphasis on larger format cameras, studio composition and lighting techniques. The course utilizes primarily digitally-based techniques with an overview of traditional methods. It is part of the vocational program in photography as well as the general fine arts curriculum.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 34AD**

**4.0 units**

**Advanced Photography-Applications**

2.0 hours lecture, 6.0 hours laboratory

Prerequisite: One Semester of PHOT 32AD and PHOT 33AD

Grading: letter grade or pass/no pass

This is an comprehensive studio course for the advanced student of photography. The major emphasis is centered around continuing to build complex problem solving in studio photography for professional uses.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 35AD**

**3.0 units**

**Photography for Publication**

2.0 hours lecture, 4.0 hours laboratory

Prerequisite: One semester of PHOT 31AB or one semester of ART 81AD

Grading: letter grade or pass/no pass

This is a comprehensive course in basic and advanced photojournalism techniques. Students will gain practical experience in photography for publication in newspapers and magazines. This class is not open to students registered in or with credit in JOURN 35AD.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 37AD**

**4.0 units**

**Portrait Photography**

2.0 hours lecture, 6.0 hours laboratory

Prerequisite: One semester of PHOT 31AB or PHOT 32AD or ART 81AD

Grading: letter grade or pass/no pass

This is a comprehensive course for the beginning and advanced student of portraiture with a special emphasis on the use of portrait photography as a career or creative path.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 38**

**3.0 units**

**Marketing Professional Photo Skills**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a study of the application of current practices utilized in marketing professional photographic skills. Topics includes freelance marketing, design and use of a portfolio, and professional photographic business practices.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 39AD**

**3.0 units**

**Photography on Location**

2.0 hours lecture, 6.0 hours laboratory

Prerequisite: One semester of PHOT 31AB or PHOT 32AD or ART 81AD

Grading: letter grade or pass/no pass

This is a comprehensive occupational course in exterior location photography. The subjects covered will include: documentary, landscape, environmental and product photography for annual reports, stock photography, public relations, advertising and editorial publications.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 40AD 3.0 units**

**Mastering the Photographic Print**  
 2.0 hours lecture, 4.0 hours laboratory  
 Prerequisite: One semester of ART 81AD or PHOT 31AB  
 Recommended Preparation: PHOT 43AD  
 Grading: letter grade or pass/no pass  
 This is a comprehensive visual arts course for the advanced student of photography. Emphasis is on crafting high quality photographic output which would include prints, portfolios and books. Students will practice traditional and digital methods of capture, processing and printing.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 41AD 4.0 units**

**Professional Photographic Portfolio**  
 2.0 hours lecture, 6.0 hours laboratory  
 Prerequisite: One semester of PHOT 31AB or PHOT 32AD or ART 81AD  
 Recommended Preparation: PHOT 33AD  
 Grading: letter grade or pass/no pass  
 This course is a comprehensive course designed for the advanced student in photography. The emphasis is on development of a professional portfolio for use in a photographic career. Emphasis is also placed on digital and traditional image-bank management skills such as: archiving, storage and organization.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 42AD 4.0 units**

**Experimental Photography Laboratory**  
 2.0 hours lecture, 6.0 hours laboratory  
 Prerequisite: PHOT 31AB or ART 81AD  
 Grading: letter grade or pass/no pass  
 This course emphasizes experimental solutions to conceptual visual problems in photography. The class is a comprehensive advanced lab course for students enrolled in the photography program or persons who have a background in photography and wish to improve their skills. This class includes both traditional and digital mediums.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 43AD 3.0 units**

**Digital Photography**  
 2.0 hours lecture, 4.0 hours laboratory  
 Recommended Preparation: PHOT 31AB or PHOT 32AD or ART 81AD and ART 41  
 Grading: letter grade or pass/no pass  
 This is a comprehensive digital photography course designed to train students in the application of electronic media and its use in manipulating and creating photographic images. The course includes digital capture, editing and output. Topics include: the fundamentals of Color Management, development of a successful digital workflow and the basics of image-bank management.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 71AD 2.0 units**

**Work Experience — Photography**  
 1.0 hour lecture, 4.1 hours laboratory  
 Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass  
 This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to photography. One unit of field work credit will be granted for every 75 hours of paid work or 60 hours of volunteer work per semester. This class includes 1 unit of field work. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 72AD 3.0 units**

**Work Experience — Photography**  
 1.0 hour lecture, 8.3 hours laboratory  
 Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
 Grading: letter grade or pass/no pass  
 This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to photography. One unit of field work credit will be granted for every 75 hours of paid work or 60 hours of volunteer work per semester. This class includes 2 units of field work. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 73AD 4.0 units**

**Work Experience — Photography**  
 1.0 hour lecture, 12.5 hours laboratory  
 Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
 Grading: letter grade or pass/no pass  
 This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to photography. One unit of field work credit will be granted for every 75 hours of paid work or 60 hours of volunteer work per semester. This class includes 3 units of field work. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHOT 281AD 1.0 unit**

**Photography Laboratory**  
 3.0 hours laboratory  
 Grading: letter grade or pass/no pass  
 This class is designed for students enrolled in the photography program or students who have a background in photography and wish to improve their skills. The course emphasizes practical applications in traditional and digital photographic techniques.



**PHOT 291AD 1.0 unit**

**Advanced Photography Laboratory**

3.0 hours laboratory

Grading: letter grade or pass/no pass

The course is for advanced students enrolled in the photography program or students who have a background in photography and wish to improve their skills. The course emphasizes practical applications in digital and traditional photographic techniques.

**PHOT 681 0.0 unit**

**Fundamentals of Photography Laboratory**

6.0 hours laboratory

Grading: LBCC Non-Graded Course

This class is a lab for the beginning photo student or persons who have a background in photography and wish to improve their skills. The emphasis is on practical applications of image processing, including digital and traditional technologies. This class is intended for senior citizens.

**PHYSICAL EDUCATION, ADAPTED (PEA)**

**PEA 1AD 1.0 unit**

**PE for the Physically Limited**

3.0 hours laboratory

Grading: letter grade

This course is designed to produce a program of individual and group exercises and physical activities that develop motor patterns and perceptual-motor skills, endurance, strength and self-awareness. All activities will be adapted to the interests, capabilities and limitations of each student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEA 608 0.0 unit**

**Physical Educ for Physically Limited**

4.0 hours laboratory

Grading: LBCC Non-Graded Course

This course is part of a program of developmental activities, games, sports and rhythms suited to the interest, capabilities and limitations of students with disabilities who may not safely or successfully engage in unrestricted activities of the general physical education program. Participation in this course will be predicated upon medical findings and working with medical supervision, guidance and advice. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**PHYSICAL EDUCATION, GENERAL (PEG)**

**PEG 9AD 0.5 unit**

**Badminton**

2.0 hours laboratory

Grading: letter grade

Instruction will include a brief history of badminton; its terminology, rules, conditioning, strokes, footwork, tactics, and strategies utilized in single and doubles play. *Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 10AD 1.0 unit**

**Badminton**

3.0 hours laboratory

Grading: letter grade

This course is designed to provide instruction in the fundamentals of badminton including a brief history of badminton; its terminology, rules, conditioning, strokes, footwork, tactics, and strategies utilized in single and doubles play.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 11AD 0.5 unit**

**Baseball**

2.0 hours laboratory

Grading: letter grade

This course is designed to provide instruction in the fundamentals of baseball including strategy, rules, and the skills of catch play, hitting and baserunning.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 12AD 1.0 unit**

**Baseball**

3.0 hours laboratory

Grading: letter grade

This course is designed to provide instruction in the fundamentals of baseball including strategy, rules, and the skills of catch play, hitting and baserunning.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 13AD 0.5 unit**

**Basketball**

2.0 hours laboratory

Grading: letter grade

This course is designed to provide an overview of the sport of basketball with focus on instruction in the rules, techniques and strategies.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 14AD 1.0 unit**

**Basketball**

3.0 hours laboratory

Grading: letter grade

This course is designed to provide an overview of the sport of basketball with focus on instruction in the rules, techniques and strategies.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

<p><b>PEG 19AD</b></p> <p><b>Bowling</b> 2.0 hours laboratory Grading: letter grade This course is designed to provide instruction in the fundamentals of bowling, including strategy, rules, and the skills of bowling. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>0.5 unit</b></p>	<p><b>PEG 66AD</b></p> <p><b>Self-Defense</b> 3.0 hours laboratory Grading: letter grade The course covers safety, defense, techniques and practical applications of martial art skills for self-defense, psychological defenses and assertiveness training in a technical and practical framework. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>
<p><b>PEG 20AD</b></p> <p><b>Bowling</b> 3.0 hours laboratory Grading: letter grade This course is designed to provide instruction in the fundamentals of bowling including strategy, rules, and the skills of bowling such as foot work, ball placement and grip. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>	<p><b>PEG 69AD</b></p> <p><b>Soccer</b> 2.0 hours laboratory Grading: letter grade This course is designed to provide an overview of the sport of soccer with focus on instruction in the rules, techniques and strategies. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>0.5 unit</b></p>
<p><b>PEG 31AD</b></p> <p><b>Golf</b> 2.0 hours laboratory Grading: letter grade This course is designed to provide instruction in the fundamentals of golf including strategy, rules, and the skills of the swing, course management, and etiquette. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>0.5 unit</b></p>	<p><b>PEG 70AD</b></p> <p><b>Soccer</b> 3.0 hours laboratory Grading: letter grade This course is designed to provide an overview of the sport of soccer with focus on instruction in the rules, techniques and strategies. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>
<p><b>PEG 32AD</b></p> <p><b>Golf</b> 3.0 hours laboratory Grading: letter grade This course is designed to provide instruction in the fundamentals of golf including strategy, rules, and the skills of the swing, course management, and etiquette. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>	<p><b>PEG 73AD</b></p> <p><b>Softball</b> 2.0 hours laboratory Grading: letter grade This course is designed to provide instruction in the game of softball including strategy, rules, and the skills of throwing, hitting and catching. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>0.5 unit</b></p>
<p><b>PEG 55AD</b></p> <p><b>Lifeguard/Water Safety Training</b> 3.0 hours lecture, 3.0 hours laboratory Recommended Preparation: Advanced swimming ability Grading: letter grade This is a certification course for American Red Cross water safety instructors and lifeguards. This course enables students to instruct swimming courses and to serve as lifeguards at aquatic facilities. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>4.0 units</b></p>	<p><b>PEG 74AD</b></p> <p><b>Softball</b> 3.0 hours laboratory Grading: letter grade This course is designed to provide instruction in the fundamentals of softball including strategy, rules, and the skills of throwing, hitting and catching. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>
<p><b>PEG 65AD</b></p> <p><b>Self-Defense</b> 2.0 hours laboratory Grading: letter grade The course covers safety, defense, techniques and practical applications of martial art skills for self-defense, psychological defenses and assertiveness training in a technical and practical framework. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>0.5 unit</b></p>	<p><b>PEG 75AD</b></p> <p><b>Swimming</b> 2.0 hours laboratory Grading: letter grade This course is designed to provide instruction in the fundamentals of swimming including basic skills, strategies, rules, stroke mechanics and techniques. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>0.5 unit</b></p>
<p><b>PEG 65AD</b></p> <p><b>Self-Defense</b> 2.0 hours laboratory Grading: letter grade The course covers safety, defense, techniques and practical applications of martial art skills for self-defense, psychological defenses and assertiveness training in a technical and practical framework. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>0.5 unit</b></p>	<p><b>PEG 76AD</b></p> <p><b>Swimming</b> 3.0 hours laboratory Grading: letter grade This course is designed to provide instruction in the fundamentals of swimming including basic skills, strategies, rules, stroke mechanics and techniques. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>1.0 unit</b></p>

**PEG 83AD 0.5 unit**

**Tennis**

2.0 hours laboratory  
Grading: letter grade

This course is designed to provide instruction in the fundamentals of tennis, including strategy, rules, the forehand and backhand groundstrokes, and the serve.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 84AD 1.0 unit**

**Tennis**

3.0 hours laboratory  
Grading: letter grade

This course is designed to provide instruction in the fundamentals of tennis, including strategy, rules, the forehand and backhand groundstrokes, and the serve.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 85AD 0.5 unit**

**Touch Football**

2.0 hours laboratory  
Grading: letter grade

This course offers instruction in the rules, strategies and proper techniques required by the game of touch football. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 86AD 1.0 unit**

**Touch Football**

3.0 hours laboratory  
Grading: letter grade

This course offers instruction in the rules, strategies, and proper techniques required by the game of touch football.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 87AD 0.5 unit**

**Track & Field**

2.0 hours laboratory  
Grading: letter grade

This course incorporates instruction in the rules, techniques and strategies of track and field.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 88AD 1.0 unit**

**Track & Field**

3.0 hours laboratory  
Grading: letter grade

This course incorporates instruction in the rules, techniques and strategies of track and field. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 89AD 0.5 unit**

**Volleyball**

2.0 hours laboratory  
Grading: letter grade

This course is designed to provide instruction in the basic fundamentals in volleyball including setting, passing, hitting, and team play.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEG 90AD 1.0 unit**

**Volleyball**

3.0 hours laboratory  
Grading: letter grade

This course is designed to provide instruction in the basic fundamentals of volleyball including setting, passing, hitting, and team play.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHYSICAL EDUCATION, OUTDOOR STUDIES (PEOS)**

**PEOS 5AD 1.0 unit**

**Backpacking**

4.0 hours laboratory  
Grading: letter grade

This is a course in wilderness travel and living with three to nine days of field experience. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEOS 44AD 2.0 units**

**Sailing 1**

1.0 hour lecture, 3.0 hours laboratory  
Grading: letter grade

This course is designed to provide the basic fundamentals of sailing including strategy, rules and the skills of boarding procedures, rigging procedures, and maneuvering the boat.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEOS 55AD 0.5 unit**

**Cross Country (Nordic) Skiing**

2.0 hours laboratory  
Grading: letter grade

This course will cover instruction and practice in cross-country ski techniques, including an exercise program, dry land drills, proper ski equipment, clothing and accessories for ski tours, ski waxing, conditioning, nutrition, tour planning, wilderness hazards, safety and wilderness conservation.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEOS 56AD 1.0 unit**

**Cross Country (Nordic) Skiing**

3.0 hours laboratory  
Grading: letter grade

This course will cover instruction and practice in cross-country ski techniques, including an exercise program, dry land drills, proper ski equipment, clothing and accessories for ski tours, ski waxing, conditioning,

nutrition, tour planning, wilderness hazards, safety and wilderness conservation.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEOS 58AD 1.0 unit**

**Basic Rock Climbing**

3.0 hours laboratory

Grading: letter grade

Basic Rock Climbing is an introductory course with instruction and skills development in the techniques of rope handling, use of knots, natural and artificial protection, anchoring, belays, and rappels for top rope climbing systems. With an emphasis on safety, the elements of risk will be analyzed to develop a system of appropriate practices and an understanding of good judgment. This course includes a required 2-3 day field trip which will involve camping. The field trip will provide the student with real climbing experience and application of techniques.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEOS 98AD 2.0 units**

**EXP- Sailing 1**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade

This course is designed to provide the basic fundamentals of sailing including strategy, rules and the skills of boarding procedures, rigging procedures, and maneuvering the boat.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHYSICAL EDUCATION, PHYSICAL FITNESS (PEPF)**

**PEPF 2AD 1.0 unit**

**Monitoring and Developing Sports Skills**

4.0 hours laboratory

Grading: letter grade

The course consists of selected field tests of physical fitness, joint flexibility, and muscular dexterity which are administered before, during and after an assortment of prescribed physical drills and exercises. Programs to improve cardiovascular endurance, muscular strength and joint mobility are included. In addition, the course focuses on individualized and group goals, including but not limited to demonstration of skill levels and measurement of increase in strength. Safe and balanced approaches to exercise and diet are outlined and the effects of alcohol and drugs will be stressed. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 3AD 0.5 unit**

**Water Aerobics and Training**

2.0 hours laboratory

Grading: letter grade

This course is an introductory aerobic physical fitness program employing water resistance exercises without the need for swimming skills.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 4AD 1.0 unit**

**Water Aerobics and Training**

3.0 hours laboratory

Grading: letter grade

This is an introductory aerobic physical fitness program employing water resistance exercises without the need for swimming skills.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 5AD 0.5 unit**

**Dance Aerobics**

2.0 hours laboratory

Grading: letter grade

Students will perform exercise and dance routines to music to enhance flexibility while emphasizing development of strength and endurance.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 6AD 1.0 unit**

**Dance Aerobics**

3.0 hours laboratory

Grading: letter grade

The course will cover the development of strength, muscular endurance, cardiovascular endurance, flexibility, coordination and balance. This will be accomplished by utilizing various cross training activities and calisthenics.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 8AD 2.5 units**

**Aerobic Circuit Training**

1.0 hour lecture, 5.0 hours laboratory

Grading: letter grade

Students receive cardiovascular and strength fitness training in a circuit setting. This format is ideal for normal, healthy people. The process allows for complete body conditioning.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 10AD 1.0 unit**

**Stretch & Relaxation**

3.0 hours laboratory

Grading: letter grade

This course emphasizes the development of flexibility in muscles and joints to prevent injury and to improve body alignment and posture. Relaxation and stretching techniques will be used to improve general fitness.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 21AD 0.5 unit**

**Physical Fitness**

2.0 hours laboratory

Grading: letter grade

This course will include the fitness components of cardiorespiratory, strength training, and flexibility activities. Assessment testing will be done to determine levels of performance in the areas of muscular strength and endurance, aerobic fitness, flexibility, and body composition. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 22AD 1.5 units**

**Physical Fitness**

5.0 hours laboratory

Grading: letter grade

This course will include the fitness components of cardiorespiratory, strength training, and flexibility activities. Assessment testing will be done to determine levels of performance in the areas of muscular strength and endurance, aerobic fitness, flexibility, and body composition. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 41AD 0.5 unit**

**Swimming Fitness**

2.0 hours laboratory

Grading: letter grade

Swim fitness is part of the physical fitness program. The program consists of swimming and related circuit training exercises.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 42AD 1.0 unit**

**Swimming Fitness**

3.0 hours laboratory

Grading: letter grade

Swim fitness is part of the physical fitness program. The program consists of swimming and related circuit training exercises.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 47AD 0.5 unit**

**Swim Fitness/Polo**

2.0 hours laboratory

Grading: letter grade

This course provides conditioning and instruction in the rules, techniques and strategies of water polo. The course is designed for student-athletes who are participating with the intercollegiate water polo teams.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 48AD 1.0 unit**

**Swim Fitness/Polo**

3.0 hours laboratory

Grading: letter grade

This course provides conditioning and instruction in the rules, techniques and strategies of water polo. The course is designed for student-athletes who are participating with the intercollegiate water polo teams.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 53AD 0.5 unit**

**Weight Training**

2.0 hours laboratory

Grading: letter grade

Weight training classes are designed to present a variety of lifting techniques. Students will use these techniques and their understanding of basic anatomy to reach their weight lifting goals. This course may be scheduled using

the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 54AD 1.0 unit**

**Weight Training**

3.0 hours laboratory

Grading: letter grade

Weight training classes are designed to present a variety of lifting techniques. Students will use these techniques and their understanding of basic anatomy to reach their weight training goals. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 81AD 1.0 unit**

**Fitness and Wellness Center**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

Selected physical fitness tests are administered before, during and after exercise programs to improve endurance, strength, and joint mobility. Lectures focus on individualized goals, continuous self-evaluation, safe and sane diet and exercise, scientific information versus fallacy, and wellness lifestyles that reduce health risks. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 83AD 2.0 units**

**Fitness & Wellness I**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

Physical fitness tests are administered before, during and after exercise programs to improve reserve capacity in endurance, local muscular endurance, muscular strength and joint mobility. Lectures and assignments focus on individual goals and continuous self-evaluation, safe and sane exercise and scientific information versus fallacy. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 84AD 2.0 units**

**Fitness and Wellness Center II**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

Physical fitness tests are administered before, during and after exercise programs to improve reserve capacity in endurance, muscular strength and joint mobility. Lectures and assignments focus on modifications of lifestyle to enhance the quality of life and reduce health risks. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPF 629** **0.0 unit**  
**Physical Fitness**  
 2.0 hours laboratory  
 Grading: LBCC Non-Graded Course  
 This course uses selected field and lab tests of physical fitness taken before, during and after an assortment of exercise programs to check cardiovascular endurance, local muscular endurance, muscular strength and joint mobility. The course is designed for senior citizens. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**PEPF 681** **0.0 unit**  
**Human Performance Laboratory**  
 0.5 hour lecture, 1.5 hours laboratory  
 Grading: LBCC Non-Graded Course  
 Selected field and lab tests of physical fitness are taken before, during and after an assortment of exercise programs to check improvements in cardiorespiratory endurance, local muscular endurance, muscular strength and joint mobility. Instruction focuses on individualized goals and continuous self-evaluation, safe and sane approaches to diet and exercise, and scientific information versus fallacies. We recommend talking to your physician if you have doubts about being fit enough to exercise. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

***PHYSICAL EDUCATION,  
 PROFESSIONAL PREPARATION  
 (PEPP)***

**PEPP 1** **2.0 units**  
**Introduction to Physical Education**  
 2.0 hours lecture  
 Grading: letter grade  
 Introduction to Physical Education is a survey of physical education and its significance in the school program. It is an analysis of established standards, professional ethics, and a discussion of personal qualities and interests necessary to be a successful leader in this field. It is required of physical education majors. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 5** **3.0 units**  
**Sports Appreciation**  
 3.0 hours lecture  
 Grading: letter grade  
 This class will explore sports and its role in society. Topics will include a survey of a variety of sports and spectator appreciation. The class will explore careers in amateur and professional sports organizations.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PEPP 7 (CAN REC 2)** **3.0 units**  
**Intro to Community Recreation**  
 3.0 hours lecture  
 Grading: letter grade  
 This course is designed for recreation majors and non-majors. This is a general orientation to the field of recreation and parks services. Included is a history of the development of the recreation profession, and a survey of recreation and leisure services. The course also includes a description and interpretation of recreation as a form of community service, and the nature, scope, and significance of leisure and recreation as a social force in contemporary society. The role of the professional leader in a variety of settings is emphasized.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PEPP 10** **3.0 units**  
**Prevention & Care of Athletic Injuries**  
 3.0 hours lecture, 0.5 hour laboratory  
 Grading: letter grade  
 This course introduces the basic concepts of athletic training, including instruction for prevention, recognition, management and treatment of common injuries in an active population. The skills of basic strapping, bracing, padding and taping for the prevention and support of injuries will be presented and practiced in the laboratory setting.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 13** **1.0 unit**  
**Dance Aerobics-Professional Preparation**  
 0.5 hour lecture, 2.0 hours laboratory  
 Grading: letter grade  
 This course is designed to prepare students to teach dance aerobics. The teaching progression for dance aerobics, step aerobics, and cardio kick boxing are topics covered in this course.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 15** **3.0 units**  
**Sports Officiating (Fall)**  
 2.0 hours lecture, 3.0 hours laboratory  
 Grading: letter grade  
 The course offers theory and practice of officiating intramural, college, and high school football and basketball games. Students will participate as actual game officials during intramural competition. This class is open to all students. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 17** **3.0 units**  
**Sports Officiating (Spring)**  
 2.0 hours lecture, 3.0 hours laboratory  
 Grading: letter grade  
 The course offers theory and practice of officiating intramural college and high school softball and volleyball games. Students will participate as actual game officials during intramural competition. This class is open to all students. This course may be scheduled

using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 19AD 2.0 units**

**Theory of Football**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade

This course features elementary and intermediate instruction and practice in scouting, film analysis, use of equipment and safety procedures. It is an introduction to the organization and administration of a youth football program. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 23 (CAN KINE/PE 8) 3.0 units**

**First Aid and Safety Education**

3.0 hours lecture

Grading: letter grade

This course safety covers techniques and the principles involved in rendering prompt and intelligent first aid when necessary. It includes practical demonstration and practice in those procedures essential to meet the requirements of the Standard First Aid and Personal Safety and Cardiopulmonary Resuscitation (CPR) Certificates granted by the American Red Cross.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 23M1 1.0 unit**

**Child First Aid & Safety Education**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course covers safety techniques and the principles involved in delivering prompt and appropriate first aid to children. This class includes practical demonstration and practice in those procedures essential to meet the requirements of the standard First Aid for Children and Infants and Cardiopulmonary Resuscitation (CPR) Certificates granted by the American Red Cross.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PEPP 25AD 1.0 unit**

**Baseball (Men)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course teaches fundamental skills and knowledge of baseball for physical education majors and minors.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 27 1.0 unit**

**Basketball (Men)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This is an introductory course designed for instruction in the fundamentals of basketball. The semester course is designed to develop an appreciation and acquisition of basketball knowledge and skills.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 29 1.0 unit**

**Cross Country/Track and Field (Men)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

The goal of the course is to improve fundamental skills in track and field events, including sprinting, middle distance and distance running, relay racing, hurdles, long jump, high jump, discus, javelin and shot put. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 31 1.0 unit**

**Football (Men)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course features instruction and practice in the basic skills and team play of football. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 35 1.0 unit**

**Soccer (Men)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course provides study and practice in the areas of conditioning and professional instruction in the rules, techniques and strategies of soccer. The course is designed for students seeking the ability to prepare instruction and practice activities for teaching and coaching. A variety of topics will be addressed, including offensive strategies, defensive strategies and game preparation. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 37 1.0 unit**

**Volleyball (Men)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course provides conditioning and instruction in the rules, techniques and strategies of volleyball. The course is designed for students seeking professional preparation to be able to teach and/or coach basic skills and team play in volleyball. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 41 2.0 units**

**Aquatics (Coed)**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade

This course provides instruction and practice in the fundamental skills of all swimming strokes, diving, team and individual aquatic competitive events, and pool maintenance and operation. This course is designed for

students seeking the ability to prepare instruction and practice activities for teaching and coaching.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 51 1.0 unit**

**Golf (Coed)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course provides study and practice in the areas of conditioning and professional instruction in the rules, techniques and strategies of golf. The course is designed for students seeking the ability to prepare instruction and practice activities for teaching and coaching. A variety of topics will be addressed, including golf swing technique, rules, and etiquette. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 53 1.0 unit**

**Tennis (Coed)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course provides study and practice in the areas of conditioning and professional instruction in the rules, techniques and strategies of tennis. The course is designed for students seeking the ability to prepare instruction and practice activities for teaching and coaching. A variety of topics will be addressed, including forehand and backhand and serve.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 55 1.0 unit**

**Basketball (Women)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course provides study and practice in the areas of conditioning and professional instruction in the rules, techniques and strategies of basketball. The course is designed for students seeking the ability to prepare instruction and practice activities for teaching and coaching. A variety of topics will be addressed, including ball handling, shooting, and defensive and offensive strategies.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 61 1.0 unit**

**Soccer (Women)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course provides study and practice in the areas of conditioning and professional instruction in the rules, techniques and strategies of soccer. The course is designed for students seeking the ability to prepare instruction and practice activities for teaching and coaching. A variety of topics will be addressed, including offensive strategies, defensive strategies, and game preparation. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 63 1.0 unit**

**Softball (Women)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course provides instruction and practice in the basic skills and team play of softball. This course is designed for students seeking the ability to prepare instruction and practice activities for teaching and coaching.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 65 1.0 unit**

**Track and Field (Women)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course provides study and practice in the areas of conditioning and professional instruction in the rules, techniques and strategies of Track and Field. The course is designed for students seeking the ability to prepare instruction and practice activities for teaching and coaching. A variety of topics will be addressed, including sprinting, middle distance, and distance running, relay racing, hurdles, long jump, high jump, discus, javelin and shot put.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 67 1.0 unit**

**Volleyball (Women)**

0.5 hour lecture, 1.5 hours laboratory

Grading: letter grade

This course provides conditioning and instruction in the rules, techniques and strategies of volleyball. The course is designed for students seeking the ability to prepare instruction and practices in the basic skills and team play of volleyball.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEPP 71AD 2.0 units**

**Work Experience: PE-Professional Prep.**

1.0 hour lecture, 4.1 hours laboratory

Corequisite: Concurrent enrollment in at least one additional CULAR course.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PEPP 72AD 3.0 units**

**Work Experience: PE-Professional Prep**

1.0 hour lecture, 8.3 hours laboratory

Corequisite: Concurrent enrollment in at least one additional CULAR course.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also



involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PEPP 73AD 4.0 units**

**Work Experience: PE-Professional Prep**

1.0 hour lecture, 12.5 hours laboratory

Corequisite: Concurrent enrollment in at least one additional CULAR course.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHYSICAL EDUCATION,  
INTERCOLLEGIATE ATHLETICS  
(PEIA)**

**PEIA 1AD 3.0 units**

**Baseball (Men)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout

Grading: letter grade

This course provides specific conditioning, techniques, strategies and instruction in baseball. The course is designed for men of exceptional ability who wish to participate in intercollegiate baseball. The course fulfills the requirement for a physical education activity and meets the state intercollegiate requirement for conditioning in preparation for competition. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 3AD 3.0 units**

**Basketball (Men)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout

Grading: letter grade

This course provides specific conditioning, techniques, strategies and instruction in football. The course is designed for men of exceptional ability who wish to participate in intercollegiate, competitive basketball. This course meets the state intercollegiate requirement for conditioning in preparation for competition. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 3M1 1.5 units**

**Basketball (Men)**

5.0 hours laboratory

Grading: letter grade

This course is designed for students who possess advanced basketball skills and abilities and who intend to participate in intercollegiate competitive basketball. The course is in preparation for try-outs, out-of-season conditioning, and training. This course meets the health education requirement for Plan B and the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 5AD 3.0 units**

**Cross Country (Men)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout

Grading: letter grade

This course is designed to provide advanced preparatory instruction in Men's Intercollegiate Cross Country. The students will have multiple opportunities to apply running strategies to actual racing situations. Running performance will be assessed and evaluated by the students in order to improve performance. Try outs, out-of-season conditioning and training will be integral components of the class. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 7AD 3.0 units**

**Football (Men)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout

Grading: letter grade

This course provides specific conditioning, techniques, strategies, nutrition for and instruction in football. The course is designed for men of exceptional ability who wish to participate in intercollegiate football. This course meets the health education requirement for Plan B and the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 7M1 1.5 units**

**Football (Men)**

5.0 hours laboratory

Grading: letter grade

This course provides specific conditioning, techniques, strategies nutrition for and instruction in football. This course offers a diverse program of intercollegiate athletics for men and women of exceptional ability. This course meets the health education requirement for Plan B and the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on

“Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 9AD 3.0 units**

**Golf (Men)**

10.0 hour laboratory

Recommended Preparation: Admission is limited to tryouts.

Grading: letter grade

This class is designed for men of exceptional ability who wish to compete in intercollegiate athletics. There will be advanced instruction in the rules, techniques and strategies of golf. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 13AD 3.0 units**

**Soccer (Men)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout

Grading: letter grade

This course offers instruction in the rules, techniques and strategies of soccer. The course is designed for men of exceptional ability who wish to participate in intercollegiate athletics. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 13M1 1.5 units**

**Soccer (Men)**

5.0 hours laboratory

Grading: letter grade

This course offers instruction in the rules, techniques and strategies of soccer. The course is designed for men of exceptional ability who wish to participate in intercollegiate athletics.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 15AD 3.0 units**

**Swimming (Men)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout

Grading: letter grade

This course provides specific conditioning, techniques, strategies and instruction in the rules of swimming. The course is designed for men of exceptional ability who wish to participate with the intercollegiate swimming team. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 17AD 3.0 units**

**Tennis (Men)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout

Grading: letter grade

A diverse program of intercollegiate athletics for men and women of exceptional ability which fulfills the legal requirement for a physical education activity. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 19AD 3.0 units**

**Track & Field (Men)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout

Grading: letter grade

This course implements a diverse intercollegiate athletics program for men and women of exceptional ability which fulfills the legal obligation for a physical education activity. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 19M1 1.5 units**

**Track & Field (Men)**

5.0 hours laboratory

Grading: letter grade

This course is intended to provide advanced preparatory instruction for participation in men’s intercollegiate track and field. It is designed for try-outs, out-of-season conditioning and strength and cardio respiratory training.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 21AD 3.0 units**

**Volleyball (Men)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout

Grading: letter grade

This course provides conditioning and instruction in the rules, techniques and strategies of volleyball. The course is designed for men of exceptional ability who wish to prepare to participate in intercollegiate athletics. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 23AD 3.0 units**

**Water Polo (Men)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout

Grading: letter grade

This course offers instruction in the rules, techniques and strategies of water polo. The course is designed for men of exceptional ability who wish to participate in intercollegiate athletics.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 27AD 3.0 units**

**Basketball (Women)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout  
Grading: letter grade

This course is offered to students who are interested in playing intercollegiate athletics (basketball) and for students who possess advanced basketball skills and knowledge of the game and knowledge of its rules and regulation. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 27M1 1.5 units**

**Basketball (Women)**

5.0 hours laboratory

Grading: letter grade

This class is offered as part of a diverse program of intercollegiate athletics for women of exceptional ability, which fulfills the legal requirement for a physical education activity.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 29AD 3.0 units**

**Cross Country (Women)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout  
Grading: letter grade

This course is designed to provide advanced preparatory instruction in Women's Intercollegiate Cross Country. The students will have multiple opportunities to apply running strategies to actual racing situations. Running performance will be assessed and evaluated by the coach in order to improve performance. Try outs, out-of-season conditioning and training will be integral components of the class. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 31AD 3.0 units**

**Golf (Women)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout  
Grading: letter grade

This class is offered as a part of a diverse program of intercollegiate athletics for women of exceptional ability which fulfills the legal requirement for physical education activity.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 35AD 3.0 units**

**Soccer (Women)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout  
Grading: letter grade

This course provides specific conditioning, techniques, strategies, nutrition for and instruction in soccer. The course is designed for women of exceptional ability who wish to participate in intercollegiate soccer. This course meets the health education requirement for Plan B and the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC. This course may

be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 37AD 3.0 units**

**Softball (Women)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout  
Grading: letter grade

This class is offered as part of a diverse program of intercollegiate athletics for men and women of exceptional ability which fulfills the legal requirement for a physical education activity. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 37M1 1.5 units**

**Softball (Women)**

5.0 hours laboratory

Grading: letter grade

This class is offered as part of a diverse program of intercollegiate athletics for men and women of exceptional ability in softball, which fulfills the legal requirement for a physical education activity.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 39AD 3.0 units**

**Swimming (Women)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout  
Grading: letter grade

This course provides specific conditioning, techniques, strategies and instruction in the rules of swimming. The course is designed for women of exceptional ability who wish to prepare to participate with the intercollegiate swimming team. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 41AD 3.0 units**

**Tennis (Women)**

10.0 hour laboratory

Recommended Preparation: Admission limited to tryout  
Grading: letter grade

This class is offered as part of a diverse program of intercollegiate athletics for men and women of exceptional ability which fulfills the legal requirement for a physical education activity. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 43AD 3.0 units**

**Track & Field (Women)**

10.0 hour laboratory  
 Recommended Preparation: Admission limited to tryout  
 Grading: letter grade  
 This course is offered as part of a diverse program of intercollegiate athletics for men and women of exceptional ability, which fulfills the legal requirement for a physical education activity. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 43M1 1.5 units**

**Track & Field (Women)**

5.0 hours laboratory  
 Grading: letter grade  
 This course is offered as part of a diverse program of intercollegiate athletics for men and women of exceptional ability, which fulfills the legal requirement for a physical education activity.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 45AD 3.0 units**

**Volleyball (Women)**

10.0 hour laboratory  
 Recommended Preparation: Admission limited to tryout  
 Grading: letter grade  
 This course is designed to provide the instruction and training for intercollegiate competition in women's volleyball for students of exceptional ability who wish to participate at this level of competition. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 47AD 3.0 units**

**Water Polo (Women)**

10.0 hour laboratory  
 Recommended Preparation: Admission limited to tryout  
 Grading: letter grade  
 This course offers instruction in the rules, techniques, and strategies of water polo. The course is designed for women of exceptional ability who wish to participate in intercollegiate athletics.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PEIA 47M1 1.5 units**

**Water Polo (Women)**

5.0 hours laboratory  
 Recommended Preparation: Admission limited to tryout.  
 Grading: letter grade  
 This course provides specific conditioning, techniques, strategies and instruction in the rules of water polo. The course is designed for women of exceptional ability who wish to prepare to participate with the intercollegiate water polo team.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PHYSICS (PHYS)**

**PHYS 2A (Part of CAN PHYS SEQUENCE A) 4.0 units**

**General Physics**

4.0 hours lecture, 2.0 hours laboratory  
 Prerequisite: MATH 40  
 Grading: letter grade or pass/no pass  
 This course is an algebra and trigonometry based general physics course for students not majoring in physics or engineering. It covers kinematics, dynamics, work and energy, momentum, rotational motion, properties of fluids, simple harmonic motion, waves, temperature and ideal gases, heat and thermodynamics.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHYS 2B (Part of CAN PHYS SEQUENCE A) 4.0 units**

**General Physics**

4.0 hours lecture, 2.0 hours laboratory  
 Prerequisite: PHYS 2A  
 Grading: letter grade or pass/no pass  
 This course is an algebra and trigonometry based general physics course for students not majoring in physics or engineering. The course covers electric charge, Coulomb's Law, electric field, electric potential, capacitance, electric current, D.C. circuits, magnetism, electromagnetic induction, A.C. circuits, electromagnetic waves, geometric optics, the wave nature of light, the Special Theory of Relativity and introduction to Quantum Theory and models of the atom.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHYS 3A (Part of CAN PHYS SEQUENCE B) 5.0 units**

**Physics for Sci. & Eng. — Mechanics**

5.0 hours lecture, 2.0 hours laboratory  
 Prerequisite: MATH 60  
 Recommended Preparation: PHYS 2A  
 Grading: letter grade or pass/no pass  
 This course is the first course of a calculus based sequence for majors in physics, chemistry, mathematics, engineering, astronomy and certain other fields. This course covers kinematics, vectors, dynamics, energy, translational and rotational motion, static fluids, simple harmonic oscillations and mechanical waves.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHYS 3B (Part of CAN PHYS SEQUENCE B) 4.0 units**

**Physics for Sci. & Eng. — E & M**

4.0 hours lecture, 2.0 hours laboratory  
 Prerequisite: PHYS 3A  
 Grading: letter grade or pass/no pass  
 This course is the second course of a calculus-based sequence for majors in physics, chemistry, mathematics, engineering, astronomy and certain other fields. The course covers electric charge, Coulomb's Law, electric field, Gauss's law, electric potential, capacitance, electric current, D.C. circuits, magnetic fields, electromagnetic induction, A.C. circuits, Maxwell's equations and electromagnetic waves.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHYS 3C (Part of CAN PHYS SEQUENCE B) 4.0 units**

**Physics for Sci. & Eng. — Modern Physics**

4.0 hours lecture, 2.0 hours laboratory

Prerequisite: PHYS 3A

Grading: letter grade or pass/no pass

This course is part of a calculus based sequence for majors in physics, chemistry, mathematics, engineering, astronomy and certain other fields. Physics 3C includes thermodynamics, electromagnetic waves, ray optics, wave optics, special relativity, basic quantum theory, wave mechanics, properties of atoms, nuclear structure and nuclear reactions.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PHYSIOLOGY (PHYSI)**

**PHYSI 1 (CAN BIOL12) (Part of CAN BIO SEQ) 5.0 units**

**Human Physiology**

4.0 hours lecture, 3.0 hours laboratory, 0.2 hour supplemental learning

Prerequisite: ANAT 1 or ANAT 41 or BIO 60

Recommended Preparation: CHEM 2 or one year of high school chemistry.

Grading: letter grade or pass/no pass

This course is the study of the functioning of the human body at the molecular, cellular, organ and organ system level. Laboratory experiments reinforce the concepts and allow students to gain experience with standard physiology equipment. This course is designed for pre-nursing, physical therapy, occupational therapy, physical education and other allied health majors. Students are required to complete 3 hours of activities in a Multidisciplinary Success Center to complete activities and assignments that relate specifically to this course's content.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLITICAL SCIENCE (POLSC)**

**POLSC 1 (CAN GOVT 2) 3.0 units**

**Introduction to Government**

3.0 hours lecture

Grading: letter grade

This course is an introduction to the principles and issues of government and the political process in a diverse society, emphasizing the U.S. government and California state and local governments. The course satisfies the requirement for a course in the U.S. Constitution and the principles of state and local government, required by Title 5 of the California Administrative Code. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 1H 3.0 units**

**Honors Introduction to Government**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Recommended Preparation: ENGL 1

Grading: letter grade

This course is an introduction to the principles and issues of government and the political process in a diverse society, emphasizing the U.S. government and

California state and local governments. The course satisfies the requirement for a course in the U.S. Constitution and the principles of state and local government, required by Title 5 of the California Administrative Code.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 2 3.0 units**

**Comparative Government**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to the comparative analysis of governmental institutions and political processes of selected governments of the world with an emphasis on political and institutional development within countries. The course satisfies one social science requirement for majors in political science, history, sociology, humanities and life sciences at CSULB and UCLA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 3 3.0 units**

**Issues of American Government**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is an intensive study of current issues involving the basic concepts of American democracy, public policy, federalism, government finance, pressure groups, legislative, executive and judicial powers, civil rights and liberties, and international politics. This course is highly recommended for political science majors at CSU Long Beach.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 4 3.0 units**

**World Politics**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to recent and contemporary international relations, foreign policy-making institutions, and the politics of selected foreign states. This class satisfies one lower division social science requirement for majors in political science, history, sociology, humanities, physical sciences and life sciences at UCLA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 9 3.0 units**

**The Constitution, Law and Society**

3.0 hours lecture

Grading: letter grade or pass/no pass

This Course is a general survey of U.S. Constitutional law and its origins, emphasizing the legal system and its interdisciplinary nature. The role of law in controversial political and social issues, in particular civil rights and liberties, is examined. Law is analyzed as an integral part of the political process, along with questions of morality.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 10 3.0 units**

**Introduction to Political Science**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course introduces basic concepts and approaches in the discipline of political science. Theories of political institutions, systems and subsystems are examined. Methods and approaches of political analysis are developed in the study of classical and modern political problems.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 11 3.0 units**

**Introduction to Political Theory**

3.0 hours lecture

Grading: letter grade

This course is an introduction to Western political thought. It examines perennial issues of politics concerning justice, power, and the nature of the state. The course surveys the central political thinkers associated with the ancient, medieval, modern, and postmodern eras of Western political theory.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 48 3.0 units**

**California Government and Politics**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is a comprehensive survey of the forces shaping the governmental institutions and processes of the State of California and its cities, counties and special districts. This class satisfies the requirement for a course in the principles of state and local government as required by Title 5 of the California Administrative Code. A one-unit version of the course is available as POLSC 48M1.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**POLSC 48M1 1.0 unit**

**California State/Local Government**

1.0 hour lecture

Grading: letter grade

This is a credit by examination course to satisfy the requirement for a course in the principles of California state and local government as required by Title 5 of the California Administrative Code (and as part of the CSU's graduation requirement in American Institutions). The course will provide a survey of the forces shaping the governmental institutions and processes of the State of California and its cities, counties and special districts. Students will prepare for the examination by guiding themselves through course content based on required learning outcomes, objectives, and materials. The examination will be given in the latter part of the fall semester. A three unit, traditional course offering is available in the spring semester (POLSC 48).

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PSYCHOLOGY (PSYCH)**

**PSYCH 1 (CAN PSY 2) 3.0 units**

**Introduction to Psychology**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to scientific exploration of human psychology and behavior. The course includes a survey of the historical, physiological, and social influences on behavior, emphasizing development, learning, motivation, perception, cognition, mental health, individual and cultural differences, as well as the cause, treatment, and prevention of mental disorders. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PSYCH 1H 3.0 units**

**Honors Introduction to Psychology**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course is an introduction to the field of psychological science through consideration of such topics as human development, motivation, emotion, intelligence, learning, thinking, perception, personality, and social relations. It looks at individual differences, including the continuum from mental health to disorder. This course includes additional assignments not required in Psych 1.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PSYCH 2 (CAN PSY 8) 4.0 units**

**Research Methods for Psychology**

3.0 hours lecture, 3.0 hours laboratory

Prerequisite: PSYCH 1

Recommended Preparation: STAT 1

Grading: letter grade or pass/no pass

The course provides a basic understanding of research designs and statistical techniques used in psychological investigation. Students perform a literature review, design an original research study, collect and analyze data, and write an APA-style research report.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PSYCH 4 3.0 units**

**Personal and Social Development**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course brings an application of psychological principles to one's everyday life, emphasizing the adjusting to life's challenges and growth toward one's potential. Stress is placed on self-awareness, self-management, interpersonal communication and the quality of interpersonal relationships.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PSYCH 6 3.0 units**

**Physiological Foundations of Psychology**

3.0 hours lecture

Recommended Preparation: PSYCH 1

Grading: letter grade

Physiological Foundation of Psychology is an introduction to the physiological aspects of human behavior including the central and peripheral nervous system and the endocrine system. It explores the physiological basis for cognition, consciousness, motion, motivation, learning, sensation, perception, memory, sex drive, addiction and psychopathology. This is an essential course for psychology majors, and health professionals would find this course very useful.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PSYCH 10 3.0 units**

**Human Sexuality**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to human sexuality from a psychophysiological perspective. Included are its historic development, cultural, religious and sociological influences, trends, variations, deviations and dysfunctions. It is not open to students registered in or with credit in HLED 10. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PSYCH 11 3.0 units**

**Social Psychology**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to explore how an individual's behavior, thoughts and feelings are influenced by the presence, characteristics and actions of others. This course will familiarize students with description, analysis and prediction of interpersonal behavior. A variety of topics will be addressed, including interpersonal attraction, conflict resolution, conformity and the influence of social roles on behavior.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PSYCH 14 3.0 units**

**Abnormal Psychology**

3.0 hours lecture

Recommended Preparation: PSYCH 1

Grading: letter grade or pass/no pass

This class is a survey of maladaptive behaviors, including neurosis, psychosis, substance abuse, sexual deviation, retardation, mood, personality, anxiety and developmental disorders, cross cultural views of maladaptive behaviors, causes, treatment and prevention.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PSYCH 33 3.0 units**

**Psychology of Personality**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course defines personality and explains historical and contemporary approaches to explaining and assessing personality similarities and differences among people. Research is presented demonstrating the extent

to which personality factors can predict the behavior of individuals. Cross cultural influences on personality development are examined.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PUBLIC ADMINISTRATION  
(PUBAD)**

**PUBAD 1 3.0 units**

**Introduction to Public Administration**

3.0 hours lecture

Grading: letter grade or pass/no pass

This is an introductory level course which addresses the principles and practices of public administration in national, state and local government agencies. The course outlines basic organizational patterns, internal management, administrative functions and responsibilities.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**PUBLIC AFFAIRS (PUBAF)**

**PUBAF 601 0.0 unit**

**Analysis of World Affairs**

2.0 hours lecture

Grading: LBCC Non-Graded Course

This course is a study of current affairs, contemporary moral issues and social communications to assist the older student in adjusting to a changing world and international relationships.

**RADIO AND TELEVISION (R\_TV)**

**R\_TV 1 3.0 units**

**Introduction to Broadcasting**

3.0 hours lecture

Grading: letter grade

Introduction to Broadcasting explores the evolution of mass media and its impact on society. The class will analyze methods the media uses to persuade the consumer and become an educated viewer and evaluate their tactics. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 2 2.0 units**

**Intro to Careers in Radio & Television**

2.0 hours lecture

Grading: letter grade

This course explores the various occupations in the radio and television field, including broadcast, cable, industrial and multimedia production. Students will investigate employment opportunities, as well as the required skills and personal qualifications necessary for employment in this element of the entertainment industry. Guest speakers will discuss current industry issues and standards.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 3 2.0 units**

**Using MacIntosh Comp Entertainment Indus**

2.0 hours lecture, 2.0 hours laboratory

Grading: letter grade

This course is designed for students to develop current computer operation skills and equipment systems related to the entertainment industry. No previous computer knowledge is necessary. It covers the basic use of hardware and certain software, Internet use, work processing, spreadsheet, database use, communications applications, and basic digital audio and video production. The course will explore specific examples of how various applications are used in the entertainment industry.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 4 3.0 units**

**Writing and Production Planning**

3.0 hours lecture

Grading: letter grade

This course examines pre-production principles and procedures common to all productions, emphasizing scripting and other writing skills unique to the radio, television, and film industry. It also explores budgeting, union, and legal issues.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 8 3.0 units**

**Introduction to Media Production**

3.0 hours lecture, 1.0 hour laboratory

Grading: letter grade

This course introduces students to the basic principles of production, including operation of equipment and the process of developing a program from the original idea to final editing.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 12 2.0 units**

**Television Lighting**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

Students will study the practical application of the theories of television lighting. This course includes the following: 1) using lighting materials and equipment, 2) the aesthetics of light, 3) experimenting with light and color, 4) lighting for effects, 5) lighting for studio production, 6) lighting for field production, 7) lighting for single and multiple cameras. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 13AD 2.0 units**

**Television Production**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course allows the student the opportunity to participate in the creation and production of television program material. Students will produce, direct and crew a variety of projects, such as news, interviews, commercials, dramas, comedies and instructional programs. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the

section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 14AD 2.0 units**

**Electronic Field Production**

2.0 hours lecture, 1.0 hour laboratory

Grading: letter grade or pass/no pass

This course is a study and application of the technical aspects of video, film and multimedia production in the field. Special attention will be dedicated to successful production strategies necessary for the unique problems associated with shooting in the field, such as equipment selection, lighting, audio and the environment. Issues related to acquisition format, such as film versus tape and analog versus digital, will be explored. Students will shoot projects in the field as "stand-alone" productions and as elements for edited productions. Editing will be covered as it relates to field production.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 15AC 2.0 units**

**Advanced Television Production**

1.0 hour lecture, 3.0 hours laboratory

Recommended Preparation: Audition

Grading: letter grade

This class explores the creation and production of television program material with an emphasis on the quality of the finished product. Projects which students produce, direct and crew will be largely of their own choosing. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 21 3.0 units**

**Radio Production**

3.0 hours lecture, 1.0 hour laboratory

Grading: letter grade

This course features the creation and production of radio program material. Projects include: disc jockey shows, news programs, interviews, commercials, editing, microphone set-up and audio board operation. Other aspects of radio station operation will be covered, such as management, sales, audience analysis and ratings.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 25AD 2.0 units**

**Radio Activity**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course provides the opportunity and responsibility to work in a variety of jobs involved in the operation of one of the college's two internet radio stations. Students will work "on air" and behind the scenes. Hours outside of the class time are arranged in consultation with the instructor. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*



**R\_TV 30AD 1.5 units**

**Broadcast Newswriting**

1.0 hour lecture, 2.0 hours laboratory

Grading: letter grade

Students will learn to write, re-write and edit stories for radio, TV, or Internet distribution. Students will gain experience in discovering and researching news. Topics covered will include use of sound tracks, visuals, interviews, and the “local angle” or “human interest element.” Some stories may be incorporated into the weekly student TV news show.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 34AD 2.0 units**

**Music Video Production**

2.0 hours lecture, 2.0 hours laboratory

Recommended Preparation: R\_TV 14AD

Grading: letter grade or pass/no pass

This course provides an in depth exam of the components necessary to produce a music video, including completion of a camera ready production proposal and a script of selected projects. Selected projects may be produced. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 35AD 2.0 units**

**Television Activity**

1.0 hour lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

This course provides an opportunity and responsibility to work in a variety of jobs involved in the video taping of various college events and/or projects or student selected projects in the television studio. Projects may be broadcast on the college cable channel and/or used in the student news show. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 36AD 3.0 units**

**Broadcast News Production**

2.0 hours lecture, 4.0 hours laboratory

Grading: letter grade or pass/no pass

In this course students will learn various aspects of producing a television newscast. Students will participate in gathering information, writing, editing and producing news, sports, editorials, and weather segments. Students will work as managing editors, operate equipment, and edit video packages.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 37 3.0 units**

**Radio/Television Management and Sales**

3.0 hours lecture

Grading: letter grade

This course provides an overview of the basic elements of broadcast and cablecast management. Topics covered include: advertising and sales techniques, ratings,

station promotion, budgets, FCC policies, franchise agreements and negotiations, scheduling, contest considerations, liability elements and people skills.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 40AD 2.0 units**

**On-Camera Performance**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade

This course involves the practical application of performance techniques as applied to working in front of a camera. Performances are video-taped and analyzed which will help the student understand what is necessary in the preparation of audition material. Students will gain knowledge about each area responsible for a TV production.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 71AD 2.0 units**

**Work Experience: Radio and Television**

1.0 hour lecture, 4.1 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time in radio, television, film, or multimedia directly related to an occupational goal or career of interest to the student. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 72AD 3.0 units**

**Work Experience: Radio and Television**

1.0 hour lecture, 8.3 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time in radio, television, film, or multimedia directly related to an occupational goal or career of interest to the student. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 73AD 4.0 units**

**Work Experience: Radio and Television**  
 1.0 hour lecture, 12.5 hours laboratory  
 Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.  
 Grading: letter grade or pass/no pass  
 This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time in radio, television, film, or multimedia directly related to an occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**R\_TV 216AC 2.0 units**

**Non-Linear Video & Film Editing**  
 2.0 hours lecture, 2.0 hours laboratory  
 Recommended Preparation: R\_TV 3  
 Grading: letter grade or pass/no pass  
 This course explores the process of non-linear video and film editing using Final Cut Pro. This is a "hands-on" course in which students will edit digital video and audio into finished clips or entire shows. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**R\_TV 321 1.0 unit**

**Radio Production: Voice Over**  
 1.0 hour lecture  
 Grading: letter grade  
 This course is an introduction to the voice-over business, including voice analysis. It involves analyzing, marking, and reading copy; the demo tape; finding an agent; and the audition. Voice exercises and concepts on voice use will be discussed/demonstrated. Voice character development will be covered.

**READING (READ)**

**READ 82 4.0 units**

**Proficient Reading**  
 4.0 hours lecture, 0.3 hour supplemental learning  
 Prerequisite: Qualification through Reading assessment process or READ 883.  
 Grading: letter grade or pass/no pass  
 This course provides instruction in the strategies necessary for college reading with an emphasis on the application of comprehension, vocabulary and critical reading skills to academic and technical reading assignments. To assist students in gaining efficiency with the challenges of college reading, students are required to complete 5 hours over the semester in a Success Center to complete activities and assignments that relate specifically to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**READ 83 4.0 units**

**Power Reading**  
 4.0 hours lecture  
 Prerequisite: Qualification through Reading assessment process or READ 883.  
 Grading: letter grade or pass/no pass  
 This course focuses on power reading strategies, analysis of written discourse, and application of flexible reading techniques to personal, professional, and academic reading. It is designed for those with strong comprehension skills.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**READ 84 3.0 units**

**Analytical Reading**  
 3.0 hours lecture  
 Prerequisite: Reading proficiency met through the assessment process or successful completion of READ 82 or READ 83.  
 Grading: letter grade or pass/no pass  
 This course provides instruction in the strategies needed for logical thinking, critical reading, and analysis of argumentative writing. Emphasis is placed on the ability to analyze and evaluate written material by establishing thesis and support, identifying patterns of logic and reason, and determining point of view and authority. READ 84 enables students to gain efficiency with the challenges of critical reading and analytical thinking in all academic disciplines.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**READ 85 3.0 units**

**Vocabulary Building**  
 3.0 hours lecture  
 Grading: letter grade or pass/no pass  
 This course provides a study of methods to expand general word knowledge and build academic vocabulary across the disciplines emphasizing conceptual development and effective communication. The course is specifically designed to increase personal vocabulary skills and stimulate appreciation of the English language.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**READ 880 4.0 units**

**Reading Basics**  
 4.0 hours lecture  
 Grading: pass/no pass  
 This course is an initiation to the world of reading for emergent readers. The course focuses on creating pathways to literacy through an introduction to decoding, word recognition skills, and building of vocabulary skills. These skills serve as a foundation for comprehension development.

**READ 881 4.0 units**

**Reading Essentials**  
 4.0 hours lecture, 0.2 hour supplemental learning  
 Prerequisite: Qualification through Reading assessment process or READ 880.  
 Grading: pass/no pass  
 This course focuses on essential reading skills and strategies with an emphasis on comprehension, vocabulary, and reading fluency. Comprehension skills are developed through the use of narrative and expository text. To help gain efficiency with comprehension, students are required to complete 3

hours during the semester in a Success Center focusing on activities and assignments related to the course content. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**READ 882 4.0 units**

**Reading Development**

4.0 hours lecture

Prerequisite: Qualification through Reading assessment process or READ 881.

Grading: pass/no pass

This course develops essential reading concepts. The course focuses on literal and inferential comprehension strategies with continued building of vocabulary skills. Exposure to longer text selections provides opportunities for applying academic reading skills.

**READ 883 4.0 units**

**Reading Improvement**

4.0 hours lecture, 0.2 hour supplemental learning

Prerequisite: READ 882 or qualification through Reading assessment process.

Grading: pass/no pass

For students who have previously acquired essential reading skills, Read 883 reinforces instruction in reading improvement strategies and vocabulary enrichment, emphasizing the development of critical comprehension. Opportunities to apply the components of critical comprehension in a variety of genres emphasize both deeper and broader thought processes. Students are required to complete 3 hours of learning activities in a Success Center over the course of the semester. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**REAL ESTATE (REAL)**

**REAL 78 3.0 units**

**Real Estate Economics**

3.0 hours lecture

Grading: letter grade

This course covers trends and factors affecting the value of real estate, the nature and classification of real estate economics, the development of property, construction and subdivision, economic values and real estate evaluation, real estate cycles and business fluctuations, residential market trends, and real property trends. This course may be used as an elective course for persons seeking a California Real Estate Salesperson license and is a required course for persons seeking a California Real Estate Broker license. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**REAL 80 3.0 units**

**Real Estate Principles**

3.0 hours lecture

Grading: letter grade

This course covers the basic laws and principles of California real estate. This class also provides background and terminology for homeowners, landlords, tenants, persons preparing for advanced study

in specialized real estate courses, and those preparing for real estate license exams. This course is one of three courses required for persons seeking a Real Estate Salesperson license and is an elective course for persons seeking a Real Estate Broker license. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**REAL 81A 3.0 units**

**Real Estate Practice**

3.0 hours lecture

Grading: letter grade

This course covers practices in real estate sales and brokerage, including prospecting, listing, advertising, financing, sales techniques, escrow, and ethics. This course is one of the required courses for persons seeking a Real Estate Salesperson license or a Real Estate Broker license. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**REAL 83A 3.0 units**

**Legal Aspects of Real Estate**

3.0 hours lecture

Grading: letter grade

This course covers California and federal legislation, regulations, and cases that govern real estate transactions in California. Emphasis is placed on the practical application of the law to legal problems arising from real estate transactions, including matters relating to ownership, agency, contracts, finance, land use, fair housing, and landlord/tenant relationships. This course is one of five required courses for applicants seeking a California Real Estate Broker’s license and can be used as an elective course for applicants seeking a California Real Estate Salesperson’s license.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**REAL 84 3.0 units**

**Mortgage Brokering/Lending in California**

3.0 hours lecture

Recommended Preparation: REAL 80

Grading: letter grade

This course covers an introduction to mortgage brokering operations and orients students toward a career in the field. Topics covered include types of loans, loan processing, lending regulations, underwriting, loan submission, quality control, understanding credit information, loan packaging, and loan documents.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**REAL 85 3.0 units**

**Real Estate Appraisal**

3.0 hours lecture

Grading: letter grade

This course covers basic appraisal principles, basic appraisal procedures, and residential appraisal report writing. Emphasis is on appraisals of single-family residential properties. Successful completion of this course satisfies up to 54 hours of the 150 hours required to obtain a Trainee or Residential Appraisal license. This

course is required for persons applying for a Real Estate Broker's license and can be used as elective for persons applying for a Real Estate Salesperson's license.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**REAL 86** **3.0 units**

**Advanced Real Estate Appraisal**

3.0 hours lecture, 1.0 hour laboratory  
Recommended Preparation: REAL 80 and REAL 85  
Grading: letter grade

This course covers residential market analysis, highest and best use, site valuation, the cost, sales comparison, and income approaches to valuation, and appraisal report writing and case studies for residential properties. This course provides part of the education requirements for the Office of Real Estate Appraisers Trainee and Residential license levels and can be used as an elective for the Real Estate Broker's license.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**REAL 87** **3.0 units**

**Real Estate Finance**

3.0 hours lecture  
Grading: letter grade

This course is an introduction and analysis of real estate financing and lending policies. The course also introduces students to problems that may arise in the areas of financing residential, apartment, commercial and special purpose properties. The methods of financing properties are emphasized.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**REAL 92A** **3.0 units**

**Escrows and Land Titles**

3.0 hours lecture  
Grading: letter grade

This competency-based course prepares students with skills for entry-level positions in an escrow office or to improve their knowledge in real estate. Focus is on understanding the escrow process and accurately completing necessary documents. This course may be used an elective course for persons applying for the California Real Estate Salesperson or Real Estate Broker license.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**REAL 253** **3.0 units**

**Property Management**

3.0 hours lecture  
Grading: letter grade

This course is a practical approach to the principles and practices of managing apartments and other income properties. Topics include leasing, owner and manager objectives, management plans, landlord-tenant law, evictions, prohibited discrimination, property maintenance; management office administration, and human relations. This course can be used as an elective course by persons applying for the Real Estate Salesperson's and Broker's licenses with the California Department of Real Estate.

**REAL 271AD** **2.0 units**

**Work Experience-Real Estate**

1.0 hour lecture, 4.1 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

**REAL 272AD** **3.0 units**

**Work Experience-Real Estate**

1.0 hour lecture, 8.3 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

**REAL 273AD** **4.0 units**

**Work Experience-Real Estate**

1.0 hour lecture, 12.5 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

***SHEET METAL (SHMET)***

**SHMET 201** **10.0 units**

**Sheet Metal 1**

5.0 hours lecture, 12.0 hours laboratory, 0.6 hour supplemental learning

Grading: letter grade or pass/no pass

This course is designed to provide the student with a basic introduction to sheet metal fabrication and layout. Students will learn to identify and safely operate hand tools and power machinery used in sheet metal fabrication. They will be instructed in the characteristic and properties of different sheet metal materials. The course will introduce students to measurement, shop math and sheet metal layout. Students will be assigned and evaluated on lab projects which will involve sheet metal layout, forming and fabrication and include the use of mechanical seams, welding and soldering techniques. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

**SHMET 202 10.0 units**

**Sheet Metal 2**

6.0 hours lecture, 12.0 hours laboratory, 0.6 hour supplemental learning

Grading: letter grade or pass/no pass

This course will include instruction on safety practices, radial line surface development, related metal project fabrication, advanced oxy-acetylene welding, an introduction to hard soldering and production shop machine set-up. Students will also be introduced to PlasmaCam and Design2Fab software and the CNC operation of a plasma table. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

**SHMET 203 10.0 units**

**Sheet Metal 3**

6.0 hours lecture, 12.0 hours laboratory, 0.6 hour supplemental learning

Grading: letter grade or pass/no pass

This course will cover the topics of work place safety practices, will cover the topics of inert gas arc welding, triangulation surface development and fabrication techniques when working with aluminum and stainless steel. The student will also work with PlasmaCam and Design2Fab software in designing sheet patterns and the operation of the plasma cutting machine. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course content.

**SHMET 204 10.0 units**

**Sheet Metal 4**

6.0 hours lecture, 12.0 hours laboratory, 0.6 hour supplemental learning

Grading: letter grade or pass/no pass

This course will cover traditional and CAD layout of flat sheet metal patterns. The advanced student will learn the safe operation and setup of the press brake, the rollformer, the tube bender and the ironworker. Students will incorporate modern layout techniques along with machinery operation to develop advanced fabrication projects. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course content.

**SHMET 220A 4.0 units**

**Basic Sheet Metal Layout and Fabrication**

3.0 hours lecture, 4.0 hours laboratory, 0.3 hour supplemental learning

Grading: letter grade or pass/no pass

This course is designed to provide the student with a basic introduction to sheet metal fabrication and layout. Students will learn to identify and safely operate hand tools and power machinery used in sheet metal fabrication. They will be instructed in the characteristics and properties of different sheet metal materials. The course will introduce students to measurement, shop math and sheet metal layout. Students will be assigned and evaluated on lab projects which will involve sheet metal layout, forming and fabrication and include the use of mechanical seams, welding and soldering techniques. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**SHMET 220B 4.0 units**

**Advanced Sheet Metal Layout/ Fabrication**

3.0 hours lecture, 4.0 hours laboratory, 0.3 hour supplemental learning

Corequisite- SHMET 220A or SHMET 201 or SHMET 320M1 and SHMET 320M2.

Grading: letter grade or pass/no pass

This course is designed for people working in or wishing to enter the Sheet Metal trades in the fields of air conditioning, industrial sheet metal or architectural sheet metal. This course will provide comprehensive instruction in advanced sheet metal layout, including parallel lines, radial lines and triangulation. Students will be introduced to the safe setup and operation of sheet metal fabrication power equipment with emphasis on training equal to industry standards. The course will also introduce the student to CNC operations as related to the sheet metal trade. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**SHMET 220C 4.0 units**

**Power Metalworking Machine Operations**

3.0 hours lecture, 4.0 hours laboratory

Corequisite- SHMET 220A or SHMET 201 or SHMET 320M1 and SHMET 320M2.

Grading: letter grade or pass/no pass

This course is designed for people working in or wishing to enter the Sheet Metal trades in the fields of air conditioning, industrial sheet metal or architectural sheet metal. This is a comprehensive course in powered sheet metal power fabrication equipment. The course will cover the safe setup and operation of press brakes, ironworkers, turret punch, rotary machines, welders, shears, rollformers, tube benders, and notchers. Individualized hands-on experience in tool set-up and job shop performance equal to industry standards will be provided.

**SHMET 220D 4.0 units**

**Sheet Metal CNC Fabrication Systems**

3.0 hours lecture, 4.0 hours laboratory

Corequisite- SHMET 220A or SHMET 201 or SHMET 320M1 and SHMET 320M2.

Grading: letter grade or pass/no pass

This course is designed for people working in or wishing to enter the Sheet Metal trades in the fields of air conditioning, industrial sheet metal or architectural sheet metal. This is a comprehensive course on CNC Sheet Metal Fabrication software as it relates to turret punch, press brake, plasma cutter and tube bender. The course will cover the design of sheet metal products using various software and the fabrication of this products using a CNC controlled turret punch, press brake and plasma cutter.

**SHMET 221 2.0 units**

**Sheet Metal Blueprint Reading**

2.0 hours lecture

Recommended Preparation: SHMET 220A or SHMET 201 or both SHMET 320M1 and SHMET 320M2

Grading: letter grade or pass/no pass

This course covers the principles of interpreting building blueprints and specifications required by the sheet metal

worker. The student will learn to use building plans and specifications to layout, order, fabricate and install HVAC systems. The course also introduces the basic components used in a HVAC installation.

**SHMET 223 2.0 units**

**Sheet Metal Duct Systems and Fabrication**

2.0 hours lecture

Recommended Preparation: SHMET 220A or SHMET 201 or both SHMET 320M1 and SHMET 320M2

Grading: letter grade or pass/no pass

This course is designed to introduce the student to techniques used to install sheet metal duct systems. Various types of duct systems and their components will be discussed.

**SHMET 271AD 2.0 units**

**Work Experience-Sheet Metal**

1.0 hour lecture, 4.1 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**SHMET 272AD 3.0 units**

**Work Experience-Sheet Metal**

1.0 hour lecture, 8.3 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**SHMET 273AD 4.0 units**

**Work Experience-Sheet Metal**

1.0 hour lecture, 12.5 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline which the Work Experience is assigned.

Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**SHMET 320M1 2.0 units**

**Basic Sheet Metal Layout and Fabrication**

1.5 hours lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course is the first part of two modules and together these modules are equivalent to SHMET 220A. This course is designed to provide the student with a basic introduction to sheet metal fabrication and layout using simple pattern development. Students will learn to identify and safely operate hand tools used in sheet metal fabrication. They will be instructed in the characteristics and properties of different sheet metal materials.

**SHMET 320M2 2.0 units**

**Basic Sheet Metal Layout and Fabrication**

1.5 hours lecture, 2.0 hours laboratory

Grading: letter grade or pass/no pass

This course is the second part of two modules and together these modules are equivalent to SHMET 220A. This course will introduce the student to sheet metal layout and fabrication techniques using parallel line development. Students will learn to identify and safely operate power machinery used in sheet metal fabrication along with the introduction of welding, plasma cutting and soldering procedures used in the sheet metal industry.

**SHMET 420AD 2.0 units**

**Sheet Metal Fabrication**

6.0 hours laboratory

Recommended Preparation: SHMET 220A or both SHMET 201 or SHMET 320M1 and SHMET 320M2.

Grading: letter grade or pass/no pass

This course is designed for the student who wishes to explore basic sheet metal fabrication as well as for the person working in the sheet metal industry who desires to upgrade their skills. The course will cover the safe use of hand and power tools, and the setup and safe operation of sheet metal fabrication equipment. This course will provide a basic introduction to sheet metal drafting and layout, along with sheet metal joining techniques which include mechanical seams, welding and soldering.

**SHMET 421AD 1.0 unit**

**Sheet Metal Layout**

3.0 hours laboratory

Recommended Preparation: SHMET 220A or both SHMET 201 or SHMET 320M1 and SHMET 320M2.

Grading: pass/no pass

This course will address the techniques used in basic sheet metal lab and fabrication. The course will also reinforce safe and correct setup and use of sheet metal fabrication machinery and hand tools. This class is an open entry/exit program, and it will require a completion of 54 lab hours.

**SHMET 423AD 3.0 units**

**Sheet Metal Layout**

9.0 hours laboratory

Recommended Preparation: SHMET 220A or both SHMET 201 or SHMET 320M1 and SHMET 320M2.

Grading: pass/no pass

This course will address the techniques used in basic sheet metal lab and fabrication. The course will also reinforce safe and correct setup and use of sheet metal fabrication machinery and hand tools. This class is an open entry/exit program, and it will require a completion of 162 lab hours.

**SIGN LANGUAGE (SIGN)**

**SIGN 1A 3.0 units**

**American Sign Language, Beginning 1**

3.0 hours lecture

Grading: letter grade or pass/no pass

This is a basic course in the instruction and practice in American Sign Language (ASL) and fingerspelling. Emphasis will be placed on the development of vocabulary, grammar, syntax, expressive, and receptive skills. This course includes an overview of the history of sign language and Deaf culture. This course is formally known as COMDI 2A.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SIGN 1B 3.0 units**

**American Sign Language, Beginning 2**

3.0 hours lecture

Grading: letter grade or pass/no pass

This is a basic course in the instruction and practice in American Sign Language (ASL) and fingerspelling. Emphasis will be placed on the development of vocabulary, grammar, syntax, expressive, and receptive skills. This course includes an overview of the history of sign language and Deaf culture. This course is formally known as COMDI 2B.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SIGN 2A 3.0 units**

**American Sign Language, Intermediate 1**

3.0 hours lecture

Prerequisite: SIGN 1A and SIGN 1B.

Grading: letter grade or pass/no pass

This is a course in intermediate instruction for the continuing student of ASL and fingerspelling. The purpose is to increase signing vocabulary, emphasizing practice in improving expressive and receptive conversational skills with the goal of increasing smoothness, clarity and speed of signing. The history of sign language and Deaf culture will also be discussed. This course is formally known as COMDI 3A.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SIGN 2B 3.0 units**

**American Sign Language, Intermediate 2**

3.0 hours lecture

Prerequisite: SIGN 1A and SIGN 1B.

Grading: letter grade or pass/no pass

This is a course in intermediate instruction for the continuing student of ASL and fingerspelling. The purpose is to increase signing vocabulary, emphasizing practice in improving expressive and receptive conversational skills with the goal of increasing smoothness, clarity, and speed of signing. The history of sign language and Deaf culture will also be discussed. This course is formally known as COMDI 3B.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SIGN 633 0.0 unit**

**Beginning Speech Reading (Lip Reading)**

2.0 hours laboratory

Grading: LBCC Non-Graded Course

This is a course in learning lip reading techniques for the hearing impaired. Special attention is given to communication difficulties of the hearing impaired. This course is formally known as COMDI 633.

**SIGN 634 0.0 unit**

**Intermediate Speech Reading (Lip Reading)**

2.0 hours laboratory

Grading: LBCC Non-Graded Course

This course provides students with an intermediate degree of proficiency in lip reading skills to enhance communication for the hearing impaired. This course is formally known as COMDI 634.

**SOCIAL SCIENCE (SOCSC)**

**SOCSC 1 3.0 units**

**Comparative World Cultures**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course compares and contrasts major civilizations using interdisciplinary approach or team teaching drawn from the Humanities and the Social Sciences. It covers the study of two or more major cultures to determine how these human communities met their basic biological, material, religious and intellectual needs, and experienced both continuity and change through time. This course is not open for credit to students who have completed Humanities 1H, Humanities 1, or Social Science 1H.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SOCSC 1H 3.0 units**

**Honors Comparative World Cultures**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course compares and contrasts major civilizations using an interdisciplinary approach or team teaching drawn from the Humanities and the Social Sciences. These teams study two or more major cultures to determine how these human communities met their basic biological, material, religious and intellectual needs, and experienced both continuity and change through time. This course is part of the Honors Curriculum. This course is not open for credit to students who have completed Humanities 1, Humanities 1H, or Social Science 1.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SOCSC 7 3.0 units**

**American Pluralism and Identity**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course explores the multicultural nature of American society from a Humanities and Social Sciences perspective. The course examines how ethnic groups in America have constructed artistic, literary, musical, philosophical and religious identities based on their traditions and experiences and seeks to understand the United States as a common culture. Using the Social Sciences to compare and contrast the origins, living conditions and experiences of America's constituent

populations, the course analyzes the complexity of the processes effecting the interaction of the American people. This course is not open for credit to students registered in or with credit in HUMAN 7. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

### **SOCIOLOGY (SOCIO)**

#### **SOCIO 1 (CAN SOC 2) 3.0 units**

##### **Introduction to Sociology**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course introduces students to the study of human behavior through an understanding of social organization. Topics include the role of culture, the development of personality, the function of group life and social institutions, the social processes and social interaction, and factors in social change and collective behavior. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

#### **SOCIO 1H 3.0 units**

##### **Honors Introduction to Sociology**

3.0 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course introduces students to the study of human behavior through an understanding of social organization. Topics include the role of culture, the development of personality, the function of group life and social institutions, the social processes and social interaction, and factors in social change and collective behavior.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

#### **SOCIO 2 (CAN SOC 4) 3.0 units**

##### **Modern Social Problems**

3.0 hours lecture

Recommended Preparation: SOCIO 1

Grading: letter grade or pass/no pass

The scope of the course will include identification and analysis of contemporary social problems in the U.S., using the theories and methodology of sociology. Among the topics considered are violence, the environment, crime, poverty, sexism, racism, social change, addiction, abuse, and alienation. The role of social institutions will also be considered.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

#### **SOCIO 11 3.0 units**

##### **Race & Ethnic Relations in the U.S.**

3.0 hours lecture

Recommended Preparation: Enrollment in or Completion of Socio 1

Grading: letter grade

The sociological study of diverse racial and ethnic groups in the U.S., including Latino, Asian American, African American and Native American sub-groups is covered. The course also includes an analysis of migration patterns, stratification, gender, social movements and inter- and intra-group relations. An examination of how social, political, economic and historical forces affect contemporary race and ethnic relations will be included. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

#### **SOCIO 13 3.0 units**

##### **Sociology of Latinos**

3.0 hours lecture

Grading: letter grade

This course is a survey of the sociology of Latinos in the United States, with a focus on their contemporary cultural and socio-economic conditions. Study will include a review of the immigration patterns of various Latino groups and their experiences with important social processes and institutions in the U.S. The effects of immigration status, race, class, gender, and Latino responses to discrimination will also be examined.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

#### **SOCIO 40 (CAN FCS 12) 3.0 units**

##### **Sociology of the Family**

3.0 hours lecture

Recommended Preparation: Socio 1

Grading: letter grade or pass/no pass

This course will examine micro and macro sociological influences on, preparation for and effects of contemporary family life, especially in the U.S. Considering options, problems and challenges of each, the following will be covered: mate selection, relationships, love, marriage, parenting, divorce, diversity, gender, sexuality, aging.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

### **SPEECH COMMUNICATION (SP)**

#### **SP 10 (CAN SPCH 4) 3.0 units**

##### **Elements of Public Speaking**

3.0 hours lecture

Grading: letter grade or pass/no pass

The theory and practice of public speaking is explored through the analysis, construction and delivery of various types of speeches.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*



**SP 20 3.0 units**

**Elements of Interpersonal Communication**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course takes an experiential approach to the study of the process of communication at both the intrapersonal and interpersonal levels. Time will be devoted to both the study of theories and experiments within the field of speech communication and their practical applications as related to perception, listening, non-verbal communication, conflict resolution and one's self-concept.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**SP 25 3.0 units**

**Elements of Intercultural Communication**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course is designed to study the relationship between communication and culture. Emphasis is placed on the development of intercultural competence through the examination and understanding of the following: cultural worldviews, cultural identities, dominant U.S. cultural patterns, diverse cultural patterns, cultural rules of interaction, linguistics, and nonverbal communication.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SP 30 (CAN SPCH 10) 3.0 units**

**Elements of Group Communication**

3.0 hours lecture

Grading: letter grade or pass/no pass

Small group communication theories, principles, and strategies are examined and applied to facilitate the achievement of group goals in a variety of contexts. Problem-solving, critical thinking, and team-building strategies are emphasized.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SP 31 3.0 units**

**Elements of Leadership Communication**

3.0 hours lecture

Grading: letter grade or pass/no pass

This course explores definitions, theories, and styles of leadership; purposes and functions of leaders in various settings; and provides opportunities for the practical application of the techniques of leadership toward understanding the role of leaders in organizational success.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**SP 50 3.0 units**

**Elements of Oral Interpretation**

3.0 hours lecture

Grading: letter grade or pass/no pass

The basic principles of oral communication are explored through oral reading of prose, poetry and dramatic literature.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**SP 60 (CAN SPCH 6) 3.0 units**

**Elements of Argumentation and Debate**

3.0 hours lecture

Grading: letter grade or pass/no pass

The nature, functions, forms, and contexts of argumentation and debate are explored and applied to both formal and informal classroom debates. An added appreciation for the role of advocacy and reasoning in a free society is examined.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**STATISTICS (STAT)**

**STAT 1 (CAN STAT 2) 3.0 units**

**Elementary Statistics**

3.0 hours lecture

Prerequisite: MATH 130, 130B or one year high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the math assessment process.

Grading: letter grade

This course will introduce students to the major concepts and tools for collecting and describing data (descriptive statistics), and drawing conclusions from data (inferential statistics). This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**STAT 1H 3.0 units**

**Honors Elementary Statistics**

3.0 hours lecture

Prerequisite: MATH 130, 130B or high school intermediate algebra with a grade of B or better as reflected by the second semester grade, or qualification through the math assessment process, and qualification for the Honors Program.

Grading: letter grade

This course will introduce students to the major concepts and tools for collecting and describing data (descriptive statistics), and drawing conclusions from data (inferential statistics).

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TECHNOLOGY (TEC)**

**TEC 60AD 3.0 units**

**Computer Aided Design and Drafting (CADD)**

2.0 hours lecture, 4.0 hours laboratory

Recommended Preparation: ARCHT 60 or 61 or DRAFT 51A

Grading: letter grade

This course introduces students to new and emerging software and equipment technologies as they become integrated in varied technical design fields. Classes may present Computer Aided Drafting and Design, CADD, parametric software programs, presentation graphics and/or various 3D printing technologies. The course is designed to enhance and upgrade the software and hardware skills of mechanical engineers, architects, interior designers, civil engineers and students employed in other design related occupations.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**THEATRE ARTS (TART)**

**TART 1 (CAN DRAM 8) 3.0 units**

**Acting 1-Introduction to Acting**

3.0 hours lecture, 1.0 hour laboratory

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course introduces the student to acting through the process of personalization. The student actor discovers and explores in him/herself qualities and experiences which are legitimate dimensions of the role he/she is creating. The course explores the concept of personalization through relaxation, concentration, sensory awareness, imagination and acting exercises as the student acquires basic insights into acting for the theatre.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 1B 2.0 units**

**Acting 1 — Movement**

2.0 hours lecture, 1.0 hour laboratory

Prerequisite: TART 1 (may be taken concurrently)

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course is an introduction to the use of the human body as an instrument of expression. The course provides for the study and application of the basic theories and principles of stage movement through the use of lecture and class exercise.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 1C 2.0 units**

**Acting 1 — Voice**

2.0 hours lecture, 1.0 hour laboratory

Prerequisite: TART 1 (may be taken concurrently)

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Recommended Preparation: TART 1B

Grading: letter grade or pass/no pass

The course provides a lucid view of the voice as an instrument of human communication. Through a series of exercises the student will free, develop and strengthen their voice. The student will practically realize an actor's sensibilities through vocal expression.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 1D 2.0 units**

**Acting 1 — Improvisation**

2.0 hours lecture, 1.0 hour laboratory

Prerequisite: TART 1 (may be taken concurrently)

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

The course will consist of an exploration of the various applications of theatrical improvisation. Drawing from both playwrights, published routines and imaginations, the actor will create fully realized characters, develop and analyze scenes. Mental agility, spontaneity, thinking on your feet and stage confidence will be emphasized.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 2 (CAN DRAM 22) 3.0 units**

**Acting 2-Technique & Characterization**

3.0 hours lecture, 1.0 hour laboratory

Prerequisite: TART 1

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Recommended Preparation: TART 1B, 1C, or 1D, and TART 25 or TART 30

Grading: letter grade or pass/no pass

This course is an investigation and development of a character by students that further strengthens techniques of personalization, role analysis and character motivation while including such disciplines as sense memory and improvisation. Additionally, investigation of the physical life of a character is emphasized, together with the technical and imaginative development of voice and body skills as a means of achieving fully realized characterizations (continued scene study, utilizing the works of major playwrights within the last hundred years).

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 2A 2.0 units**

**Acting 2-The Spoken Text**

2.0 hours lecture, 1.0 hour laboratory

Prerequisite: TART 1C

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course is an investigation and development of a character by students that further strengthens techniques of personalization, role analysis and character motivation while including such disciplines as sense memory and improvisation. Additionally, investigation of the physical life of a character is emphasized, together with the technical and imaginative development of voice

and body skills as a means of achieving fully realized characterizations (continued scene study, utilizing the works of major playwrights within the last hundred years).

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 2B 2.0 units**

**Acting 2-The Spoken Text**

2.0 hours lecture, 1.0 hour laboratory

Prerequisite: TART 2A

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

Students will engage in the preparation and presentation of a wide range of spoken texts. The goal is to free, develop and strengthen the student actor's voice so that the actor's unique sensibilities may be fully expressed through proper vocal use.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 2C 2.0 units**

**Acting 2-Movement, Mime and Mask**

2.0 hours lecture, 1.0 hour laboratory

Prerequisite: TART 1B

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course is an advanced application of the theory and principles of stage movement within specialized areas, such as mime, mask characterization, juggling and period movement styles. This course includes class exercises and lectures.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 2D 2.0 units**

**Acting 2-Movement, Mime and Mask**

2.0 hours lecture, 1.0 hour laboratory

Prerequisite: TART 2C

Corequisite: TART 51AD

Grading: letter grade or pass/no pass

This course is an advanced application of the theory and principles of stage movement within specialized areas, such as mask characterization, period movement styles and stage combat.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 3A 3.0 units**

**Acting 3-Scene Study**

3.0 hours lecture, 1.0 hour laboratory

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Recommended Preparation: TART 2 and TART 25

Grading: letter grade or pass/no pass

This course emphasizes specific performance skills and acting techniques utilizing classical scene selections, emphasizing Western playwrights of the 16th and 17th century, to heighten the intensity of the acting experience for the serious theatre student.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 3B 3.0 units**

**Acting 3-Scene Study**

3.0 hours lecture, 1.0 hour laboratory

Prerequisite: TART 3A

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

While utilizing classical scene selections, this course emphasizes Western playwrights of the 18th and 19th centuries. The focus is on the development of specific performance skills and acting techniques for the purpose of heightening the intensity of the acting experience for the serious theatre student.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 4 3.0 units**

**Acting Workshop-Style**

2.0 hours lecture, 3.0 hours laboratory

Prerequisite: TART 3A or 3B

Grading: letter grade or pass/no pass

This course focuses on individual studies and exercises to develop freedom and imagination in the preparation and performance of classical and contemporary dramatic material; scenes, cuttings and short plays.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 25 (CAN DRAM 18) 3.0 units**

**Introduction to Theatre**

3.0 hours lecture

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course provides a critical analysis of theater from an audience perspective. The elements of play production from dramatic structure, to the final presentation will be explored. Topics include reading, lectures, discussions on the theory and practice of acting, directing, producing, styles, design spectacle, and cultural background. Field trips and performance attendance is required for this course. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 30 3.0 units**

**Introduction to Dramatic Literature**

3.0 hours lecture

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This introduction to the dramatic literature of the Western world, including American drama from early beginnings to present day, examines dramatic structures, concepts, styles and themes of a selection of representative plays. The influence of the theatre and dramatic literature as a social and cultural force of change through the ages is also explored.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

<p><b>TART 32AD</b> <span style="float: right;"><b>3.0 units</b></span></p> <p><b>Stage and Screen Writing</b> 3.0 hours lecture Recommended Preparation: TART 25, FILM 1 or ENGL 26 Grading: letter grade or pass/no pass This course focuses on improvisational writing exercises designed to help all script-writers from the novice to the expert. The exercises help explore characters, the fundamental starting point for good scripts. Student works are read aloud and critiqued in a supportive and constructive atmosphere. The class culminates with the student having a good start on a full length script or a complete short script for stage and/or film. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>	<p><b>TART 43AD</b> <span style="float: right;"><b>2.0 units</b></span></p> <p><b>Costume Crafts</b> 1.0 hour lecture, 3.0 hours laboratory Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course. Grading: letter grade or pass/no pass This course presents techniques of construction of costumes and accessories for the stage, including use of fabrics, materials and equipment. Additionally, this course contains practical experience in construction of costumes and accessories for Theatre Arts Department productions. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>
<p><b>TART 39AD</b> <span style="float: right;"><b>1.5 units</b></span></p> <p><b>Theatre Practicum</b> 5.0 hours laboratory Grading: letter grade or pass/no pass This course is a hands-on, practical introduction to the function of stage, costume/wardrobe and make-up technicians and their contribution to dramatic productions. This course includes organization of the stage, lighting and properties departments, costume and make-up departments in the running of a theatre production, including equipment use and maintenance, and the function of technical stage personnel in production work. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>TART 44AB</b> <span style="float: right;"><b>2.0 units</b></span></p> <p><b>Costume Design</b> 1.0 hour lecture, 3.0 hours laboratory Prerequisite: TART 43AD Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course. Grading: letter grade or pass/no pass This course presents techniques and theories of designing costumes for the stage. Topics include design elements, execution of costume plates and costume plots, research and organization, clothing and theatrical costume history, patterns, budgets and development of costume portfolio. Field trips (when possible) will be taken to augment this process, i.e.: museums, garment district, costume rental houses, etc. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>
<p><b>TART 40AD (CAN DRAM 12)</b> <span style="float: right;"><b>2.0 units</b></span></p> <p><b>Stage Scenery</b> 2.0 hours lecture, 3.0 hours laboratory Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course. Grading: letter grade or pass/no pass This course is a study of the theory, techniques and application of scenic design for the stage including the use of painting, construction and manipulation of stage scenery. Students will gain practical experience in construction of scenery for Theatre Arts Department productions. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>TART 47</b> <span style="float: right;"><b>3.0 units</b></span></p> <p><b>Theatre Management</b> 3.0 hours lecture Corequisite: TART 51AD Grading: letter grade or pass/no pass This class is an introduction to the phases of the administration, management and promotion of a producing theatre organization. Its focus will be on the practical application of the principles learned in class, a "how to" course on developing your own theatrical company. <i>Transfer Status: Transferable to CSU Only; see counselor for limitations.</i></p>
<p><b>TART 42AD</b> <span style="float: right;"><b>2.0 units</b></span></p> <p><b>Stage Lighting</b> 2.0 hours lecture, 3.0 hours laboratory Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course. Grading: letter grade or pass/no pass This course is a study of the theory, techniques and application of stage lighting. It includes the use of lighting materials and equipment, experimenting with light and color, and lighting a stage for department productions. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>	<p><b>TART 49AD</b> <span style="float: right;"><b>1.0 unit</b></span></p> <p><b>Rehearsal and Performance</b> 8.0 hours laboratory Prerequisite: TART 1 (may be taken concurrently) Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course. Grading: letter grade or pass/no pass This course focuses on the application of acting and technical theatre theory through lab exploration in all aspects of one act play productions. It develops acting and crew capabilities, skills and disciplines through auditions, rehearsals and public performances. Students will participate in two play productions. <i>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</i></p>

**TART 50/1**

**0.5 unit**

**Major Production Performance**

2.0 hours laboratory

Recommended Preparation: Audition

Grading: letter grade or pass/no pass

This course is the study of live theatre through lab exploration of all aspects of play production involving the performer. It develops acting capabilities, skills and disciplines through the audition, preparation and presentational phases of a staged public production. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 50/2**

**1.0 unit**

**Major Production Performance**

4.0 hours laboratory

Recommended Preparation: Audition

Grading: letter grade or pass/no pass

This course is the study of live theatre through lab exploration of all aspects of play production involving the performer. It develops acting capabilities, skills and disciplines through the audition, preparation and presentational phases of a staged public production. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 50/3**

**1.5 units**

**Major Production Performance**

6.0 hours laboratory

Recommended Preparation: Audition

Grading: letter grade or pass/no pass

This course is the study of live theatre through lab exploration of all aspects of play production involving the performer. It develops acting capabilities, skills and disciplines through the audition, preparation and presentational phases of a staged public production. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 50AD**

**2.0 units**

**Major Production Performance**

8.0 hours laboratory

Recommended Preparation: Audition

Grading: letter grade or pass/no pass

This course is the study of live theatre through lab exploration of all aspects of play production involving the performer. It develops acting capabilities, skills and disciplines through the audition, preparation and presentational phases of a staged public production. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 51AD**

**1.0 unit**

**Theatre Forum**

1.0 hour lecture

Grading: letter grade or pass/no pass

This course affords the student participation as an audience member in weekly programs dealing with the art of theatre, including scene work, one-act plays, special presentations and fully staged productions. It provides live performance experience for the student to experience the work collaboration by various theatre artists such as the playwright, producer, director, choreographer, designer, performer, stage manager, technician. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**TART 55AB (CAN DRAM 14)**

**2.0 units**

**Stage Makeup**

1.0 hour lecture, 3.0 hours laboratory

Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course.

Grading: letter grade or pass/no pass

This course serves as a study of the basic theory and application of stage makeup. It includes the design and application of stage makeup to oneself, others and especially actors for various theatre productions. This course is formerly known as TART 55.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 56AD**

**2.0 units**

**Intermediate Stage Makeup**

1.0 hour lecture, 3.0 hours laboratory

Prerequisite: TART 55AB

Corequisite: TART 39AD and TART 51AD. You must enroll in the corequisite courses before enrolling in this course.

Grading: letter grade or pass/no pass

In this course students will explore three dimensional makeup such as; prosthetics, bald caps and wig-making. In addition, students will be exposed to experimentation with new products developed for theatrical make-up, and the design/rendering processes.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 60AD**

**1.0 unit**

**Special Projects in Theatre Arts**

3.0 hours laboratory

Grading: letter grade or pass/no pass

This course permits students with a generalized background in drama to explore in-depth a specific aspect of theatre arts in both theory and execution and is not covered in other courses currently offered. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**TART 75AD 2.0 units**

**Summer Repertory Theatre: Performance**  
 7.0 hours laboratory  
 Corequisite: TART 76AD  
 Recommended Preparation: Audition  
 Grading: letter grade or pass/no pass  
 Summer Repertory Theatre/Performance is the participation in an organized summer theatre program based on the procedures of the professional repertory theatre. Extensive experience in training, rehearsal and performance is explored through required live play productions.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 76AD 1.0 unit**

**Summer Repertory Theatre: Production**  
 7.0 hours laboratory  
 Grading: letter grade or pass/no pass  
 This course is a hands-on practical introduction to the function of stage, costume/wardrobe and make-up technicians and their contribution to dramatic productions. Course topics include organization of the stage, lighting and properties departments, costume and make-up departments in the running of a theatre production, including equipment use and maintenance, and the function of technical stage personnel in production work.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**TART 201 1.5 units**

**Show Business Careers-How to Start**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: TART 1  
 Grading: letter grade or pass/no pass  
 This course will examine primary and secondary show business career options available in the greater Los Angeles area, as well as other geographic regions. The course specifics will include, but not be limited to: On & off camera behavior, agenting, producing, unions, broadcasting and production trades.

**TART 204 1.5 units**

**Marketing Yourself for Show Business**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: TART 1  
 Grading: letter grade or pass/no pass  
 This course examines aspects of show business career self marketing. This course content will explain all avenues of options in a hands-on style. This course will include, but not be limited to: Photographs, websites, professional publications, Union programs and guest lecturers.

**TART 205 3.0 units**

**Auditions for: Theatre & Film**  
 3.0 hours lecture, 1.0 hour laboratory  
 Prerequisite: TART 1  
 Recommended Preparation: TART 1B and TART 1C and TART 2  
 Grading: letter grade or pass/no pass  
 This course prepares performers for the practical application of the professional audition process. Course exercises assist in developing an actor's professional manner, concentration and awareness. Selection of material, analyzing the text, presenting the material,

preparation of a resume with pictures and the presentation of self for maximum effect are covered in the course. Various types of auditions will be explored, including but not limited to; stage, film & television auditions, commercial auditions and cold-reading technique. Guest lecturers may be part of the class and simulated auditions plus filming students in simulated auditions will aid in the learning process.

**TART 206A 1.5 units**

**Audition and Interview Skills-Beginning**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: TART 1  
 Grading: letter grade or pass/no pass  
 This course will examine the beginning techniques for show business professional auditioning and interviewing. Course specifics will include but not be limited to: Live theatre, television, commercials and elements of broadcasting.

**TART 206B 1.5 units**

**Audition and Interview Skills — Advanced**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: TART 206A  
 Grading: letter grade or pass/no pass  
 This course is an advanced and in-depth examination of techniques for show business professional auditioning and interviewing. The course specifics will include but not be limited to: Live theatre, television, and commercials.

**TART 208A 1.5 units**

**Breaking into Commercials — Beginning**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: TART 1  
 Grading: letter grade or pass/no pass  
 This course examines fundamental aspects of television commercials in the greater Los Angeles area, as well as other geographic regions. The course specifics will include, but not be limited to: national, regional, local and wild spots as well as auditioning, product copy, sponsors, pay tables, residuals, and headshots.

**TART 208B 1.5 units**

**Breaking Into Commercials — Advanced**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: TART 208A  
 Grading: letter grade or pass/no pass  
 This course explores further aspects of television commercials in the greater Los Angeles area, as well as other geographic regions. The course specifics will include, but not be limited to: Advanced audition techniques, product copy, sponsors, pay tables, residuals and headshots.

**TART 210A 1.5 units**

**Voice-Over Techniques — Beginning**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: TART 1  
 Recommended Preparation: TART 1C  
 Grading: letter grade or pass/no pass  
 This course is an examination of preliminary techniques for commercial and theatrical voice-overs. Course topics will include but not be limited to feature film additional dialogue recording, animation, looping techniques and network promotionals.

**TART 210B** 1.5 units  
**Voice-Over Techniques-Advanced**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: TART 210A  
 Recommended Preparation: TART 1C  
 Grading: letter grade or pass/no pass  
 This course will examine the advanced techniques of theatrical and commercial voice-overs. Course topics will include but not be limited to, feature film additional dialogue recording, animation, looping, character and network promotionals.

**TART 212A** 1.5 units  
**Acting in Film — Beginning**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: TART 1  
 Grading: letter grade or pass/no pass  
 This course is an examination of beginning techniques for acting in film. Course topics will include but not be limited to, studio format, on location, tracking, steady-cam, and multiple camera and digital aspects.

**TART 212B** 1.5 units  
**Acting in Film — Advanced**  
 1.0 hour lecture, 2.0 hours laboratory  
 Prerequisite: TART 212A  
 Grading: letter grade or pass/no pass  
 This course is an examination of multiple aspects and advanced techniques for acting in film. Topics will include but not be limited to, studio, on location, multi-camera, steady-cam and digital aspects.

## TRADE AND INDUSTRIAL (T\_I)

**T\_I 200C** 1.0 unit  
**Intro to Construction Trades**  
 1.0 hour lecture  
 Grading: letter grade  
 This course is designed to give entry level students an introduction to the building and construction industry. The class will review the basic skilled trades areas such as Carpentry, Electrical and Sheet Metal. This course includes duties and responsibilities of the careers, labor market information, as well as contacts with employers, apprenticeship programs and unions.

## WELDING (WELD)

**WELD 211** 9.0 units  
**Fundamentals of Welding & Tools of Trade**  
 5.0 hours lecture, 13.3 hours laboratory, 0.3 hour supplemental learning  
 Grading: letter grade or pass/no pass  
 This course is an introduction to welding, emphasizing oxy-acetylene welding, oxy-acetylene cuttings, braze welding and pipefitting. It is suitable for students majoring in other occupational areas, such as auto body repair, auto mechanics, machine tool or aircraft maintenance. Good health, manual dexterity and corrected or uncorrected 20/20 vision are necessary to be employable in the welding industry. Students are required to attend 5 hours at the Career Technical Education (CTE) success center for specially designed activities and assignments that relate to this course content. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**WELD 212** 9.0 units  
**ARC Welding & Fabrication**  
 5.0 hours lecture, 13.3 hours laboratory, 0.3 hour supplemental learning  
 Grading: letter grade or pass/no pass  
 This is an introductory course to arc welding fundamentals. Topics include: safety practices, welding machines, basic welding symbols, metal identification (ferrous, non-ferrous, corrosion resistant and cast iron), inspection and testing procedures and welding codes. Skills learned will include flat, horizontal, vertical, overhead fillet welds and flat V-groove butt welds. It also covers correct equipment set up, safety practices and general related information. Good health, manual dexterity and corrected or uncorrected 20/20 vision are necessary to be employable in the welding industry. Students are required to attend 5 hours at the Career Technical Education (CTE) success center for specially designed activities and assignments that relate to this course content. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**WELD 213** 9.0 units  
**Advanced ARC Welding**  
 5.0 hours lecture, 13.3 hours laboratory, 0.3 hour supplemental learning  
 Grading: letter grade or pass/no pass  
 This is an advanced course to arc welding fundamentals. This class prepares students to take the Los Angeles City certification test in structural steel and or sheet metal welding and to advance knowledge and skills in arc welding. It also includes correct equipment setup, safety practices, general related information, code specifications, blueprint reading, inspection procedures, and basic welding metallurgy. Good health, manual dexterity and corrected or uncorrected 20/20 vision are necessary to be employed in the welding industry. Students are required to attend 5 hours at the Career Technical Education (CTE) Success Center for specially designed activities and assignments that relate to this course content. This course may be scheduled using the “To Be Arranged” (TBA) scheduling format. Please see the section on “Curriculum Offerings” for a description of requirements for completing TBA.

**WELD 214** 9.0 units  
**Inert Gas Welding (Heliarc, MIG)**  
 5.0 hours lecture, 13.3 hours laboratory, 0.3 hour supplemental learning  
 Grading: letter grade or pass/no pass  
 This course is an introduction to inert gas welding skills, including GTAW (TIG-heliarc) welding of carbon steel, stainless steel, aluminum, and GMAW (MIG) of steel and aluminum and intershield welding. The student will learn the skills necessary for a career as an aerospace industry worker. This class also covers correct equipment setup, safety practices and general related information. Good health, manual dexterity and corrected or uncorrected 20/20 vision is necessary to be employed in the welding industry. Students are required to attend 5 hours at the Career Technical Education (CTE) Success Center for Specially designed activities and assignments that relate to this

course content. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**WELD 221 4.0 units**

**Arc Welding Structural Certification**

2.0 hours lecture, 6.0 hours laboratory

Grading: letter grade or pass/no pass

This course is designed to prepare students to take the Los Angeles City Certification test in structural steel and / or sheet metal welding. It is also designed for students who wish to advance their knowledge and skills in welding. The course includes safety, electrode identification, welding code applications and basic welding metallurgy, and basic pipe welding techniques.

**WELD 400AD 2.0 units**

**Welding (General)**

1.0 hour lecture, 3.0 hours laboratory

Grading: letter grade or pass/no pass

This course teaches the basic oxygen acetylene, inert gas including GTAW (TIG-heliarc), and arc welding processes. The student will learn welding of carbon steel, stainless steel, aluminum, and GMAW (MIG) of steel and aluminum. This class' instruction also covers correct equipment setup, safety practices and general related information.

**WELD 410AD 2.0 units**

**Welding (ARC)**

6.0 hours laboratory

Grading: letter grade or pass/no pass

This course covers the techniques of arc welding of steels, cast iron, aluminum, hard facing, cutting, safety practices and related information. This course may take a maximum of four semesters.

**WELD 411AD 1.0 unit**

**Welding (ARC)**

3.0 hours laboratory

Grading: letter grade or pass/no pass

This course provides practice in arc welding procedures on various types of metal and the opportunity to learn safety practices.

**WELD 412AD 3.0 units**

**Shielded Metal Arc Welding (ARC)**

9.0 hours laboratory

Grading: letter grade or pass/no pass

This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 162 lab hours. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**WELD 413AD 2.0 units**

**SMAW Flat/Horz Groove Welds with Backing**

6.0 hours laboratory

Grading: letter grade or pass/no pass

This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 108 lab hours. This course may be scheduled using the "To Be Arranged" (TBA)

scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**WELD 414AD 2.0 units**

**SMAW Vert & OV/HD Grv Welds w/ Backing**

6.0 hours laboratory

Grading: letter grade or pass/no pass

This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 108 lab hours. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**WELD 415AD 2.0 units**

**SMAW Flat/Horz Open Root Groove Welds**

6.0 hours laboratory

Grading: letter grade or pass/no pass

This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 108 lab hours. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**WELD 416AD 2.0 units**

**SMAW Vert & O/H Open Root Groove Welds**

6.0 hours laboratory

Grading: letter grade or pass/no pass

This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 108 hours. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**WELD 460AD 2.0 units**

**Welding (Acetylene Gas)**

6.0 hours laboratory

Grading: letter grade or pass/no pass

This course explores the techniques of oxy-acetylene gas welding of steels and aluminum, hard facing, flame cutting, brazing and oxy-hydrogen welding. Safety practices and general related information is included. May take a maximum of four semesters.

**WELD 461AD 1.0 unit**

**Oxygen Acetylene Welding**

3.0 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of the techniques of oxy-acetylene gas welding of steels and aluminum, hard facing, flame cutting brazing, oxy-hydrogen welding and safety practices.



**WELD 480AD 2.0 units**

**Welding (Inert Gas)**

6.0 hours laboratory

Grading: letter grade or pass/no pass

This course provides the study and practice with inert gas welding skills, including GTAW (TIG-heliarc) welding of carbon steel, stainless steel, aluminum, and GMAW (MIG) of steel, aluminum and intershield welding (FCAW). The student can learn the skills necessary for a career as an aerospace industry worker. Course instruction also covers correct equipment setup and safety practices.

**WELD 481AD 1.0 unit**

**Welding (Inert Gas)**

3.0 hours laboratory

Grading: letter grade or pass/no pass

This course provides practice in the techniques of metallic and tungsten inert gas welding, welding of steels, aluminum, magnesium, cast iron and safety practices.

**WELD 482AD 2.0 units**

**Gas Tungsten Arc Welding Basic Joints**

6.0 hours laboratory

Grading: letter grade or pass/no pass

This course will address the techniques of Tungsten Inert Gas arc welding (TIG) of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program and it requires the completion of 108 lab hours. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**WELD 483AD 2.0 units**

**Gas Metal Arc/Flux Core Arc Welding**

6.0 hours laboratory

Grading: letter grade or pass/no pass

This course will address the techniques of Gas Metal Arch Welding (GMAW) and Flux Core Arc Welding (FCAW) of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/exit program, and it requires the completion of 108 lab hours. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

**WELD 601 0.0 unit**

**Welding Practice**

1.0 hour laboratory

Grading: LBCC Non-Graded Course

This course offers the new student or a former student additional assistance in welding and or helps improve mastery of a specific welding position. Also, a student can use this course to practice for a practical performance test. This course may be scheduled using the "To Be Arranged" (TBA) scheduling format. Please see the section on "Curriculum Offerings" for a description of requirements for completing TBA.

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Ross Miyashiro..... Dean, Admissions & Records  
Kaneesha Tarrant..... Dean, Counseling  
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Mike MacCallum..... Dean, Financial Aid

Vacant..... Dean Student Affairs, Physical  
Education & Athletics  
Constance Sears ..... Athletics Director  
Saadia Porche ..... Director, EOPS/CARE  
Margaret Antonio-Palomares..... Director, Project Launch

**DEPARTMENT HEADS**

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Computer & Business Info. Sys..... Renae Powell  
Computer Applications & Office Tech. .Gene Carbonaro  
History & Political Science..... Eugene Goss  
Culinary Arts ..... Pierre Jues  
Public Services ..... Ralph De La Ossa  
Social Science..... Nancy Melucci

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Family & Consumer Studies ..... Debra Schaefer  
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Theatre, Dance & Film ..... Sheree King

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Reading..... Delia DuRoss  
English as a Second Language..... Baruch Elimelech  
Foreign Languages..... Rigo Ibarra

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Centers for Learning Assist. Svcs..... Lee Douglas  
Library Services ..... Dele Ukwu

**School of Physical Education & Athletics**

Physical Education..... Wil Shaw

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Construction & Related Trades..... Javier Rivera  
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Manufacturing Technologies ..... Winford Sartin

**Student Services**

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Counseling, PCC ..... Jeri Florence

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- AKHAVAN, MEHRZAD**  
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M.S., University of Phoenix, California
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<b>CANO, ANDREA C.</b> English as a Second Language	<b>CLARK, COLIN T.</b> Psychology	<b>CRUTCHFIELD, RASHIDA M.</b> Sociology
<b>CAREY, JAMIE E.</b> English	<b>CLARY, CAROL</b> Music	<b>CUDDIHY, WILLIAM J.</b> History
<b>CARFAGNO, JOSEPH D.</b> Allied Health, DMI	<b>CLOUGH, RICHTER H.</b> Administration of Justice	<b>CURINGTON, DEBBIE A.</b> Nursing
<b>CARMONA, MARTHA</b> Physical Education	<b>COHEN, AARON G.</b> Psychology	<b>CURL, BEVERLY</b> Public Services
		<b>CURTIS, ELIZABETH R.</b> Psychology



<b>DAHMS ROGERS, KATHLEEN</b> English	<b>DOWLING, DENISE E.</b> English, ESL	<b>FETTERS, DOUGLAS E.</b> Geography
<b>DAKDOUK, ROULA R.</b> Mathematics, MSC	<b>DROBNY, MARY M.</b> Art	<b>FIGUEROA, OTTO</b> Geology
<b>DAMMENA, DIMETROS W.</b> Mathematics	<b>DU BOIS, HENRY J.</b> Library	<b>FINNERTY, EDWARD W.</b> Physical Education
<b>DANIEL-BERHE, SQUARE K.</b> Mathematics, MSC	<b>DUENAS, H. ANTHONY</b> Basic Adult Education, MDSC	<b>FLAMING, SUSAN L</b> Emergency Medical Tech
<b>DARR, NORMA M.</b> English	<b>DUMARS, DENISE D.</b> English	<b>FLORES, MIGUEL A.</b> Architectural Design
<b>DAUCHAN, DESHA</b> Film	<b>DUNN, JENNIFER</b> English	<b>FOGEL, SETH D.</b> Administration of Justice
<b>DAUGHERTY, SARAH</b> English	<b>DUVALL, MARY</b> English	<b>FORBES, JUNKO</b> Mathematics, MSC
<b>DAUGHERTY, SEAN G.</b> Fire Science	<b>EDWARDS, ARNETTE S.</b> Counseling	<b>FORSGREN, KRISTY L.</b> Biology, MDSC
<b>DAVIDSON, STEPHANIE</b> Reading	<b>EI-ABYAD, ABDELWAHAB</b> Mathematics, MDSC	<b>FOUNTAIN, CATHERINE M.</b> Child Development
<b>DAVIES, AGNES S.</b> English, Reading & Writing Center	<b>ELLIS, ROBERT</b> Biology	<b>FOX, STEVEN S.</b> Art
<b>DAVIS, ALICIA</b> Child Development	<b>ELSAYED, MOHAMAD</b> Mathematics	<b>FRANCE, NEIL A.</b> Photography
<b>De LIMA, MARGUERITE E.</b> English as a Second Language	<b>ENDICOTT, SUSAN C.</b> Vocational Nursing	<b>FRANCOIS, ANGELI</b> English
<b>De LOS RIOS, KATYA</b> Economics	<b>ENGELBACH, JONATHAN P.</b> Electricity	<b>FREED, ROD A.</b> Mathematics, Statistics
<b>DEAN, SYLVIA M.</b> Social Science	<b>ENGELHARDT, JAMES F.</b> Film	<b>FREEDMAN, RICHARD O.</b> Theater Arts
<b>DEARING, MARY K.</b> Nursing, Associate Degree	<b>ESSAYLI, MOUSSA</b> Mathematics	<b>FREEMAN, DOMINIC</b> Physical Education
<b>DEES, LAUREN M.</b> Art	<b>ESTEPHAN, JOSEPH</b> Mathematics, STAT, MSC	<b>FREIBURGER, STEVEN</b> Computer & Business Information Systems
<b>DEGUIRE, LINDA J.</b> Communicative Disorder	<b>ESTES, MERION M.</b> Art	<b>FRESCH, MARCIA A.</b> English
<b>DEMINTER, TYRUS</b> Physical Education	<b>ESTRADA, GILBERT V.</b> History & Political Science	<b>FRYE, CYNTHIA L.</b> Journalism
<b>DENMAN, JOHN F.</b> Anthropology	<b>EYRE, KELLY</b> English	<b>FUCHS, JOHN D.</b> Administration of Justice
<b>DI GIOVANNI, SYBIL B.</b> Basic Adult Education, MDSC	<b>FACTOR, HELEN J.</b> English as a Second Language	<b>GAGEN, LAUREL M.</b> Physical Education
<b>DIAZ, CARLOS O.</b> English as a Second Language	<b>FAREWELL, WENDY H. B.</b> English as a Second Language	<b>GALIAS, DIANA B.</b> Physical Education
<b>DIAZ-BROWN, WILLIAM</b> History	<b>FARGO, BRYAN D.</b> Diesel Mechanics	<b>GALVEZ, DELMY M.</b> English as a Second Language
<b>DISNER, EVY</b> English as a Second Language	<b>FARRINGTON, BRENDA G.</b> History	<b>GAMMA, CORINA D.</b> Photography
<b>DITTMAR, DANI-SUE</b> Radio & Television	<b>FEINER, HENRI</b> Mathematics, MSC	<b>GARCIA, DIANA</b> Biology
<b>DOUGLAS, MELISSA R.</b> Physical Education	<b>FERGUSON, MELISSA</b> Psychology	<b>GARCIA, GUILLERMO A.</b> Financial Aid
<b>DOWLATSHAHI, KRISTINA</b> Speech	<b>FERRY, MICHELLE LYNN</b> History	<b>GARVIN, TIMOTHY ANDREW</b> History

- GERDTS, NANETTE M.**  
English, Reading, WRC
- GHAFELEHBASHI, MOHAMMAD M.**  
Mathematics, Statistics
- GLASSMAN, JULIA**  
English
- GLOVER, CHRISTOPHER S.**  
English, Writing & Reading Center
- GODFREY, SCOTT E.**  
Career Technology Success Center, MDSC
- GODWIN, SUSAN E.**  
Mathematics, MSC
- GOLD, DEBRA ANN**  
English as a Second Language
- GOMEZ, BENITO**  
Spanish
- GOMEZ-ORTIGOZA, LINDA J.**  
Family & Consumer Studies
- GONZALEZ, ELIZABETH**  
English, Reading & Writing Center, MDSC, PUENTE
- GORNTO, HEIDI**  
Speech Communication
- GOTTSCHESWSKI, AGNES**  
Music
- GOURLEY, MATTHEW J.**  
Theatre Arts, Radio/Television
- GRAHAM, GENE F.**  
Nursing
- GRAHAM, JIANNING Y.**  
English as a Second Language
- GRAHAM, KENNETH L.**  
Political Science
- GRANTHAM, CONNIE F.**  
Physical Education
- GRAS, LAUREN**  
English, STAR
- GREENBERG, BRUCE A.**  
Business, General
- GREENE, CHAD J.**  
Multidisciplinary Success Center
- GREER, DAVID H.**  
Air Conditioning/Refrigeration
- GREGORY, FAYE M.**  
Nursing, Associate Degree
- GREY, GENE**  
Philosophy
- GRIFFIN, WALTER A.**  
Electricity
- GROOMS, JEAN R.**  
English
- GROPP, EDWARD B.**  
Economic & Resource Development
- GROTE, PATRICIA B.**  
Computer Applications & Office Technology
- GRUTZMACHER, WAYNE T.**  
History
- GUADAGNINI, ROSIE MARIE**  
Nursing, Associate Degree
- GUEFFROY-BARKER, JEANNETTE V.**  
Physical Education
- GUSTAFON, LARRY L.**  
Welding
- GUITERREZ, ERIKA**  
Sociology
- GUITERREZ, KIMBERLY P.**  
English, MDSC
- GUTIERREZ, LETICIA**  
Spanish
- GUZIK, ELIZABETH A.**  
Writing & Reading Center
- HA, DONGQUAN**  
Physical Education
- HADDIX, CARRIE C.**  
English
- HAEHL, DONNA S.**  
English as a Second Language
- HAGEMAN, JUSTIN**  
Music
- HAGHIGHAT, SHAYMA**  
Speech Communication
- HALEWIJN, DANIELLE C.**  
Food and Nutrition
- HALL, HOLLY M.**  
Child Development
- HALL, LAUREN T.**  
Dance
- HAMM, DEBORAH L.**  
Communicative Disorder
- HANEY, BERNADETTE A.**  
English
- HAO, JOSEPHINE**  
Interior Design
- HARRIS, JERMAINE M.**  
Economics
- HARRIS, JONATHAN**  
Workforce Development
- HARRISON, ELEANOR C.**  
Anthropology
- HASSAN, ALHANI**  
CISCO
- HAVEN II, MICHAEL P.**  
English
- HAWK, GUTA T.**  
Dance
- HAY-LAVITT, ALISON**  
Political Science, Social Science
- HAYES, FRANK**  
Fire Science
- HEBER, LESLIE A.**  
CBIS
- HEFNER, SHARRI**  
Film
- HELDBERG, FREDERICK W.**  
Forklift, Diesel Mechanics
- HELLER, ROSEANNE**  
Food & Nutrition
- HEMKER, FREDERICK**  
Political Science
- HENDRICKS, GRETA R.**  
English as a Second Language
- HENDRIX, JEFFREY G.**  
Dance
- HEREDIA, CLAUDIA**  
Child Development
- HERNANDEZ-MALDANADO, ESPERANZA**  
Student Health Services
- HERRERA, JILL M.**  
Child Development
- HERSHENSON, KENNETH B.**  
Aviation Maintenance
- HIGGINS, KOLLEEN M.**  
English
- HILL, GLEN P.**  
Auto Mechanics
- HINDMAN, ELIZABETH A.**  
English
- HINES, DEBRA D.**  
Medical Assisting
- HINTON, MARION F.**  
Library
- HO CHEN, JENNIFER**  
Biology, MDSC
- HOANG, THU-HANG T.**  
Mathematics
- HOERNER, DAWN H.**  
Vocational Nursing
- HOFFERD, RICHARD J.**  
English as a Second Language, Reading
- HOOVLER, PATRICIA J.**  
English

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<b>HOPKINS, ALAN</b> Mathematics	<b>JONES, GABRIELLA</b> Speech Communication	<b>KOLOKOTRONES, ALEXIA</b> Speech Communication
<b>HOWARD, CHARLA V.</b> English	<b>JONES, KRIS D.</b> Physical Geography	<b>KOMAI, STACY</b> Physical Education
<b>HSIAO, JOHN W.</b> English	<b>JONES, SHERYL</b> CBIS, COMIS	<b>KOMINE, JUSTIN</b> Astronomy
<b>HUCKER, DONALD W.</b> Management, Business	<b>JORDAN, ANGELA</b> Dance	<b>KONYA, AMANDA E.</b> Photography
<b>HUERTA JR. SALOMOM M.</b> Art	<b>KAKOVITCH, SAMUEL</b> English as a Second Language	<b>KOTTAB, FARSIO</b> CAOTC
<b>HUNTER, DENISE S.</b> Counseling	<b>KAMINSKI, KATHRYN</b> Fashion	<b>KOVEN, MARLENE</b> Spanish
<b>HUNTER, ELLA M.</b> English, STAR	<b>KANE, CLIFFORD C.</b> English	<b>KRAMER, LIESKE J.</b> Vocational Nursing Allied Health
<b>HUNTER, SUSAN V.</b> Real Estate	<b>KANE, EDWARD</b> Library	<b>KRAWCZYK, SYLVIA M.</b> Music
<b>IBANEZ, CRAIG G.</b> Fire Science	<b>KANEMARU, WENDA L.</b> Career Technology Success Center	<b>KRUEGER, LARRY K.</b> Speech
<b>IBRAHIM, MAJED S.</b> Mathematics, MSC	<b>KANG, CHAN</b> Mathematics	<b>LaPORTA, MICHELE</b> English
<b>ICARO-BOISER, RUBIROSA</b> Counseling & Student Support Services	<b>KASA, DAVID P.</b> Physical Education	<b>LAMAR, JANE</b> Fashion Design
<b>ITO, MANAMI</b> Japanese	<b>KEARNEY, KEVIN M.</b> Music	<b>LAMAS, CATHERINE</b> English
<b>JACOBSEN, VICTOR G.</b> Physical Education	<b>KEEN, PHILLIP</b> Music	<b>LAMBROS, THEODORE</b> Drafting & Mechanical Design
<b>JAGODINA, MARIANNA</b> Mathematics, MSC	<b>KENAH III, WILLIAM H.</b> English	<b>LAMPE, HOLLY ANN</b> Dance
<b>JAHANI, FEREIDOUN</b> Mathematics, MSC	<b>KHAN, TANZIL A.</b> Child Development	<b>LANDON, HAROLD F. JR</b> Theatre Arts
<b>JALALI, SAMMUEL M.</b> Statistics	<b>KHERADYAR, HABIB</b> Art	<b>LANGEVIN, DELORES M.</b> Mathematics, MSC, MDSC
<b>JANOLINO, GRACELYN D.</b> Food and Nutrition	<b>KIM, EDWARD B.</b> Mathematics, Statistics	<b>LARIOS, ROCIO</b> Sociology
<b>JAYNES, WILLIAM E.</b> Art	<b>KIM, SARAH E.</b> English as a Second Language	<b>LAU, LINUS S.</b> Radio & Television, Film
<b>JENSEN, KARIN</b> Physical Education	<b>KINDWEILER, MARIA</b> English as a Second Language	<b>LAUDICINA, PAUL F.</b> Allied Health, Diagnostic Medical Image
<b>JEPPESEN, GEORGETTE</b> Film	<b>KITAGAWA, KUMIKO K.</b> Japanese	<b>LAW, JERRY M.</b> Philosophy
<b>JOHNSON, BROOKE</b> Sociology	<b>KITCHENS, KATINA</b> Physical Education	<b>LAWLER, JEFFREY</b> History
<b>JOHNSON, KIMBERLY K.</b> Anatomy, Biology	<b>KLEIN, BEN D.</b> English, WRSC, MDSC	<b>Le BARBU, ANNE Y.</b> French
<b>JOHNSON, MARY M.</b> Nursing, Allied Health	<b>KLUNE, ANTHONY J.</b> Physical Education	<b>LE, OCTAVIAN T.</b> Anatomy
<b>JOHNSON, ROBERT</b> Sheet Metal	<b>KNUUTILA, JILL M.</b> Nursing, Associate Degree	<b>LENOIR, JAMIE</b> Speech Communications
<b>JOHNSON, ROGER R.</b> Music	<b>KOBA, DEAN N.</b> Music	<b>LEE LIN, JEAN S.</b> Chemistry
<b>JONES, DEBRA</b> Nursing, Associate Degree	<b>KOLISNYK, CHRISTINE A.</b> Fashion Design	<b>LEE, BETTY</b> Reading

- LEE, RALPH E.**  
Diagnostic Medical Image
- LEHIGH, STEVEN M.**  
Economics
- LENHERT, JOHN K.**  
Mathematics, MSC
- LEONGSON, JAIME A.**  
Mathematics
- LEVINE, MICHAEL A.**  
Business, Management
- LEVY, CHARLES S.**  
Sociology
- LEWIS, PATRICK J.**  
Aviation Maintenance
- LIAO, TING S.**  
Biology
- LINARES, MANUEL**  
Spanish
- LINDEN, RONALD E.**  
Art
- LOBLINER, ROBERT H.**  
Chemistry
- LONG, JULIE R.**  
Music
- LOONEY, NORMAN C.**  
Art
- LOPES, KELLY M.**  
English, WRSC, MDSC
- LOPEZ, ANTHONY C.**  
Administration of Justice
- LOPEZ, MARCO A.**  
Chemistry
- LOSCH, JESSICA**  
Electricity
- LOUIS, IRIS G.**  
Spanish
- LOW, SANDRA**  
Art
- LUCA, NANCY J.**  
Music
- LUCHTMAN, ALANA L.**  
English as a Second Language
- LUGO, DENISE I.**  
Art
- LUNA, KENNETH**  
Spanish
- LY, THANH L.**  
EOPS
- MACIAS, SUSAN E.**  
English as a Second Language
- MACIVER, ELFRIEDE H.**  
Communicative Disorder
- MACKOWIAK, JAMES F.**  
Computer & Business  
Information Systems, CS
- MADSEN, RODNEY A.**  
Economics
- MAGNO, HECTOR R.**  
Interior Design
- MALEVITZ, PAUL J.**  
English as a Second Language
- MALLORY, FERNANDO P.**  
Human Services/Social Work
- MANLOWE, MELINDA A.**  
Speech Communication
- MAPES, SUZANNE**  
Photography
- MARKSBURY, GARY**  
History
- MARRUJO, LUCIENNE**  
Physical Education
- MARSHALL, MARY C.**  
Food and Nutrition
- MARTIN, DEBRA J.**  
English as a Second Language
- MARTIN, GREGORY**  
Music
- MARTIN, NITA**  
Reading
- MARTINEZ, PABLO A.**  
Physical Education
- MARTINEZ, RICHARD J.**  
Administration of Justice
- MAURO-ATKINSON, LUANNE**  
Child Development
- MAXWELL, GRACE**  
Dance
- MAZUREK, NANCY A.**  
Child Development
- Mc GEE, ELIZABETH B.**  
Multidisciplinary Success Center
- McKINLAY, CHRISTOPHER**  
Mathematics & Engineering
- McMICKENS, TAISHA**  
Speech Communications
- McMILLEN, ROXANNE S.**  
Computer Applications & Office  
Technology
- McMURRAY, KATHRYN H.**  
English
- McWHORTER, AMY L.**  
Biology
- MCALPIN, ROCHELLE**  
Nursing, Associate Nursing
- MEADE, EVELYN M.**  
Speech Communication
- MECKES, ANA M.**  
Assessment Center
- MEDINA, JOHN L.**  
Automotive Technology
- MEIER, PATRICIA A.**  
Allied Health
- MENACHEM, ISRAEL**  
Mathematics
- MENARY, JOHN A.**  
Geography
- MENDOZA, JAVIER M.**  
Journalism
- MERCADANTE, MICHAEL J.**  
Environmental Science
- MERCADO, EFREN**  
Physics
- METOYER, REBECCA A.**  
Reading, WRSC
- MIHELE, CAMELIA**  
Statistics, Mathematics
- MILLER, DANNY G.**  
Computer & Business  
Information Systems
- MILLER, EILEEN**  
Administration of Justice
- MILLER, MARIAN L.**  
Human Services/Social Work
- MILLS, MICHAEL D.**  
Physical Education
- MINEAR, SAMANTHA F.**  
Art
- MITCHELL, DOROTHY B.**  
Human Services/Social Work
- MIYAGAWA, JENNIFER A.**  
Food & Nutrition
- MOCHIZUKI, SHUNSUKE S.**  
Japanese
- MOEN, CAROLYN S.**  
Electricity
- MONCURE, CARMEN S.**  
Administration of Justice
- MONGE, J. MICHAEL**  
Philosophy
- MONTAGNE, LISA L.**  
English
- MONTEZ, SHILITA K.**  
English, MDSC, SANKOFA
- MONTOYA, MANUEL**  
Financial Aid, Project Launch

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<b>MOORE, ALEXIS M.</b> Art	<b>NELSON, LINNEA R.</b> CAOTC, CAOTT	<b>PADBORG, KNUD H.</b> English as a Second Language
<b>MOORE, ROBIN D.</b> Child Development	<b>NESCHAUT, VICTOR</b> Film	<b>PAIK-SCHOENBERG, JEAN</b> Journalism
<b>MOORE, SCOTT P.</b> Photography	<b>NETZER, JEFFREY B.</b> Art	<b>PAISON, ERIC R.</b> Anthropology
<b>MOORHEAD, CHRISTINA L.</b> Speech Communication	<b>NEUMANN, RITA E.</b> Speech Communication	<b>PAKULA, JENNIFER L.</b> Economics
<b>MORAGA, PETE</b> Draft & Mechanical Design	<b>NEWMAN, LISA M.</b> Human Services/Social Work	<b>PANTO, DANIELLE D.</b> English
<b>MORALES, ALBERTO E.</b> Anthropology	<b>NGUYEN, HANG M.</b> Mathematics, MSC	<b>PARILLA, SEAN E.</b> Administration of Justice
<b>MORALES, JANETTE V.</b> Project Launch	<b>NIKOLAOU, URSULA J.</b> Spanish	<b>PARKER, SHAWN M.</b> Emergency Medical Technology
<b>MORIDZADEH, KOBY</b> Food and Nutrition	<b>NORMAN, DENISE</b> Psychology	<b>PARODI, CLAUDIA</b> Spanish
<b>MORRIS, KELLY L.</b> Physical Education	<b>NOVY, ADAM L.</b> English	<b>PARRAGA, KORI ANNE</b> Administration of Justice
<b>MORRIS, KENT</b> Anthropology	<b>NOWAK, RAY M.</b> Music	<b>PAUNOVIC, MILA V.</b> Nursing, Associate Degree
<b>MORTON, ELAINE D.</b> Counseling & Student Support Services	<b>NOYES, PATRICK</b> Physical Education	<b>PAYNE, RICK L.</b> Real Estate
<b>MOSQUEDA, CYNTHIA</b> Economic & Resource Development	<b>NUNEZ, MARIA TERESA C.</b> Spanish	<b>PEARCE, PETER R.</b> Radio & Television
<b>MUCCI, JAMES A.</b> Business International, Business Management	<b>NYSEN, ADAM M.</b> Physical Education	<b>PEARLMAN, JESSICA</b> Music
<b>MUDUNURI, SHAILENDRA S.</b> Anatomy	<b>O'BRIEN, ROSE</b> Reading	<b>PECHARICH, JOSEPH C.</b> Electricity
<b>MUDUNURI, SUMAN S.</b> CAOTC	<b>O'CONNOR, BARBARA</b> Child Development	<b>PEPRAH, EBENEZER</b> Geography
<b>MUNICH, CHRISTINA</b> Theater, Dance & Film, Theatre Arts	<b>O'DONNELL, BRIAN</b> Speech Communication	<b>PETKE, RON</b> Radio & Television
<b>MUSSELMAN, BERNARD G.</b> Nursing, Associate Degree	<b>O'DONNELL, RUTH O.</b> Anatomy	<b>PHILLIPS, KIMBERLY M.</b> Sociology
<b>MYERS, DARYA N.</b> English, MDSC	<b>O'NEIL, BRIAN P.</b> History	<b>PHILLIPS, MICHAEL</b> Aviation Maintenance
<b>MYERS, ROBERT R.</b> Physical Education	<b>OGILVIE, GINA M.</b> Multidisciplinary Success Center	<b>PICKETT, PATRICIA A.</b> Culinary Arts
<b>NABULSI, AKRAM</b> Mathematics, MSC	<b>OKANE, JOHN R.</b> English	<b>PIKE, KARI A.</b> Speech Communication
<b>NARET, SHIRLEY</b> Nursing, Associate Degree	<b>OLDENBURG, RANI K.</b> Biology	<b>PLISKA, JANINE K.</b> Anthropology
<b>NASH, ELIZABETH T.</b> Biology	<b>ORAYANI, CECILIA</b> Nursing, Associate Degree	<b>PODRESOV, AUDREY L.</b> Nursing, Associate Degree
<b>NDOUMNA, EMMANUEL</b> Mathematics, Statistics	<b>OSBORN, CAROLYN J.</b> Vocational Nursing	<b>POLO, CAROL M.</b> Reading, Writing & Reading Center
<b>NEAL, SHIRLEY E.</b> English as a Second Language	<b>OTTO, CARIE A.</b> Sociology	<b>POPE, LATANYA A.</b> Psychology
<b>NEDZA, ERIN</b> Anthropology	<b>OTWELL, CHARLES A.</b> Philosophy	<b>POSS, DAVID M.</b> Administration of Justice
	<b>OWENS, MICHAEL D.</b> Physical Education	<b>POSTON, CLARK</b> Business, Law

<b>POTO, CAROL C.</b> Physical Education	<b>ROBERTS, KAREN L.</b> Art	<b>SANCHEZ, ALEJANDRO</b> Art, Photography
<b>POTTS, GRETCHEN N.</b> Art	<b>ROBERTS, MARVIE P.</b> Communicative Disorder	<b>SANCHEZ, MELVIN A.</b> Philosophy
<b>PRICE, TIFFANY</b> Anatomy, Biology	<b>ROBERTSON, J. SCOTT</b> Administration of Justice	<b>SANCHEZ, VICTORIA</b> Photography
<b>PRZYTULSKI, ROGER J.</b> Music	<b>ROBISON, JEAN L.</b> Art	<b>SANDHU, SUPREA K.</b> Economics
<b>PUGLISI, ROBERT</b> English as a Second Language	<b>RODRIGUEZ, ANNA M.</b> English as a Second Language	<b>SANTOSTEFANO, MICHELA</b> Italian
<b>QUATRO, AVERY L.</b> English as a Second Language	<b>RODRIGUEZ, EMILIANO</b> Music	<b>SAPOSNEK, LLOYD E.</b> Human Services/Social Work, DSPS
<b>QUEEN-FUENTES, DENISE D.</b> Computer Applications & Office Technology, CAOTT	<b>ROEMER, CAROL K.</b> Art	<b>SARGENT, MARK E.</b> Philosophy
<b>QUINONEZ, VERONICA S.</b> Extended Opportunity Program/Services	<b>ROESSLER, MARK F.</b> Political Science	<b>SAYED, SAFOUH</b> Mathematics, MSC, MDSC
<b>RAAGAS QUARM, LISA F.</b> Child Development	<b>ROGERS, WELLINGTON S.</b> Physical Education	<b>SAYED, SAFWAN A.</b> Mathematics
<b>RAGLAND, FRANCINE L.</b> Child Development	<b>ROMITO, SUSAN J.</b> English as a Second Language	<b>SAYLOR, PATRICIA R.</b> English
<b>RAHNAVARD, MOHAMMAD</b> Mathematics, Statistics	<b>ROSILLO, ZOILA M.</b> Computer Applications & Office Technology	<b>SCHAPPELL, DONNA J.</b> History
<b>RAMI, KIRAN</b> English as a Second Language	<b>ROSS, PATRICK S.</b> Aviation Maintenance	<b>SCHAUWEKER, JOHN</b> Computer & Business Info
<b>RAMIREZ JR., FRANK</b> Carpentry	<b>RUBOTTOM, JENESE M.</b> Nursing	<b>SCHENDEL, KELLY R.</b> English
<b>RAMIREZ, PHILLIP</b> Japanese	<b>RUDOLPH, JOAN E.</b> CBIS, COMIS	<b>SCHROEDER JR., ARNOLD L.</b> Mathematics
<b>RASMUSSEN, JOSEPH E.</b> Philosophy	<b>RUJANAWECH, GORDON</b> English	<b>SCHUMACHER, HOLLY V.</b> Counseling
<b>RAVINDHRAN, KS</b> Mathematics	<b>RYAN, MUTSUNO S.</b> Mathematics, MSC	<b>SEARS, JENNIFER N.</b> Physical Education
<b>REEVES, SEAN</b> Physical Education	<b>S-BEAURECUEIL, C.S.</b> French	<b>SEATON, SHARYN L.</b> History
<b>RENO, ANDREW B.</b> Emergency Medical Technician	<b>SABHA, FAYRUZ</b> English as a Second Language	<b>SELIGMAN, COURTNEY E.</b> Astronomy
<b>RENTERIA, DELIA</b> Spanish	<b>SABOL, CAROLINE M.</b> Mathematics, MSC	<b>SERR, RUSSELL A.</b> Physical Education
<b>RENTERIA, HECTOR</b> History & Political Science	<b>SADATMAND, KAMAL AL DIN</b> Mathematics, Statistics	<b>SHERNELL-BANKS, DEATRICE.</b> Sociology
<b>RICE, JUDITH A.</b> Health Education	<b>SADIS, IRA</b> English as a Second Language	<b>SHERTICK, RITA L.</b> Nursing, Associate Degree
<b>RICHARD, BRIGITTE B.</b> Physical Education	<b>SAGE, SHARON</b> Speech Communication	<b>SHIM, CASEY N.</b> Multidisciplinary Success Center (PCC)
<b>RICHTER, OTTO G.</b> Astronomy	<b>SAMANIEGO, KIMBERLY D.</b> English as a Second Language	<b>SHISHIM, LESLI S.</b> English as a Second Language
<b>RIOJAS, VINCENT L.</b> English as a Second Language	<b>SAMEL, KOLAP S.</b> Library	<b>SIMMONS, JAMES M.</b> Music
<b>RIOS-ELLIS, ENRIQUE</b> Music	<b>SAMMUT, NOREEN A.</b> Nursing, Associate Degree	<b>SIMONS, NICOLE M.</b> Speech Communication
<b>RIPLEY, DENISE B.</b> Physical Education, Adapted	<b>SAMSON, PHILLIP C.</b> Technology	

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<b>SIMS, HIRAM C.</b> English	<b>STAHL, CHRISTINE</b> Theater, Dance & Film	<b>TERAN, LOUIE A.</b> Music
<b>SINGH, PADAM J.</b> Mathematics	<b>STEELE, DONETTE A.</b> Human Services/Social Work	<b>TERAOKA, ADAM Z.</b> Art
<b>SJOBORG, ERIC</b> Political Science	<b>STEEFENS, LEA</b> Music	<b>TERRAZAS, JUAN</b> Electricity
<b>SKARR, SUZAN K.</b> Art, Photography	<b>STEINBERG, MICHAEL V.</b> Mathematics, Engineering	<b>TERRY, LADD J.</b> Creative Arts
<b>SKINNER, DAMON</b> Sheet Metal	<b>STEPAN, ELIZABETH J.</b> Financial Aid	<b>THARP, LOUIS B. JR.</b> Philosophy
<b>SKORHEIM, SUZANNE J.</b> Floral Design	<b>STERN, VALERIE M.</b> Music	<b>THOMAS, NOAH S.</b> Art
<b>SLEDER, KIM</b> Health Education	<b>STEVENS, JASON A.</b> CAOTC	<b>THOMAS-SPIEGEL, JOAN K.</b> Psychology
<b>SMEDING, JEFFREY J.</b> Photography	<b>STEWART, DONNA M.</b> English	<b>TIM, ROATANA C.</b> Music
<b>SMITH III, CHARLES A.</b> CBIS, COMIS	<b>STONE, CATHY E.</b> Art	<b>TINGLEY, MICHAEL J.</b> Diesel Mechanics
<b>SMITH, DOUGLAS A.</b> German	<b>STONE, LYLE D.</b> Music	<b>TOICH, SOPHARY</b> Nursing, Associate Degree
<b>SMITH, JAMES B.</b> Public Administration	<b>STORER, KEITH J.</b> English Reading & Writing Center	<b>TOKUSATO, DANNY M.</b> Psychology
<b>SMITH, JAYNE M.</b> Nursing, Associate Degree	<b>STREETZ, EVA</b> Nursing, Associate Degree	<b>TOLHURST, THOMAS</b> Photography
<b>SMITH, NICOLAS G.</b> Speech	<b>STRICKLAND, TRISHA</b> Fashion	<b>TOTORP, RANDY S.</b> Physical Education
<b>SMITH, SEAN</b> History	<b>STROMQUIST, ANNIE</b> Art	<b>TRAN, LE V.</b> Mathematics
<b>SMITH, STACEY J.</b> Child Development	<b>SULE, MICK L</b> Mathematics, MSC, MDSC	<b>TRAN, TAMMIE M.</b> Vietnamese
<b>SMITH, WARD G.</b> Library	<b>SUN, JOSEPH A.</b> Allied Health	<b>TRAN, TAMMY</b> Nursing, Associate Degree
<b>SMURTHWAITE, LORI F.</b> Reading & Writing Center	<b>SUN, YICUN E.</b> Dance	<b>TRAPP, ELIZABETH B.</b> Spanish
<b>SORENSEN, BARBARA.</b> Theatre Arts	<b>SVAY, TEPMORA</b> Multidisciplinary Success Center, Career Tech Success Center	<b>TRICKETT, DAWN L.</b> Speech Communication
<b>SORG, DARON L.</b> Fashion Design	<b>TAKAHASHI, YUKIKO</b> Japan	<b>TRIESCH, COLLEEN R.</b> Child Development
<b>SOUJOL, KATIA C.</b> Culinary Arts	<b>TAKAMINE, ERIC</b> English as a Second Language	<b>TROEAK JR, WILLIAM J.</b> Technology
<b>SPANGLER, PAMELA</b> Creative Arts, Music	<b>TAMER, NORMA E.</b> French	<b>TSENG, KELLY</b> Mathematics
<b>SPANU, LUISA</b> Italian	<b>TATUM, RONALD</b> Physical Education	<b>TUCCIARONE, JOSEPH D.</b> Mathematics, MSC
<b>SPECTOR, STERLING R.</b> Philosophy	<b>TAYLOR, JAMES H.</b> Real Estate	<b>TUCKER, JAZMINE S.</b> English as a Second Language
<b>SPENCE, ROBIN S.</b> History	<b>TENG, MARIA N.</b> Mathematics	<b>TURCIOS, ANA S.</b> Workforce Development
<b>SPRADLIN, NANCY</b> English as a Second Language	<b>TENNESEN, MARGARET</b> Art	<b>TURNBALL, LARA D.</b> Health Education
<b>ST. CLAIR, KEVIN S.</b> Music		<b>TURNER, EVERETT J.</b> Financial Aid

## *Part-Time Faculty*

---

- URIBE, LORENZO J.**  
Administration of Justice
- VANCE, KELLI**  
Art
- VARELLAS, BARBARA A.**  
Music
- VELEZ, ALFREDO**  
Spanish
- VELEZ, DAWN M.**  
Child Development
- VERBRYCK, LAURA**  
Drafting & Mechanical Design
- VERONE, TERRI L.**  
Food & Nutrition
- VINCI, SARAH G.**  
Art
- VISSER, LISA M.**  
Vocational Nursing, Nursing  
Associate Degree
- VIVIAN, SIGRID P.**  
English as a Second Language
- VOGEL, KAREN**  
Library
- VOKOUN, KATHLEEN M.**  
Child Development
- WAGNER, GARY**  
Radio & Television
- WALCZAK, KATHARINE L.**  
Career Tech Success Center,  
MDSC
- WALKER, STEPHEN L.**  
Accounting
- WALLACH, MARK D.**  
Psychology
- WALLECH, JANET N.**  
Biology
- WALSH, RUTHE L.**  
Food & Nutrition
- WALTERS, STACI**  
Theatre Arts
- WAN, THEODORE**  
English as a Second Language
- WANG, HSI CHING**  
Mathematics
- WARD, A. JUDITH**  
Physical Education
- WARKEN, THOMAS C.**  
English
- WATANABE, CATHERINE**  
Nursing, Associate Degree
- WATTS, JOHN T.**  
Administration of Justice
- WAWRZYNSKI, PAUL A.**  
Emergency Medical Technology
- WEBB, C. TRAVIS**  
Multidisciplinary Success Center,  
Career Tech Success Center
- WEISBERG, ALESSIA**  
Italian
- WEISS, ELIZABETH**  
Athletics
- WELLER, KAM**  
Physical Education
- WELLS, SCOTT J.**  
Economics
- WEST, BARBARA**  
English
- WESTERKAMP, ROBIN M.**  
Interior Design
- WHITE, JERILYN**  
Child Development
- WHITEHOUSE-CAPUANO,  
NATALIE J.**  
Health Education
- WIEGAND, ROBERT H.**  
Library
- WILKINSON, KIMBERLY D.**  
Theater, Dance & Film
- WILKINSON, RICHARD A.**  
History
- WILLIAMS, CURTIS J.**  
Geology
- WILLIAMS, SHERYL R.**  
English
- WILSON, RICHARD C.**  
Human Services/Social Work
- WILSON, WILLIAM BRAD**  
Fire Science
- WINCHELL, JILL E.**  
Music
- WINIARSKI, CATHERINE E.**  
Writing/Reading Center
- WITKIN, LEONARD**  
Mathematics
- WOOD, SUZANNE**  
Library
- WRANIC, ANGELA**  
Environmental Science,  
Geography, Physical
- WRIGHT, FRIEDA L.**  
Vocational Nursing
- WRIGHT, JEANNE E.**  
Journalism
- WURTZ, JEFFREY L.**  
Accounting
- WYATT, ROGER, W.**  
Multidisciplinary Success Center
- WYNNE, PAUL R.**  
Art
- WYSZPOLSKI, JON J.**  
Computer Applications & Office  
Technology
- YANG, RUIXUE**  
English as a Second Language
- YEMUT, EMAD B.**  
Mathematics
- YSAIS, MELISSA S.**  
Child Development
- ZAMOYSKA, CELINE C.**  
English as a Second Language
- ZAMPELLI, SHERI O.**  
Human Services/Social Work
- ZHU, MINGI**  
Chinese
- ZUNIGA, LIZBETH R.**  
Computer Applications & Office  
Technology



**ABAIR, RUTH C.**  
Career Development Center  
Coordinator

**ABE, ROBERT Y.**  
User Support Technician

**AGUERO, JOSE E.**  
Custodian

**AGUERO, LUZ L.**  
Custodian

**AGUILAR, MAYRA**  
Multimedia Services Tech

**AJA, MARY E.**  
Certified Athletic Trainer

**ALARCON, PETER**  
Custodian

**ALVARADO, MONICA B.**  
Child Development Center  
Associate Teacher

**ALVAREZ, DARA**  
Financial Aid Specialist

**ALVAREZ, LISBETH**  
ESL Services Specialist

**ALVIAL, LEFIA J.**  
Matriculation Aide

**AMADOR, RUBEN E.**  
Library Systems Technician

**ANDERSON, AARON**  
Custodian

**ANDRADE, ELIZABETH**  
Admissions & Tech I

**ARCHILA, FABIOLA**  
Lead Library Technician

**ARRELANES, CESAR R.**  
Int'l Trade Program Manager

**ARRIGO, IRENE E.**  
Registrar

**ASTON, STEVEN W.**  
Performing Arts Production  
Manager

**ATWOOD, KATHIE A.**  
Academic Administrative  
Assistant

**AVILA, JASON S.**  
Financial Aid Specialist

**AWE, FRANCES P.**  
Performance Accompanist-  
Dance

**AXUP, PAMELA S.**  
Human Resources Manager,  
Classified

**AZEVEDO, PAULO H.**  
Grounds Maintenance Worker

**BAKER, CHRISTOPHER R.**  
Grounds Maintenance Worker

**BAKER, CINDY J.**  
Accounting Supervisor

**BAKER, JANE E.**  
Business Systems Analyst III

**BAKKEN, SANDRA L.**  
Instructional Assistant

**BALDWIN, FRANCINE D.**  
Accountant

**BANDYOPADHYAY, KOMAL**  
Business Systems Analyst IV

**BANGS, DIANE C.**  
Human Resources Manager,  
Academic

**BARATIE, MYRIAN A.**  
Records Specialist

**BARBER, COLLEEN T.**  
Sr. Administrative Assistant

**BARNES-GREEN, ADRIENNE**  
Office Assistant

**BARNUM, ALBERT D.**  
Custodian

**BARRY, ANTIONETTE M.**  
Administrative Assistant

**BECERRA, ROSIO**  
Student Leadership Advisor

**BEJARANO LOCASCIO,  
TRACY L.**  
Sr. Administrative Assistant

**BERGEN, PATRICIA J.**  
Work Experience Coordinator

**BERRY, JANICE L.**  
Executive Assistant

**BERRY, MARSHALL**  
Custodial Supervisor I

**BIRDWELL, JILL G.**  
Administrative Assistant

**BIRONG, MICHAEL J.**  
Instructional Lab Support Tech

**BLACK, KATHLEEN M.**  
Child Development Center  
Teacher

**BLINCOE, DANIEL J.**  
Senior Locksmith

**BOLANOS, ANGEL L.**  
Custodian

**BONILLA, JOSE M.**  
Custodian

**BORK, JEAN M.**  
Project Manager, Nursing Grant

**BOWERS, ALISON**  
Learning Resources Center  
Supervisor

**BOWERS, SARAH**  
Accounting Technician II

**BOWSER JR, CLYDE C.**  
Custodian

**BOYLE, DEBORAH L.**  
EOPS Program Specialist

**BRACKMAN, PAMELA A.**  
Admissions & Records Tech II

**BRETON, JOANNE W.**  
Schedule Specialist

**BRETT, LINDA S**  
Administrative Assistant

**BRINKER, ROSEMARY A.**  
Administrative Assistant

**BROOKS, ARLEATHA**  
Financial Aid Program Assistant

**BROOKS, CAREY V.**  
Custodian

**BROWN, ALLISON**  
Disability Support Services  
Specialist

**BROWN, CYNTHIA J.**  
Office Assistant

**BROWN, MICHELE M.**  
Sr. Administrative Assistant

**BROWN, SHIRLEY M.**  
Administrative Assistant

**BUHAIN, ALLAN E.**  
Warehouse Worker

**BUI, CHAU M.**  
Technical Support Specialist

**BURKE, MICHAEL J.**  
Facilities Maintenance Manager

**BURTON, SOLEDAD**  
Accounting Technician II

**BUTCHER, JOHN E.**  
Grounds Maintenance Worker

**CAMPBELL, ELLEN M.**  
Grant Assistant II, ERD

**CAMPBELL, LARRY E.**  
Custodian

**CANNATA, ELIZABETH A.**  
Switchboard Operator

**CANNON, DIANE**  
Business Systems Analyst II

**CAO, CAMTU**  
Library Technician II

**CAPITULO, NORLYN B.**  
Human Resources Systems Tech

**CAPONE, NANCY**  
Senior Buyer

**CARPIO, RAUL**  
ESL Services Specialist

**CARR, JOAN M.**  
Payroll & Benefits Manager

**CARRILLO, JOANNA M.**  
Instructional Aide- Stud Succ Ctr

**CARROLL, SEAN W.**  
Multimedia Services Supervisor

## *Classified Staff*

---

<b>CARTER, JAN P.</b> Health Services Technician	<b>CROSS, KEVIN R.</b> Accounting Tech I	<b>DOSS, JOHN L.</b> Music Radio/TV Equipment Technician
<b>CASSAR, TINA M.</b> Nurse	<b>CROWDER, CYNTHIA A.</b> Instructional Lab Coordinator	<b>DOVALIS II, DEMETRE M.</b> Instructional Assistant
<b>CASTAGNOLA, JANET M.</b> Office Assistant	<b>CRUZ, JAIMARIE T.</b> Administrative Assistant	<b>DOYLE, MARY M.</b> Custodian
<b>CASTRO, ALEXANDER</b> Custodian	<b>CULPEPPER, AARON D.</b> Custodian	<b>DUARTE, DIANE L.</b> Grants Sr. Acctg. Tech, ERD
<b>CHAN, HO C.</b> Custodian	<b>CURTIS, DANIEL W.</b> Multimedia Services Technician	<b>DURAN Jr., CONRRADO S.</b> Senior Accounting Tech
<b>CHAO, JULIE</b> Senior Accounting Technician	<b>CYR, ANTHONY JR.</b> Custodian	<b>DURAN, HELEN M.</b> Human Resources Technician
<b>CHAO, SEM</b> Budget Officer	<b>CYR, MICHAEL A.</b> Custodian	<b>DURAN, SUSANA</b> Financial Aid Specialist
<b>CHAVEZ, ERIKA M.</b> Instructional Aide- Stud Succ Ctr	<b>DAMASO, ROMI FRANCESCA</b> Administrative Assistant	<b>EACH, KATHRYN S.</b> Academic Administrative Assistant
<b>CHAVEZ, LARRY</b> College Center Attendant	<b>DANG, WILSON K.</b> Applications Dev Analyst II	<b>ECKMAN, JONATHAN E.</b> Custodial Supervisor II
<b>CHESTNUT, CARMEN L.</b> Web Developer II	<b>DANIEL, MICHAEL S.</b> SBDC Client Supervisor	<b>EDMUNDS, LISA A.</b> Sr. Office Assistant
<b>CHIT UYS, ROMADA</b> Matriculation Aide	<b>DANIELS, DOUGLAS B.</b> Science Lab Equipment Tech	<b>ELGUIRA, MARIA T.</b> CalWorks Program Manager
<b>CHONG, KENTON D.</b> Custodian	<b>DANIELS, JULIE S.</b> Academic Administrative Assistant	<b>ENGEL, ANNE E.</b> Sr. Technical Support Specialist
<b>CHU, TANG P.</b> Applications Dev Analyst II	<b>DAVIS, JOHN Q.</b> Writing & Reading Center Lab Coordinator	<b>EPHREM, MEDHANIE</b> Energy Management Coordinator
<b>CHUKWUDIRE, HURTICINE J.</b> Administrative Assistant	<b>DAVIS, LONDA S.</b> EOPS Program Assistant I	<b>ERVIN, KIMBERLY M.</b> FKCE Education Specialist
<b>CLARK, TAMMY</b> Custodian	<b>DAVIS, PATRICIA M.</b> Deputy Director, Finance & Accounting	<b>ESLAVA, MARGARET E.</b> Child Development Center Teacher
<b>CLAY, KAREN E.</b> Child Development Center Associate Teacher	<b>DAVIS, TAMI L.</b> Instructional Assistant	<b>ESOLDO, BERTHA P.</b> Administrative Assistant
<b>CLEMONS-HARDEN, LaTONYUA V.</b> Senior Accounting Tech	<b>De SANTIAGO, DARIO JR.</b> Studio Lab Assistant	<b>ESPARZA, VALERIA M.</b> Instructional Aide- Stud Succ Ctr
<b>CLEVELAND, SANDRA D.</b> Instructional Assistant	<b>De La RAMA, CURIE C.</b> Academic Administrative Assistant	<b>ESTACIO, RICHARD R.</b> Lead Custodian
<b>CLEVERINGA, TRAVIS M</b> Library Assistant	<b>DeANDA, MONICA</b> Health Services Technician	<b>ESTACIO, RONALD J.</b> Senior Warehouse Worker
<b>COATS, DONNA R.</b> Administrative Assistant	<b>DELGADO, MARIA N.</b> Int'l Student Program Adm. Tech	<b>EVANS, RICKY L.</b> Grounds Maintenance Worker
<b>COMPIAN, JOHNNY</b> Skilled Maintenance Worker	<b>DEVERA, CHARMINE</b> Library Assistant	<b>FALCON, JANET</b> Academic Administrative Assistant
<b>COMPIAN, LAURA L.</b> Academic Administrative Assistant	<b>DIXON, MARY E.</b> Office Assistant	<b>FAMA, JAY S.</b> Records Specialist
<b>CONNORS, TAMMY J.</b> Accounting Tech I	<b>DOMINGUEZ, SEAN R.</b> Instructional Assistant	<b>FAN, CICY</b> Administrative Assistant
<b>COOK, RaSHANDA</b> Child Development Center Teacher	<b>DOMINGUEZ, SUNDEE K.</b> Math Lab Coordinator	<b>FEENSTRA, DARREN J.</b> Fleet & Equipment Mechanic
<b>COSTA, ALTA M.</b> Sr. Administrative Assistant	<b>DORFMAN, ANDRIUS S.</b> Sr. PeopleSoft DBA/Sys Manager	<b>FENDERSON, MARIE E.</b> Sr. Office Assistant
	<b>DORSEY, CHRISTOPHER J.</b> Business Systems Analyst III	

**FERNANDEZ, MONIQUE**  
Curriculum Database Specialist

**FERNANDEZ, YOLANDA C.**  
Administrative Assistant

**FINLEY, BRENDA J.**  
Instructional Toolroom  
Maintenance Mechanic

**FITZSGERALD, JAMES M.**  
Irrigation & Grounds  
Maintenance Tech

**FLORES, LEAH N.**  
Accounting Technician II

**FLOWERS, JIMMIE R.**  
Equipment Technician

**FLOYD, JONATHAN G.**  
Deputy Director, Plan & Constr.

**FOOT, HAROLD**  
Instructional Lab Coordinator

**FRANCE, NEIL A.**  
Photo Lab Technician

**FREDERICK, VERONICA M.**  
Admissions & Records Tech II

**FREIBURGER, STEVEN**  
Instructional Lab Support Tech

**FUENTES, EFRAIN**  
Instructional Aide, Arch & Mech

**GAFFNER, CAROL A.**  
Reading Program Specialist

**GAGNE, COLLEEN M.**  
Multimedia Services Supervisor

**GAITAN, SHARONNAC**  
Cashier

**GALARZA, DIANA**  
Multimedia Services Technician

**GALVAN, KAREN**  
Instructional Assistant

**GALVAN, STEPHANIE K.**  
Library Technician II

**GARBER, MARK D.**  
HVAC Mechanic

**GARCIA, ALFRED J.**  
Grounds & Transportation  
Supervisor

**GARCIA, CLAUDIA N.**  
FKCE Program Manager

**GARCIA, DEBRA T.**  
Career Develop Center Coord

**GARCIA, GUILLERMO A.**  
Outreach & Recruitment  
Specialist

**GARCIA, KELLY A.**  
Sr. Administrative Assistant

**GARCIA, KIMBERLY L.**  
Matriculation Aide

**GARCIA, PEDRO**  
Custodial Supervisor I

**GARCIA, ROBERT**  
Director, Public & media  
Relations

**GARCIA, SYLVIA**  
Administrative Assistant

**GARDNER, ROBERT E.**  
Admissions & Records Tech II

**GARNER, CARL M.**  
DSPS Adaptive Computing  
Specialist

**GARRISON, PAMELA**  
Administrative Assistant

**GARY, STEPHEN S.**  
Custodian

**GIBBINS, ANITA L.**  
Program Director, Men's/Women  
Resource Center

**GILMORE, BRENT J.**  
Business Process Support  
Supervisor

**GILPATRICK, DANIEL S.**  
Admission & Records Tech I

**GIRGIS, NASSEF I.**  
Int'l Students Program Manager

**GLOVER, CHERYL M.**  
Curriculum/Schedule Technician

**GLOVER, CHRISTOPHER S.**  
Tutorial Program Coordinator

**GOLDSMITH, LEWIS W.**  
Painter

**GOLDSTEIN, TERRI L.**  
Director, Growth &  
Opportunities

**GOMEZ, GRISELDA**  
Admissions & Records Tech I

**GONZALES, GLORIA**  
Sr. Office Assistant

**GONZALEZ-WILSON, GLORIA**  
Payroll Technician

**GRASS, JANICE B.**  
Grant Assistant III, ERD

**GREENWOOD, CHRISTOPHER**  
Multimedia Services Technician

**GUIDAS, MARK C.**  
Deputy Director, NW Services/  
Tech Support

**GUSTIN, PHILIP J.**  
Locksmith

**GUTIERREZ, DOROTHY J.**  
Financial Aid Advisor

**GUTIERREZ, ERICKA O.**  
Financial Aid Specialist

**GUTIERREZ, ROSA MARIA**  
Matriculation Aide

**GUTIERREZ, STACEY M.**  
Staff Development Coordinator

**HA, ROBERT V.**  
Instructional Assistant I

**HALAWANJI, ROLA F.**  
Environmental Programs  
Manager

**HALL, STEVEN P.**  
Stadium Maintenance Technician

**HAMILTON, THOMAS E.**  
Voc Instr. Tech-Cabinetry/Carp

**HANKS, CYNTHIA**  
Dep. Dir, Acad Comp/Multi Svcs

**HANN, AUDREY**  
Admissions & Records Tech I

**HANN, JACKIE B.**  
Board Secretary

**HARADA, KAREN M.**  
Executive Assistant

**HARRIS, RICARDO B.**  
Warehouse/Logistics Supervisor

**HARVESTON, RANDY G.**  
Lead Library Technician

**HARVEY, BRIAN P.**  
Mail Services Worker

**HASAN, MUMTAZ**  
Life Science Lab Specialist

**HASTIE, BRIAN M.**  
Voc Instr. Tech-Horticulture

**HAUSE, PATRICIA A.**  
Administrative Assistant

**HAYES, BRENDAN J.**  
Manager, Environ Health/Safety  
Services

**HEBER, LESLIE A.**  
Educational Technologist II

**HEFFERN, TIMOTHY J.**  
Technical Support Specialist

**HEISERMAN, BETTY J.**  
Executive Assistant

**HELDBERG, FREDRICK W.**  
Voc Instr. Tech- Elect/Electron

**HELLER, KEVIN A.**  
Custodian

**HENRY, ROBERT P.**  
Photo Laboratory Assistant

**HERNANDEZ ALCALA, JOSE**  
Custodian

**HERNANDEZ, ALEJANDRO**  
Custodian

**HERNANDEZ, ISRAEL**  
Studio Lab Assistant

**HERNANDEZ, LYNN A.**  
Graphic Design Specialist

## Classified Staff

---

<b>HERNANDEZ, MARIA B.</b> Instructional Aide- Stud Succ Ctr	<b>KALIL, JOHN P.</b> SBDC Operations Manager	<b>LEON, CYDNEY M.</b> Executive Assistant
<b>HERRERA, JUAN J.</b> Custodian	<b>KEARNEY, KEVIN M.</b> Performance Accompanist	<b>LERCH, VICKI A.</b> Sr. Administrative Assistant
<b>HICKS, PATRICIA A.</b> Locker Room Attendant	<b>KECKEISEN, DEBORAH C.</b> Senior Accountant	<b>LESPRON, TAMMY J.</b> EOPS Program Assistant I
<b>HICKS, PATRICIA L.</b> Lead Cashier	<b>KEEFE, ELENA M.</b> Executive Assistant	<b>LIEBRECHT, CATHERINE T.</b> Admissions & Records Tech II
<b>HIEMSTRA, VICTORIA D.</b> Matriculation Aide	<b>KEMPF, RACHEL L.</b> Cashier	<b>LINCOLN, TAMARA N.</b> Instructional Aide- Stud Succ Ctr
<b>HINDMAN, EILEEN MAE D.</b> Payroll Technician	<b>KHAN, BRITTANY S.</b> Accountant	<b>LOPEZ, WENDI L.</b> Distance Learning Specialist II
<b>HIVELY, STUART E.</b> Voc Instr. Tech- Elect/Electron	<b>KHAT, MON</b> Accounting Tech II	<b>LOVELY, NICOLE E.</b> Admissions & Records Tech II
<b>HOANG, CALVIN T.</b> Web Developer I	<b>KHERADYAR, HABIB</b> Art Gallery Coordinator	<b>LOWER, LINDA D.</b> Sr. Administrative Assistant
<b>HORI, PATRICIA E.</b> Instructional Aide Life Science	<b>KHONG, NONG</b> Instructional Assistant	<b>LUDKA, MARY JO</b> Child Development Center Assoc Teacher
<b>HOYO, RENE</b> Instructional Associate	<b>KIEBLER, THOMAS</b> Voc Instr. Tech-Welding	<b>LUUGA, AUGUST</b> Applications Develop't Manager
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<b>JARVI, THOMAS J.</b> Grounds Maintenance Worker	<b>LANG, EDWARD</b> Lead Custodian	<b>MACINTOSH, BLAKE W.</b> Media Producer/Broadcast Engr.
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<b>McQUEEN, ROBERT D.</b> Custodian	<b>MONAUS, MARIE A.</b> Instructional Lab Coordinator	<b>OLSEN, SHARON A.</b> Accounting Tech I
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<b>MENDEZ, SUSANA</b> Equipment Technician	<b>MORALES, DEMETRIA</b> Sr. Office Assistant	<b>PALACIOS, SUZANA</b> Grant Assistant II, ERD
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<b>MEYER, JOHN R.</b> Parking Services Coordinator	<b>MRAVEC, MONIKA</b> Educational Technologist II	<b>PEREZ-FLORES, MARIA J.</b> Planning Analyst
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	<b>NAPOLILLO, ANTHONY W.</b> Custodian	<b>PHILLIPS JR., MALCOLM J.</b> Warehouse Delivery Driver

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**ROBINSON, STACEY L.**  
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## *Glossary of College Terminology*

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**ADMISSIONS AND RECORDS**-The office and staff that admits a student and certifies his/her legal record of college work; it also provides legal statistical data for the college.

**ADMINISTRATION**-Officials of the college who direct and supervise the activities of the institution.

**ASSOCIATE DEGREE (A.A. OR A.S.)**-A degree (Associate in Arts or Associate in Science) granted by a community college which recognizes a student's satisfactory completion of an organized program of study of at least 60 units.

**BACHELOR'S DEGREE (B.A.,A.B.,B.S.)**-A degree granted by a four-year college or university which recognizes a student's satisfactory completion of an organized program of study of 120 to 130 units.

**CERTIFICATE OF ACCOMPLISHMENT**-A certificate granted by a community college which recognizes a student's satisfactory completion of an organized program of vocational study of 16 to 45 units.

**COMMUNITY COLLEGE**-A two-year college offering a wide range of programs of study, many determined by local community need.

**COUNSELING**-Guidance provided by professional counselors in collegiate, vocational, social and personal matters.

**CREDIT BY EXAMINATION**-Course or unit credit granted for demonstrated proficiency in a given area.

**CREDIT/NO-CREDIT**-Completion of a course or program with credit, but no grade, granted.

**DEFICIENCY**-Grade Point Deficiency: whenever a student's grade point average is less than 2.0

**DEFICIENCY, SUBJECT**-whenever a student lacks a course or courses required for admission, graduation or transfer.

**ELECTIVE**-A course needed for graduation, but not a part of the major requirements.

**GENERAL EDUCATION REQUIREMENTS**-(also called Breadth Requirements) A group of courses selected from several divisions which are required for graduation.

**GRADE POINTS**-The numerical value of a college letter grade. A-4, B-3, C-2, D-1, others-0.

**GRADE POINT AVERAGE**-A measure of academic achievement used in decisions on probation, graduation and transfer; The G.P.A. is determined by dividing the total grade points by the number of attempted units.

**IGETC (Intersegmental General Education Transfer Curriculum)**-A listing of classes mutually agreeable to the three segments of California Higher Education as meeting the General Education requirements for transfer from the California Community College to either the California State University system universities or the campuses of the University of California.

**LOWER DIVISION**-Courses at the freshman and sophomore level of college.

**MAJOR**-A planned series of courses and activities selected by a student for special emphasis which are designed to teach certain skills and knowledge.

**MATRICULATION**-A process that brings the college and the student who enrolls for credit into an agreement for the purpose of realizing the student's educational objectives. The college provides an admissions process; orientation to the college and its programs; assessment and placement recommendations; advising and counseling; student follow-up; and research and evaluation.

**PETITION**-The process for entering closed classes. When a class is closed in registration, or more than one week has elapsed since the beginning of the class, students must get a petition card from the class instructor to be able to register for the class. The petition card will be required at registration for a student to successfully enroll in classes requiring a petition card. After registering, the class instructor will use the information on the student's registration computer receipt for enrollment information.

**PLACEMENT TEST** (given prior to admission)-used to determine the student's assignment to the most appropriate class level.

**PREREQUISITE**-A requirement that must be satisfied before enrolling in a particular (usually a previous) course, taking a test, acquiring sophomore standing or consent of department.

**PROBATION**-A trial period of one semester in which a student must improve his/her scholastic achievement.

**REGISTRATION**-The process of selecting and enrolling in classes.

**SCHEDULE OF CLASSES**-A booklet which lists the title, class section number, units, time, instructor and location of all classes offered in a semester.



**SEMESTER**-One-half of the academic year, usually 18 weeks. Long Beach City College, and many colleges and universities operate on the semester schedule consisting of a fall semester starting in August or September and the spring semester starting in January or February. There are summer sessions which are not considered semesters.

**TRANSCRIPT**-An official list of all courses taken at a college or university showing the final grade received for each course.

**TRANSFER COURSES**-Courses designed to match lower division courses of a four-year institution and for which credit may be transferred to that institution.

**UNIT**-The measure of college credit given a course, usually on the basis of one unit for each lecture hour per week or for every three laboratory hours per week.