

2020-2021 16

College Mission and Values

Mission

Long Beach City College is committed to providing equitable student learning and achievement, academic excellence, and workforce development by delivering high quality educational programs and support services to our diverse communities.

Values

Long Beach City College is:

Purposeful

The College provides students clear pathways and support to attain their career and educational goals.

Focused

The College embraces a long-term commitment to innovative student success.

• Nurturing

The College provides an environment in which students, faculty, and staff build relationships that are understanding and supportive.

• Connected

The College is recognized as integral to an

inclusive, vibrant, and prosperous local, regional, and global community.

Respectful

The College values and celebrates the exemplary contributions of faculty, staff, and its community partners in supporting students.

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*For the listing of LBCC employees, refer to the 2020-2021 LBCC Catalog or refer to the new online catalog, which will be available in the 2021-2022 academic year.

The Long Beach Community College District

Liberal Arts Campus

4901 East Carson Street, Long Beach, CA 90808 Ph: 562-938-4111

Pacific Coast Campus

105 East Pacific Coast Highway, Long Beach, CA 90806 Ph: 562-938-4111

www.LBCC.edu

President's Message

On behalf of our Board of Trustees, faculty, staff, and administrators, it is my great pleasure to welcome you to Long Beach City College. I am very excited to be serving you, our students, as your Interim Superintendent-President.

Learning and pursuing education has certainly changed since the Covid-19 pandemic initially closed our campuses in March 2020. But, one thing that hasn't changed is that our excellent programs and courses are taught by some of the best faculty members of any college, anywhere. And the pandemic has also caused our faculty and staff to think outside the box to meet our students' needs and to prepare them to meet the challenges of the 21st Century economy. For example, we still have a very active and vibrant Student Life that will help enrich your experience here at LBCC — albeit virtually. We have created chat hubs that make our staff virtually available to help you answer your questions about registration or financial aid.

Whether you are looking to transfer to a university, earn a degree, or earn a certificate, LBCC will help prepare you for success in all your career and life goals. For nearly 95 years, LBCC has been supporting our community and economy through the success of our graduates and alumni. We are so glad you have chosen to be part of that tradition.



Go Vikings!

Dr. Mike Muñoz Interim Superintendent-President Long Beach Community College District

Academic Senate Message

Welcome to Long Beach City College. The faculty is 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 fouryear 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. We all look forward to meeting you, talking with you, working with you, and learning with you. We are all here to support you in the pursuit of your academic and personal goals.

Jeri Florence Academic Senate President



Accreditations

Long Beach City College

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

Human Services Addiction Studies Program

The Human Services Addiction Studies program at LBCC is accredited by the California Association of Alcohol & Drug Educators, 5230 Clark Ave., Lakewood, CA 90702, 707-722-2331.

Associate Degree Nursing Program

The Associate Degree Nursing program has held accreditation from the Accreditation Commission for Education in Nursing (ACEN), formerly the NLN-AC, since 1966. ACEN, 3343 Peachtree Road N.E., Ste. 850, Atlanta, GA 30326, 404-975-5000, which is the primary national accreditation body for associate degree nursing programs. The program is also approved by the State of California Board of Registered Nursing (BRN).

Licensed Vocational Nurse to Registered Nurse Program

The Licensed Vocational Nurse to Registered Nurse program is fully accredited by the Accreditation Commission for Education in Nursing (ACEN) and approved by the State of California Board of Registered Nursing (BRN). ACEN, 3343 Peachtree Road N.E., Suite 850, Atlanta, GA 30326, 404-975-5000. BRN, 1747 N. Market Blvd., Ste. 150, Sacramento, CA 95834-1924, 916-322-3350.

Vocational Nursing Program

The Vocational Nursing Program is accredited by the Board of Vocational Nursing and Psychiatric Technicians

(BVNPT), 2535 Capitol Oaks Dr., Ste. 205, Sacramento, CA, 95833, 916-263-7800.

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 deadline for submission of information for this catalog.

Schedule of Classes

Before the beginning of each academic term, LBCC publishes a schedule of classes online indicating each course to be offered. Schedules are available on the college website at <u>www.lbcc.edu</u>. Changes in curriculum offerings or fees charged may occur after the schedule is published.

Rehabilitation Act of 1973:

Materials in Alternative Format

Section 508 of the Rehabilitation Act of 1973, as amended by Congress in 1998, requires agencies receiving federal funds to make their electronic and information technology (EIT) accessible to people with disabilities. In compliance, the Long Beach Community College District provides its catalog, instructional materials, and other college publications in alternative formats. Any individual who requires special assistance and would like materials in an alternative format should contact the Disabled Students Programs and Services Department at 562-938-4558 or 562-938-4833 (TDD). A Disabled Students Programs & Services Office is located on both the Liberal Arts Campus (LAC), at 4901 E. Carson St., Long Beach, 90808, and the Pacific Coast Campus (PCC), at 1305 E. Pacific Coast Highway, Long Beach, CA 90806.

Accuracy Statement

To report errors and omissions, make suggestions for better readability, or offer comments regarding this catalog, please email <u>catalog@lbcc.edu</u>.

2021-2022 Academic Calendar

Summer Sessions 2021

June 14	First five-week session begins
June 14	Six- and eight-week sessions begin
July 19	Second five-week session begins
Finals	All final exams are the last scheduled day of class

Fall Semester 2021

August 30	Fall classes begin
September 21	Flex Day – No classes
Finals	All final exams are the last scheduled day of class
December 18	Fall Semester ends
December 19 – January 2	Winter Recess

Winter Intersession 2022

January 3	Winter Intersession begins
Finals	All final exams are the last scheduled day of class
February 5	Winter Intersession ends

Spring Semester 2022

February 7	Spring classes begin
March 16	Flex Day – No classes
April 4-10	Spring Break – No classes
Finals	All final exams are the last scheduled day of class
June 8	Spring Semester ends
June 9	Commencement

Holidays (No classes are in session)

Labor Day
Veterans Day
Thanksgiving Holiday
King's Day observed
Lincoln's Day observed
Washington's Day observed
Memorial Day

*This calendar is subject to change.

The college offers many short-term classes starting at various times throughout the year. The Schedule of Classes contains specific dates, times, and procedures.



College History

For more than 90 years, Long Beach City College (LBCC) has prepared students for success in their future studies and careers. LBCC has grown from a single building into two dynamic campuses on more than 140 acres, with 25,000 students and 1,400 full- and part-time faculty and staff. The College offers state-of-the-art, technology-rich learning environments, a broad range of academic and career technical instructional programs, and economic and workforce development programs. Students can enroll in a diverse array of associate degree and certificate programs for transfer studies, career and technical education, and personal enrichment.

As one of the largest of the 115 community colleges in California, LBCC is governed by the five locally elected members of the Long Beach Community College District Board of Trustees. The district serves the cities of Long Beach, Signal Hill, Lakewood, and Avalon. LBCC was established in 1927 as Long Beach Junior College and founded at the current site of Woodrow Wilson High School. The original LBCC building was destroyed by the 1933 Long Beach earthquake. Classes were held outside and in tents at neighboring Recreation Park until 1935, when the college moved to the site of its present-day Liberal Arts Campus, at Carson Street and Clark Avenue.

From its earliest days, the College has established traditions that are alive today, such as the mascot, Ole, and team name, Vikings. Early athletic honors included championships in wrestling, baseball, men's and women's swimming, and men's basketball. The tradition of athletic excellence continues today: LBCC has earned 93 state championships, making the College one of the top California community colleges in athletics.

LBCC grew rapidly after World War II, adding the Pacific Coast Campus in 1949, which formerly housed Hamilton Junior High. In the 1970s, as a result of a new state law, the College separated from the Long Beach Unified School District and became the independent Long Beach Community College District with its own locally elected Board of Trustees. In 1987, LBCC acquired Veterans Memorial Stadium from the City of Long Beach. Today the stadium hosts LBCC and local high school football games as well as track meets, graduation ceremonies, concerts, commercial shoots, and the Long Beach Antique Market.

As computing technology grew in the 1980s, LBCC kept pace by acquiring new equipment for nearly every instructional program and revising its programs accordingly. Today, computer labs, multimedia "smart" classrooms, and a host of 21st century educational technology training programs allow for faculty to connect with students through course Learning Management System, social media, and online learning programs. In addition, LBCC supports faculty to embrace innovative teaching strategies to enhance student engagement and learning (e.g., blended teaching methods, flipped classrooms, self-paced and adaptive learning software, transformative pedagogy, hybrid and fully online courses, etc.).

Long Beach, Lakewood, Signal Hill, and Avalon voters approved the Measure E Bond in 2002 and its extension in 2008. Because of this overwhelming support, LBCC has been engaged in a 15-year, \$616-million modernization program to upgrade the Liberal Arts and Pacific Coast campuses. The College has celebrated the completion of dozens of new construction projects and building modernizations.

The building program is providing new facilities to support new programs, allowing LBCC to prepare its students to meet the changing demands of today's workplace both globally and locally.

More recently, voters approved Measure LB in 2016, providing an additional \$850 million to complete the multi-campus Facilities Master Plan. Aiming for completion in 2041, the comprehensive facilities upgrades will provide a contemporary, state-of-the-art learning environment for the region served by LBCC. Meanwhile, the LBCC Foundation continues to provide strong and ongoing support to the college through scholarships and grants, recognizing and celebrating alumni accomplishments through the Alumni Hall of Fame, reunions, anniversary celebrations, and more.

LBCC's nationally recognized economic and workforce development programs help support the local economy through the creation and retention of regional jobs. Economic development initiatives like the regional Small Business Development Center Network and the Goldman Sachs 10,000 Small Businesses program are helping small businesses and our local economy thrive. In addition, innovative programs like the Long Beach College Promise – a unique partnership with the Long Beach Unified School District, California State University, Long Beach, the City of Long Beach, and the Port of Long Beach – are helping more students succeed in college. The program has become a national model for communities looking to increase student success. LBCC has had many accomplishments to celebrate in its first nine decades and is well positioned to build on this tradition of success in serving its community for generations to come.

Senior Studies Program

The Senior Studies Program provides fee-based programs for adults. Classes are offered in world affairs, music, brain enhancement, and other areas, all designed for the active adult. Mini tours to museums and galleries are also sponsored by the center. The Senior Center is located at the Pacific Coast Campus in room QQ-122. For further information, call 562-938-3047.

Online Learning

Online Learning refers to three types of courses:

- Fully Online: a course that meets 100% online
- Hybrid: a course that meets partially in a classroom and partially online
- Web-Enhanced: a face-to-face course that meets 100% in a classroom yet also uses a Learning Management System

Online Learning courses are designed to be equivalent and comparable to their on-campus courses' versions in terms of quality, learning outcomes, special requirements, course fees, and credit. Students can enroll in these classes through the regular college registration process, whether by walk-in or by accessing the Viking Student System through the LBCC website. Online 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 a 24/7 online reference desk, resources, and electronic databases and catalog access. For more information, visit http://www.lbcc.edu/dl or call 562-938-4818.

LBCC offers two types of Online Learning courses:

 Online Courses: Online courses are offered entirely online and do not require students to be present on campus. Online courses are facilitated through remote access by using a personal computer, internet connection, and a valid e-mail address. Students can access these courses at home, at offcampus public facilities, or by using 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, and through embedded or streaming media.

- a. Asynchronous Online Class: There are no required meetings in real-time; no meeting day/times are listed in the schedule. All contact hours must be asynchronous. Asynchronous classes will be noted in the class schedule by the days and time being "Web" and the location being "Online."
- b. Synchronous Online Class: There are required meetings in real-time; meeting day/time patterns are in the schedule. Some instructors may use a combination of scheduled "real time" meetings (synchronous) and online work accessed on the students' chosen time (asynchronous meetings), but the required meetings are regularly scheduled and show in the class schedule.
- Hybrid Courses: Hybrid courses meet partially online and include some required on-campus meetings. The on-campus meetings may be regularly or irregularly scheduled. Students can access the online portion of

these courses at home, at off-campus public facilities, or by using the college's Academic Computing Centers to log on to their course website.

Student Technology Help Desk (STHD)

The Student Technology Help Desk (STHD) supports LBCC students in accessing and successfully using LBCC technology, including support for single sign-on passwords, Viking Portal, Canvas LMS, Office 365, and more. The STHD is staffed with knowledgeable and friendly student team members to provide peer guidance to all students. The STHD is available to support students via phone, email, chat, and in-person. To contact the STHD call 562-938-4250. To learn more about the STHD, including policies, areas of support, and overall mission, visit <u>www.lbcc.edu/sthd</u>.

Board of Trustees

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2021-2022 CATALOG

ADMISSIONS



Admissions Requirements

Who May Attend:

- High school graduates
 OR
- Persons in possession of a California high school proficiency certificate or GED OR
- Persons 18 years of age or older who can benefit from the instruction OR
- High school students who qualify for dual enrollment
 - OR
- International Students with a valid Visa

Applying to the College

All new, returning, and continuing students are encouraged to meet with a counselor each semester in order to review their academic progress before completing registration.

New and Former Students

New or former students need to apply. A new student is a person who has never attended Long Beach City College. A former student is a person who at one time attended LBCC but has not attended for one year or more and now wishes to return. All applications are completed through <u>www.lbcc.edu</u>. Applications are processed within 24 to 72 business hours. An email will be sent to the email account provided on the application with a Viking Student ID, login instructions, and residency status.

Continuing Students

A continuing student is a person who has attended LBCC within the previous year.

Admission and Enrollment of Special Admit Minors

Special Admit Minors are students enrolled in grades K-12, who have not earned high school diplomas, and who may benefit from advanced scholastic or career technical work.

High School Students

Through dual enrollment, LBCC offers high school/K-12 students the opportunity to accelerate their college and career pathways by earning college credit before completing high school. Dual enrollment provides opportunities for advanced academic or vocational work for high school students and is not intended as remedial or makeup work.

Students must be currently enrolled in a K-12 school and may enroll in up to 11 units each fall and spring semester or 5 units in winter and summer intersessions. A GPA of 2.0 or better at LBCC is required to continue as a dual enrollment student. Credit for a college course is awarded through a college transcript after the successful completion of a class. If the college course meets a high school graduation requirement, the high school may award high school credit after successful completion of the college course.

There are four different tracks for high school students who wish to enroll at LBCC:

- Individual Dual Enrollment is for high school students desiring to enroll at LBCC on their own and outside of a coordinated program between LBCC and the K-12 district/high school. Individual dual enrollment students may enroll in any available course if prerequisite requirements are met.
- Early College Pathways Partnership (ECPP) dual enrollment program is for high school students desiring to enroll at LBCC as part of a coordinated program between LBCC, Long Beach Unified School District, LearnLearn4Life Long Beach, and Lynwood Unified School District. ECPP students participate in specially-selected courses and student support services designed for college and career preparation.
- Early College at Browning provides Browning students the opportunity to earn high school and college credit for classes in the Culinary Arts and Hospitality pathways. Students who finish the entire program will earn a high school diploma while also completing an associate degree.
- High School Articulation Agreements
 Students from LBUSD, Bellflower Unified, and
 Centinela Valley Union High School may receive
 college credit by taking an articulated high school
 course and passing the credit by the examination
 process.

For more information on any of these programs, visit the LBCC Early College website at <u>www.lbcc.edu/earlycollege</u> or contact the Early College Initiatives team at 562-938-4741, <u>careerpathways@lbcc.edu</u> or visit room AA-109 (PCC).

International Students

Students who are not U.S. citizens must verify their immigration status at the time of registration. If classified as nonresident, these individuals must pay nonresident tuition. Foreign students who plan to enroll with a student visa (F-1, M-1) must have the international admission application fi les completed through the International Student Programs Department. No I-20 will be issued until all requirements are met. Contact the International Student Programs Department for more information at 562-938-4745 or visit www.lbcc.edu/internationalstudents.

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

Procedures for Application to School of Health and Science Programs

Health care programs may have limited enrollments due to the limited availability of clinical sites. These programs have separate admissions processes to ensure that students are selected in a fair and equitable manner. Admission to LBCC does not ensure 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 if they are not accepted. For information about applying to Allied Health Programs visit www.lbcc.edu/alliedhealth.

For information about applying to the Vocational or Associate Degree Nursing Programs visit <u>www.lbcc.edu/department-nursing</u>.

International Student Programs

Admission Procedures

LBCC 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.

The International Student Programs offer specialized support and immigration advising to F1 and M1 status students on campus, as well as assistance to prospective students from the moment of their initial application and throughout their study at LBCC until their graduation. All international student applications are accepted and processed by International Student Programs.

Procedures for Application to School of Health and Science Programs

Health care programs may have limited enrollments due to the limited availability of clinical sites. These programs have separate admissions processes to ensure that students are selected in a fair and equitable manner. Admission to LBCC does not ensure 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. For information about applying to Allied Health Programs visit www.lbcc.edu/alliedhealth.

For information about applying to the Vocational or Associate Degree Nursing Programs visit www.lbcc.edu/department-nursing.

<u>American Language and Culture</u> <u>Institute (ALCI) –</u> Intensive English Program

Admission Procedures

The American Language and Culture Institute (ALCI) offers noncredit courses providing students the opportunity to acquire or improve English language skills rapidly through intensive study enhanced by small class sizes and opportunities for cultural immersions. The ALCI enrolls adults 18 years and older, of all backgrounds, and all 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 offered in eight-week sessions:
- 1. Two sessions in the fall semester
- 2. Two sessions in the spring semester
- 3. One summer session

Whether students want to master English to complete an associate degree, transfer to a U.S. university, travel in English-speaking countries, or improve English language business and professional skills, the LBCC ALCI can help them to reach their goals. The ALCI is a great first step toward bridging over to LBCC's regular college program while having the college life experience. ALCI applicants do not need to submit proof of English proficiency.

For information about the availability of the ALCI program, please visit <u>https://www.lbcc.edu/alci</u> for updates.

Tuitions and Fees:

Tuition is \$1,800.00 Session additional fees include the following:

- 1. \$75.00 Cultural Enrichment Activities fee
- 2. \$20.00 Student ID card
- 3. \$30.00 Campus Parking Fee
- 4. \$40.00 Health Insurance Fee

International Student Admission to LBCC Academic or Certificate Programs

LBCC offers a wide range of university transfer programs, associate degrees, and technical education certificates. The International Academic Counselor will help students plan for, and reach, their educational goals. LBCC welcomes all international students who desire to grow, serve, and succeed in their academic and professional pursuits.

How to become an International Student at LBCC:

- 1. Apply online at apps.lbcc.edu/internationalsecure/ (International application for admission)
- Application fee of \$40 can be paid online at <u>www.lbcc.edu/post/international-student-</u> <u>application-fee</u> (non-refundable)

Applicants must adhere to application deadlines and submit all required documentation:

- 1. Proof of English Proficiency within two years. Accepted test scores include the following:
 - a. iTEP International English Test (Level 3.5)
 - b. PTE Pearson test of English Academic (44 score)

- c. TOEFL 57 (iBT)/490 (PBT)/163 (CBT) or higher
- d. ALI at CSULB Level 104
- e. ALI at SDSU Level 106
- f. IELTS (Level 5.5)
- g. LSI (Level 6)
- h. TOEIC (550 or higher)
- i. ELS (Level 109)
- j. STEP Eiken (Level 2A)
- k. UCI-DEC (Level 5)
- 2. Proof of Financial Support: A current original PDF signed and stamped bank statement or letter of financial sponsorship showing minimum amount required to cover academic and living expenses for at least one year of study at LBCC.
- 3. Academic Credentials and Transcripts:
 - a. Proof of High School Graduation (seniors under 18 years of age)
 - b. Official Sealed College/University transcripts (Must be in English)
- 4. Tuberculosis Test: Original PDF test result within a year from a hospital or doctor is required
- Personal Essay: Personal one-page essay explaining why the student wants to study at LBCC, discussing academic goals
- Copy of Passport: PDF copy of the information page from the passport showing full legal name in English and a picture. LBCC will use this version of the student's name to issue the I-20
- 7. Upload each required document through the online international application in PDF format with Certified English Translation

Tuition and Fees:

- International Student Tuition fee (Nonresident Enrollment fee).
- Other fees and expenses including student ID, health insurance, parking, housing, food, books, school supplies, and personal necessities.

Upon receiving a completed application, an international admissions advisor will review the file and inform the prospective student of the admissions decision. Students are required to attend the mandatory orientation for international students.

Once students have registered they are required to pay their registration fees immediately.

- As per immigration regulations and college policy, all international students are required to enroll in and complete 12 units each semester, except for summer and winter sessions.
- 2. All international students must purchase and maintain valid student health insurance from the authorized LBCC group vendor throughout their

enrollment at LBCC. This insurance may not be waived.

3. International students are encouraged to be actively involved in campus life and activities.

Contact ISP at 562-938-4745 or email international@lbcc.edu for questions regarding international student status.

Residence Requirements

All students are classified as either a resident of the State of California or a nonresident when applying for admission. A resident is a student who has lived in the state for more than one year before the beginning of a semester or term (EC 68017), based on the "Residency Determination Date" which is the day immediately preceding the opening of instruction. This definition applies to U.S. citizens, permanent residents, and persons holding certain visas that allow for residence.

A nonresident is a student who has not established residence in the State of California for one year as of the residency determination date. Persons who are 18 years of age or older establish residency in accordance with EC 68017 above. Adult residency begins after the 18th birthday.

Persons who are under 18 years of age establish residence in accordance with the above "resident" definition and the following: A minor child's residence is the home of the parent with whom the minor child lives. When the minor lives with neither parent, residence is that of the parent with whom the minor last lived. The minor may establish residence of his or her own when both parents are deceased and a legal guardian has not been appointed.

The residency of unmarried minors who have a living parent cannot be changed by their own acts, appointment of legal guardians, or relinquishment of a parent's right of control (EC 68062). Married minors may establish their own residence.

Exceptions apply under certain conditions to active members of the military and their dependents.

Noncitizen Students: Students with a "permanent resident" visa, refugee status, or amnesty approval may establish residency in accordance with the college's residence requirements. All visas must be examined by the college to determine residency status.

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New and returning students who feel they have been incorrectly classified in their resident status or continuing students who now meet the residence requirements must submit a residency appeal to the Enrollment Services Office. Residency appeals must be filed no more than two weeks after notification of the applicant's residency status. Continuing students must submit the residency appeal no later than the third week of the semester to meet the resident's requirements.

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 at both campuses.

Matriculation

Matriculation supports the transition of students into college by facilitating completion of entry services such as placements for course enrollment, orientation, counseling for educational planning, and referral to specialized student support service to assist students in making informed decisions about their educational goal and course of study.

New students are required to complete the following core services in order to receive priority registration: placement for course enrollment, orientation, and educational planning. Counselors will create an abbreviated education plan, informed by the students' chosen program of study (i.e. major). Students may complete this requirement by attending an educational planning workshop, or scheduling an appointment with a counselor. Subsequently, students should meet with a counselor to create a comprehensive educational plan that includes all requirements necessary to achieve their educational goal at LBCC. Deadlines apply for priority registration appointments.

A request form to be exempt from completing one or more core services is available on the matriculation website at <u>https://www.lbcc.edu/matriculation-office</u>. Exemption approval may also require that students provide justification for their requests.

College's Responsibility

In accordance with the Student Equity and Achievement Program, the college shall take steps to ensure that information regarding the matriculation requirements are accessible and available to all students during or prior to enrollment.

Student's Responsibility

All new non-exempt students must complete matriculation core services before enrolling. Students must identify a specific educational goal or major. Students must also demonstrate maintenance of progress toward an educational goal.

Components of Matriculation

The following components are required in order to be fully matriculated into the college:

- Application to the College
- Placement in English, math, reading, and English as a Second Language, as applicable
- Orientation to the college's programs and services
- Counseling for assistance with course selection and educational planning

Support services are also available to help students achieve their educational goals (see Component Exceptions section below)

Matriculation Exemptions

All students must participate in these components; unless granted an exemption.

Orientation, Placement and Counseling

Any student who believes that they are exempt from any of these components may appeal by fi ling a Matriculation Component Waiver form, which is available at <u>https://www.lbcc.edu/matriculation-office</u>.

These exemptions do not provide clearance for enrollment into specified English, math, reading, or ESL courses. The waiver will be reviewed by the Matriculation Office, and the student will be notified of the decision by email. Students exempted from a component are encouraged to complete the previously waived component in a future term.

College Assessment

With the exception of Chemistry and Nursing assessments, LBCC no longer administers course assessments. Rather, LBCC uses information that is gathered at the time of application, or through a high school transcript, to create placements for a student in English, reading, math, and ESL. High school data is valid for up to 10 years following the student's date of graduation from high school. In cases where high school information cannot be used to determine placements, the college will use other information provided by the student to create a placement.

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 Matriculation Office, the counseling department, or the respective academic department. The student may be required to provide justification for the appeal and will be notified of the appeal decision by email.

Component Exemptions

Students are exempt from components if they meet any of the following criteria:

- 1. Students who hold an associate or higher degree.
- 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 the following:
 - Performance or activity classes
 - Classes for advancement in their current job/ career update job skills
 - Community and Contract Education classes

Student Rights and Matriculation

A student may initiate a complaint of LBCC matriculation practices by filing a complaint form, which is available at the Matriculation Office. Complaints will be directed to the Dean of Student Equity, who is responsible for the investigation and resolution of such complaints. The dean will maintain a file on all formal complaints.

Enrollment Priorities and the California College Promise Grant (formerly the Board of Governors Fee Waiver or BOGW)

The purpose of establishing enrollment priorities is to support students endeavoring to reach their educational goals at LBCC by providing priority enrollment to groups of students with special needs or who are in continuing student status, as long as satisfactory academic progress is maintained.

Beginning in Fall 2018, the California College Promise Grant (formerly BOGW), will require satisfactory academic progress. All grades will be used to determine eligibility. Any combination of two consecutive fall and spring semesters of cumulative GPA below 2.0 or cumulative course completion of less than 50% may result in loss of the California College Promise Grant.

Priority and Enrollment Criteria and Conditions

All new and returning students not otherwise exempt, including those in any state-provided priority enrollment groups, must complete assessment and orientation and have an Electronic Student Educational Plan in order to receive a priority enrollment.

Students, including those in any state-provided priority enrollment groups except eligible current and former foster youth, are subject to loss of enrollment priority and loss of the California College Promise Grant if they are on any combination of progress or academic probation for two consecutive semesters.

Students, including those in any state-provided priority enrollment groups except eligible current and former foster youth, are subject to loss of enrollment priority for which they would ordinarily be eligible if they have earned 100 degree-applicable units.

Appeal for Enrollment Priority and Loss of California College Promise Grant (formerly BOGW)

Students may submit an appeal for loss of enrollment priority and loss of the California College Promise Grant to Enrollment Services at either campus. Appeal forms can be picked up in the Enrollment Services Offices or at https://www.lbcc.edu/admissions-and-records-forms.

Student Grievance Policy

LBCC is committed to resolving problems students may encounter while working within the guidelines and policies established by the state of California and the Board of Trustees. For specific information on both policy and process for student grievances, contact the area department chair or manager or the area dean where the grievance took place. If the complaint is one of abuse, it should be referred directly to Human Resources.

Complaints

Students with complaints, including but not limited to curriculum, class scheduling, faculty, or staff, should be referred to the area department chair or manager or the area dean and, if necessary, Human Resources. If the complaint is one of abuse, it should be referred directly to Human Resources.

Registration Procedures

Students are responsible for officially enrolling in classes. A student may not attend any class unless he or she is properly registered in that class. Registration may be done online or on a walk-in basis. See the Schedule of Classes for the appropriate semester for dates, times, and instructions for registration. Students must be officially enrolled prior to the census date. 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 for three times the amount of the check, plus the face value of the check.

Resident Enrollment Fees

A student classified as a California resident (see residence section) shall be required to pay an in-state enrollment fee of \$46 per unit. This rate is subject to change without notice as determined by the California legislature.

Nonresident Enrollment Fees

Students who have been classified as nonresidents (see residence section) shall be required to pay nonresident tuition at the rate of \$260.00 per unit plus the normal enrollment fee of \$37 per unit and a capital outlay surcharge of \$49 per unit, for a total of \$343.00 per unit. This rate is subject to change without notice.

Books, Supplies and Course Materials Fees

Students must purchase all books and the supplies required by instructors of the classes in which they enroll. If a class has a materials fee, this fee will be listed in the schedule of classes and must be paid during registration. The on-campus bookstores will sell new and used textbooks, in addition to other cost-saving options such as textbook rentals and digital e-textbooks when available and appropriate. Other required course materials and supplies will also be available for purchase at the campus stores.

College Services Card Fee

The College Services Card (CSC) is the official student identification card utilized by both LAC and PCC campuses at LBCC. The CSC is validated each semester by a current CSC sticker. While the CSC is optional, it is required to use the Viking Voyager shuttle. 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, the Viking Newspaper, intramural and recreational activities, clubs and organizations, KLCB/KCTY radio, accident insurance, and a number of other programs and activities supporting the students' extracurricular experience. The CSC sticker is issued by the Cashier's Office at LAC and PCC each semester for \$20 for fall and spring and \$13 for summer sessions. No fee is charged for winter sessions.

Student Health Fee

A health fee of \$20 for fall and spring and \$17 for summer and winter sessions will be charged upon registration, unless students meet one of the following exemptions:

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

Parking Fee

Students must purchase a parking permit to park on campus. The parking fee for automobiles or motorcycles is \$30 during the fall or spring semester. The fee for all students during summer and winter intersessions is \$20. Day permits are \$2.

Printing Fee

A printing fee will be charged for each page printed in the Academic Computing Centers and Library on campus. Students are welcome to save 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, damage to or loss of books or athletic equipment, student loan defaults, breakage of equipment, checks returned for insufficient funds, failure to meet attendance regulations for financial aid, or for any other reason, the college will deny further enrollment and refuse to release information to potential employers or other agencies until all indebtedness has been cleared.

<u>Refunds</u>

Students are eligible for a refund of fees only if they withdraw from classes prior to the last date to drop without a grade (course census date). See the Viking student system for refund deadlines for enrolled courses. LBCC 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.

A student's withdrawal date is as follows:

- 1. The date the student officially fi led a drop through the Admissions Office, or via online, or
- The student's last date of attendance at a documented academically related activity. LBCC does not offer 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 or transfer period, transfers may only be made between classes in the same academic discipline. Furthermore, transfers will only be allowed under the following conditions:

- Each class is of equal length and start in the same week; OR
- The class from which the transfer is being made is shorter than the new class and both start in the same week; OR

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 or Transfer Period

In order to receive a refund the student must drop the course prior to the last date to drop without a grade (course census date). To transfer enrollment fees or nonresident tuition from one class to another, students must officially withdraw after the last date to drop without a grade (course census date) and transfer within the same academic department provided that permission is granted by both instructors.

Enrollment fees, nonresident tuition, health fees, and materials fees will be automatically refunded to students who officially withdraw during the refund period. After this period, these fees 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 or transfer period defined above. After this period, no refunds will be issued. All requests for refunds must be accompanied by the College Services Card 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 in order for a refund to be issued. Parking fees will be refunded by check from the Cashier's Office via U.S. mail.

Appeal for Extenuating Circumstances Refund of Enrollment Fees

- The Enrollment Services Management Team shall consider all appeals for refunds of tuition and enrollment fees due to extenuating circumstances. Administrative Regulations 4020.3: 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.
- 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 portal, or in the Admissions and Records Office. Name changes must be completed inperson with legal documentation showing the new name. A photo ID 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

LBCC provides students with a wide variety of academic assistance and personal support, but it is up to each student to know when he or she needs help and to seek it out. It is the student's responsibility for staying informed and obeying campus rules, regulations, and policies that affect his or her academic standing as an LBCC 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 the student's responsibility. Students should consult this catalog, the college and school announcements, email, and the schedule of classes for the information they need and should watch for official announcements in the Viking Newspaper and on-campus bulletin boards.

Family Educational Rights and Privacy Act (FERPA)

All student records of LBCC 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 or her record and to control the release of this academic record.

- 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 the 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 by completing the appropriate form in the Admissions Office located in Enrollment Services. If the student has not filed this form, the college may release directory information.
 - Directory information includes: Student's name, current enrollment status, dates of attendance, major field of study, degrees, certificates or awards received, verification of student participation in officially recognized school activities and sports, and weight and height of

members of athletic teams, and the most recent public or private school attended by the student.

By law 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 fi le in the event of a subpoena. The student shall have the right to request a copy of any information released in this manner.

Any questions regarding the student's rights under this act should be directed to the Executive Dean of Enrollment Services or the dean's designee.

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 to students.

This information may be obtained from Student Health Services at 562-938-4210 (LAC) or 562-938- 3992 (PCC). In addition, information may be obtained regarding counseling, treatment, and rehabilitation. LBCC offers forums and other educational programs regarding the harmful effects of drugs and alcohol. Information regarding programs may be obtained from the Office of Student Affairs at 562-938-4370. All inquiries will be held in the strictest confidence. In compliance with federal legislation, the Long Beach Community College District maintains a drug-free environment and supports a drug prevention program for student use. The unlawful manufacture, distribution, dispensation, possession, and use or sale of illicit drugs or alcohol is prohibited to all individuals 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.

Campus Security and Crime Awareness

The Long Beach Community College District maintains 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 who are assigned to both the Liberal Arts Campus and the Pacific Coast Campus.

Student Right-To-Know and Campus Security Act

The Long Beach Community College District is committed to making the campuses of LBCC 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. The college will provide assistance as needed to accomplish this task.

Long Beach Community College District policies identify the college as a secure facility. Access to all facilities outside of class hours requires prior approval from the Office of Business Services.

Under the auspices of the Long Beach Police Department College Unit, monthly crime reports are compiled and available for both students and employees. 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 that 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 website at the Long Beach Police Department 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 the Long Beach Community College District to make available its campus crime statistics and Annual Security Report. A link to the report containing the statistics can be found at

https://www.lbcc.edu/police-campus-safety.

Emergency Services – 911

The Long Beach Police Department should be contacted without delay by calling or texting 911 regarding any emergencies such as crimes in progress, medical aid, or any incident requiring immediate police or security response.

<u>General Police Services –</u> 562-938-4910 or 562-435-6711

The Long Beach Police Department College Unit should be contacted regarding questions or problems regarding security, lost and found items, thefts, or other crimes. The LAC office is located in Building X on Lew Davis. Business hours are Monday through Friday, 8:00 a.m. to 5:00 p.m. After business hours, calls can be directed to the General Service number.



Counseling and Student Development

The Counseling Department assists students in the selection of career and educational goals consistent with their interests and aptitudes. The mission of Counseling and Student Support Services is to provide and foster a nurturing and supportive environment that empowers students to persist in developing and achieving their full and unique academic, career, personal, and education life goals. Counseling services are readily available to all students and tailored to meet each individual's needs.

Comprehensive counseling assistance is available during a scheduled 30-minute counseling appointment. Additionally, Express or First Come First Serve counseling sessions are available in 10-minute segments on a walkin basis. Career counseling services will assist students through the career exploration and decision-making process.

Students may schedule an appointment in person at A-1111 (LAC) or GG-202 (PCC), or by phone at 562-9384561 (LAC) or 562-938-3920 (PCC), or online at <u>www.lbcc.edu/counseling</u>. For counseling hours at either campus, check the LBCC website under the A-Z directory.

Online counseling services are also available as a flexible alternative to meeting with a counselor in person. Students may meet with a counselor via webcam, online, express or online chat. General questions may also be answered via email. Visit the Online Counseling website at <u>www.lbcc.edu/online-counseling</u> or access it directly from the LBCC website at <u>www.lbcc.edu</u> and click on Online Counseling.

Campus Child Development Center and Learning Lab

Childcare and preschool services make attending classes more convenient for many students. Quality care is available for children between 2 and 5 years of age, before kindergarten entrance. Both LBCC campuses have childcare facilities. Financial assistance may be available for income and need qualifying families. The facility used is not dependent on the location of classes. The centers

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are open Monday-Friday from 7:00 a.m. to 5:30 p.m. and partial and full-day options are available. For information about fees, space availability, and parent responsibilities, call 562-938-3079 or 562-938-3082 (PCC), 562-938-4253 or 562-938-3185 (LAC) or visit <u>www.lbcc.edu/childdevelopment-center</u>.

Transfer Center/Evaluation Center

The Transfer Center assists students with their goal of attending a university after taking courses at LBCC. A variety of services such as university application assistance, university representative appointments, transfer fairs, admissions workshops, and university tours are available. The Transfer Center also assists students with the evaluation of transcripts from other college and universities through the Evaluation Center services.

The Transfer Center is located in A-1097 (LAC) and EE-105 (PCC). Visit <u>www.lbcc.edu/transfer-center</u> useful university links, regular transfer updates, valuable transfer resources, and current hours of operation. There are a number of ways to contact us remotely. To contact the Transfer Center remotely, visit the online chat lobby at <u>https://lbcc.craniumcafe.com/group/transfercenter--welcome-desk-/lobby</u>. For more information, call 562-938-4670/3916 or email <u>transferacademy@lbcc.edu</u>.

Career Center

The Career Center offers students with services designed to guide them with the career development process. Through the following activities, students are given information about career awareness, exploration, career planning, career readiness, and current economic trends to better inform their decisions about their educational and career goals.

The following are offered through the Career Center:

- Career Assessments
- Career Counseling
- Career Workshops
- Classroom Presentations
- Employment Search Database
- Resume Writing and Review
- Career Resource Lab equipped with computers and internet access
- Specialized Employment Readiness Workshops

Career Center services offer the opportunity to explore career options and be successful in entering the 21st century workforce. Counselors and staff are available to assist students. The Career Center is located in A-1097,

562-938-4670 (LAC) and LL-206, 562-938-3174 (PCC). For important career resources, access to an employment database, explanation of services, and current hours of

operation, please visit https://www.lbcc.edu/node/7454.

Student Life and the Student Unions

The mission of the Office of Student Life is to create, encourage, and support a positive and collegial learning environment whereby the college is enhanced, and students can better pursue their educational goals. Numerous activities and programs give students the opportunity to connect to LBCC. These programs present opportunities for leadership development, personal growth, shared governance, healthy competition, volunteerism, and developing a sense of community. Student Life Offices are housed in the Student Union at both campuses: Building E (LAC) and Building EE (PCC).

Clubs and Organizations: Joining a club or organization provides the perfect opportunity for students to make new friends, develop leadership skills, and contribute to the college and community. Utilizing contacts and experiences can help students build their resumes and plan for their futures. To join a club, visit the Viking Engagement system at

https://lbcc.campuslabs.com/engage.

Student Government: The Associated Student Body (ASB) is the student voice for all students of LBCC. The ASB supports the intellectual, physical, social, and cultural goals for students through its sponsorship of educational and co-curricular programs. Students interested in participating in student government, including the Associated Student Body Cabinet, may wish to consider one of the many elected or appointed positions. The ASB is funded by the College Services Card. To contact ASB, please email <u>asbpresident@lbcc.edu</u>.

Intramurals and Recreation: Intramurals and recreation strive to promote better health by offering a variety of activities for participants of all abilities. Intramurals and recreational sports offer a wide range of programming and play an integral role in student life. For more information, call 562-938-4978 (LAC) or 562-938-3088 (PCC) or email <u>studentlife@lbc.edu</u>.

Viking Volunteer: The mission of the Viking Volunteer program is to provide students with opportunities to serve their campus and community and become lifelong civic leaders. Volunteering helps connect students, clubs, and organizations to the community through service. Viking Volunteers receive an official

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transcript record of their volunteer service, which has helped many LBCC students in transferring to four-year colleges and universities. For more information, call 562-938-4978 (LAC) or 562-938-3088 (PCC) or email <u>studentlife@lbcc.edu</u>.

LBCC Student Unions: The Student Unions are a one-stop location for getting involved in student clubs and organizations, buying the College Services Card, applying for the Viking Volunteer program, signing up for Intramural activities, and getting connected to resources in Long Beach. On both campuses, the Student Union includes a safe and quiet space for studying or socializing with other students. The unions are located in Building E (LAC) and Building EE (PCC). For more information, call 562-938-4978 (LAC) or 562-938-3088 (PCC) or email studentlife@lbcc.edu.

Workforce and Economic Development Programs

LBCC is a leader in creating and retaining regional jobs and advancing the region's economic growth and California's global competitiveness. This charge is a core part of the mission of the California Community Colleges, as essential as academic programs, vocational training and student services.

Economic and workforce development programs help businesses grow and create jobs and help people develop the skills they need to succeed in the workplace. LBCC focuses on the following core business activities vital to the region's economy: small business development, global trade, supply chain management and logistics, advanced transportation (alternative fuels and electric vehicles) and energy technologies, health care, and emerging technologies and innovations.

Programs and initiatives include:

Center for Community and Industry

Partnerships: Connecting community and industry partners with LBCC students and faculty through workbased learning engagements like classroom speakers, industry workshops, and advisory committees.

Internship and Job Placement: Customized internship and job search tools and support for students.

Customized Training for Industry: Creating partnerships with industry to develop customized training and professional development for individuals and businesses to help meet the needs of regional employers.

Community Education: Providing professional development.

Small Business Development Center Network:

Facilitating millions of dollars in capital for small businesses, creating and retaining thousands of jobs, and supporting start-ups from launch to growth, and established businesses through advising and workshops.

Goldman Sachs 10,000 Small Businesses

Program: Accelerating small business growth and job creation in the Southern California Region with a world-class business and management education program and business support services.

Global Trade: Workshops and consulting services for small businesses to enter new global markets, expand existing global sales, and a specialized eCommerce program that provides strategies for growth through the Center for International Trade Development.

Building the Entrepreneurial Ecosystem:

Accelerating the development of high-growth start-up businesses with targeted education and mentoring and connecting entrepreneurs to resources and funding networks to foster job creation.

WEDD develops and maintains collaborative partnerships with regional industries to ensure the college's business and professional development courses and training programs meet or exceed industry standards. The division is also recognized for innovative customized training for business and industry, technical assistance, and employee assessment and skills development programs. For more information, call 562-938-5020.

Student Health Services

Student Health Services (SHS) provides quality and accessible medical care and mental health services and education for students. SHS partners with the City of Long Beach and the surrounding community to provide comprehensive clinical services and no-cost or low-cost care. SHS engages students in making informed decisions about their health care, empowering them to be selfdirected health care consumers.

All students who have paid the Student Health Center fee can utilize medical and mental health services at no additional charge. Regardless of insurance coverage, students are eligible for basic health services and mental health support at the Student Health Center.

Medical Care Services

SHS provides medical care through the services of nurse practitioners, registered nurses, and health service technicians. SHS embraces a holistic and collaborative approach to the wellbeing of students by offering wellness education, preventative services, and other medical care services. SHS is attentive to the diverse health needs of all students and confidentiality is always respected. Below are some services provided through the health care fee.

Medical Care Services Offered:

- Acute Illness
- UTI Testing
- Pregnancy Tests
- STI Referrals & Testing (LB Dept. of Public Health)
- Birth Control Counseling
- Nutrition and Disease Consults
- Health Education
- Physicals
- Immunizations
 - Flu
 - TB Screens
 - Hepatitis B
 - Tdap vaccines
- Health Care Referrals
- Workshops and Events:
 - The Body under Stress
 - Eating Intuitively
 - Nutrition 101
 - Freedom from Smoking
 - Healthy Heart
 - STI Prevention and Protection
 - Nutrition Budget and Snacks
 - Vaping and Hookah Dangers
 - Walking Wednesdays
 - Wellness Fest

Mental Health Services

Mental Health Services (MHS) is committed to promoting student mental health and wellbeing, and strives to help students achieve their academic, professional, and personal goals. Social and Emotional Health Services are provided by Licensed Clinicians or Graduate Interns. Confidentiality is always respected with services. For more information or to schedule an appointment, call 562-938-4210 (LAC) or 562-938-3992 (PCC).

Social and Emotional Health Services:

- Short Term Therapy
- Anxiety and Panic Disorders

- Depression
- Eating Disorders
- Relationship Issues
- Academic Stress
- Stress Management/Anger Management
- Substance Abuse
- Suicide Prevention
- Same Day Appointments Available for Students

Workshops and Events:

- Mindfulness: Finding Peace
- Self Esteem
- Substance Misused Awareness
- Stress Management
- Holiday Blues
- Art of Wellness
- Laughter
- Healthy Relationships
- Depression
- Anxiety
- Mental Health Awareness Month
- Movies for Mental Health

Evening Safety Escorts

Safety 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. Call 562-938-4910 or 562-435-6711.

Parking and Traffic Regulations

A current semester student parking permit or a daily parking permit is required for all LBCC lots. Student permits and daily permits do not authorize parking in staff areas, metered parking, or other reserved areas except where posted otherwise. LAC offers additional parking in the Veterans Stadium Parking Lot. Parking permits can be purchased each semester during registration at the time the College Services Card is purchased or may be obtained later at the Cashier's Office.

The following 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. For students who do not wish to purchase a semester parking permit, daily parking permits are available at both campuses. Parking permit machines at LAC are located in lots E, F, H, M, P, and Veterans Stadium. Two machines are located on each level of the parking structure. The PCC machines are located in Lots 1, 2, and 10.

- Metered parking is available in Lots F, G, and H and on Lew Davis Street at LAC and in Lot 2 at PCC. Thirty-minute visitor parking zones are also located along the north curb of Carson Street for LAC and in Lot 7 at PCC.
- Semester parking permits must be affixed to the lower-left corner of the inside windshield so it is visible from the front of the vehicle. 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 for assistance. Students driving a convertible-type vehicle can obtain a special convertible permit from the LAC College Police located in Building X. 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 spaces, metered stalls/parking or other reserved parking spaces except where posted otherwise.
- Parking is available on a first-come, first-served basis.
- In LAC Lots G, H, and P, after 4:00 p.m., students are allowed to park on a staff stall using a student permit. Any other staff stalls will require a staff permit at all times. At PCC, vehicles are required to display a staff permit when parking on a staff stall at all times.
- All vehicles must be parked between the lines of a designated parking space only. Backing into parking stalls is not permitted on diagonal stalls. Motorcycles and mopeds are to be parked only in areas specifically posted for their use (LAC campus lot C, F, H, and parking structure; PCC campus lot 2). 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.
- A permit does not guarantee a parking space in the parking lot of choice. Students are advised to allow ample time to find parking. At LAC, additional parking is available in the Veterans Stadium parking lot.
- Citations are issued by the Long Beach Police
- Department to automobiles, motorcycles, and mopeds that do not display a properly placed, current parking permit. Students parked in staff areas or other specially designated areas will also be cited.

- 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 the instructions on the citation and by calling 562-570-6822 or by visiting <u>https://www.citationprocessingcenter.com/Citation</u> Search.aspx.
- Students, staff, or faculty with state-issued disabled placards are to park in marked handicapped spaces. If a handicapped space is not available, parking is allowed in any other student or staff space. Disabled permits are not valid in carpool spaces or other reserved spaces.
- Regulations pertaining to parking can vary from lot to lot. Each driver is responsible for reading the parking regulations that are posted at the entrance of each parking lot.
- Parking is free in the Veterans Stadium Lot at LAC and Lot 10 at PCC the week prior to and the first week of the semester only. Permits are required during intersessions at all times.

Electric Vehicle Charging

- EVCS (Electric Vehicle Charging Station) stalls are available at LAC Campus Parking Structure (First Floor) and at PCC Campus Parking Structure and Lot 10.
- Vehicles parked on EVCS (Electric Vehicle Charging Station) stalls MUST display LBCC Parking Permit (i.e. Staff Permit, Student Permit, or Day Permit).
 Vehicles MUST also be charging while parked on EVCS stalls. Failure to do one or both of the above requirements will result in the issuance of a parking citation.
- Vehicles parked on CAV (Clean Air Vehicle) stalls MUST display LBCC Parking Permit (i.e. Staff Permit, Student Permit, or Day Permit). Vehicles MUST also have CAV decal displayed that is issued from DMV visible on the vehicle. Failure to do one or both of the above requirements will result in the issuance of a parking citation.
- All LBCC parking rules apply such as no overnight parking within the hours of 11:30 pm to 5:00 am.
- At the discretion of the Parking Services Department, EVCS or CAV stalls may turn in to regular staff or student stalls if not being used. Those stalls can also be reserved for special event parking. ChargePoint users will be notified of these instances using the ChargePoint App.

For comments and/or concerns regarding the EVCS or CAV stalls, please contact the Parking Services Department at 562-938-4534.

STUDENT SUPPORT SERVICES

Student Financial Aid

LBCC 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 is intended to help students who might not otherwise be able to attend college. Although the primary responsibility for meeting college costs rests with the student and his or her family, the college recognizes that many families have limited resources and are unable to meet the cost of a college education. Federal and state financial aid programs have been established to provide assistance to students with documented financial need.

Awards are initially offered based on full-time enrollment. The number of units in which students actually enroll may impact the amount of financial aid received for the various aid programs. Please note that the number of units enrolled do not include courses for which students are wait listed.

Enrollment Status

In Primary Terms Number of UnitsFull-time12 or more unitsThree-quarter-time9-11.5 unitsHalf-time6-8.5 unitsLess than half-time1-5.5 units

The application process for financial aid begins with completion of the Free Application for Federal Student Aid (FAFSA), which is available on October 1 for the following fall semester. Students may apply online at https://studentaid.gov/h/apply-for-aid/fafsa.

In addition to having financial need, students must meet the following conditions:

- Be enrolled in an eligible program of study leading to completion of an A.A. or A.S. degree, transfer requirements, or a certificate program
- Maintain satisfactory academic progress
- Be a U.S. citizen or eligible noncitizen
- Certify compliance with selective service registration requirements
- Not be in default on any student loan or owe a refund on any grant made under any Title IV program
- Have a social security number and have a high school diploma, or GED

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 Financial Aid Programs

Federal Pell Grants

Pell grants are a federally funded program designed to be the foundation of financial aid for undergraduates who demonstrate need. The amount of the Pell Grant is based on the cost of attendance minus the expected calculated family contribution and the student's enrollment status at the time of payment. Award amounts vary according to eligibility and enrollment. For more information, visit <u>www.lbcc.edu/post/grants</u>. Pell Grants are limited to 6 years or 12 full-time semester enrollments.

Federal Supplemental Educational Opportunity Grants (FSEOG)

This federally funded grant is available to undergraduate students who demonstrate exceptional financial need. The awarding of FSEOG funds is limited* and must be given to maximum Pell Grant recipients.

The Federal Work Study Program (FWS)

This federally funded program provides employment opportunities* to students with financial need. Students awarded FWS receive an allocation of funds earned through part-time jobs on campus. FWS provides an excellent learning process through on-the-job training. Students are employed a maximum of sixteen hours per week while school is in session.

*FSEOG and FWS funds are limited and early application is strongly advised.

The William D. Ford Direct Loan Program

This program provides loans to students to be used for educational expenses. Freshman students may borrow up to \$3,500 per year, and sophomores who have completed at least thirty units may borrow up to \$4,500 per year in subsidized loans. Based on need, additional unsubsidized loans are also available.

STUDENT SUPPORT SERVICES

California State Financial Aid Programs

California College Promise Waiver

Students can qualify for the California College Promise Waiver in several ways:

The student demonstrates financial need according to federal methodology based on completion of the Free Application for Federal Student Aid (FAFSA), OR

The student or the student's family is receiving CalWORKs, formerly TANF/AFDC, Supplemental Security Income (SSI), or General Assistance/ General Relief, or the student is a disabled veteran or a dependent of a deceased or disabled veteran as certified by the California Department of Veterans Affairs, or the student is a recipient or the child of a recipient of the Congressional Medal of Honor, or the student is a dependent of a victim of the 9/11/01 terrorist attack, or the student is a dependent of deceased law enforcement or fire suppression personnel killed in the line of duty, OR

The student meets specific income criteria based on family size as set by the State of California.

The California College Promise Waiver will require satisfactory academic progress. All grades will be used to determine eligibility. Any combination of two consecutive fall and spring semesters of cumulative GPA below 2.0 or cumulative course completion of less than 50% may result in loss of the California College Promise Waiver. For more information, visit https://www.lbcc.edu/ccpg.

Cal Grants

Cal Grant Programs are available to California Residents who qualify. United States citizens, permanent residents, or eligible noncitizens may apply for Cal Grants via the Federal Application for Student Aid (FAFSA). Beginning January 15, 2013 AB-540 students may apply via the California Dream Act Application. The maximum opportunity deadline to apply is March 2nd each year for all California college students. If a student misses the March 2^{nd} deadline and plans to attend a community college in the fall, the student has until September 2nd to apply for limited remaining grants. Cal Grants also involve a GPA submission requirement. The college electronically transmits GPA verifications for certain students. For detailed information, go to www.csac.ca.gov. Students must be actively enrolled in at least six units to receive Cal Grant benefits.

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

Cal Grant B provides a living allowance and tuition and fee assistance for low-income students. Cal Grant B may be used at community colleges as well as at four-year schools.

Cal Grant C helps vocational 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.

Student Success Completion Grant

The purpose of the SSCG grant award is to provide the student with additional financial aid to help offset the total cost of community college attendance, and to encourage full time attendance and successful on-time completion.

To qualify for the SSCG:

- Be eligible for a Cal Grant B or C award
- Meet federal satisfactory academic progress (SAP)
- Have unmet need to receive the SSCG
- Maintain full time attendance

A maximum of \$1,298 annually at six hundred forty-nine dollars (\$649) per semester, or quarterly equivalent, for eligible students who enroll and attend 12 through 14.99 units per term.

A maximum of \$4,000 annually at two thousand dollars (\$2,000) per semester, or quarterly equivalent, for eligible students who enroll and attend 15 units per term.

Funds for this program are limited and awarded on a first-come, first-served basis. Early application is strongly advised.

Chafee Grant Program

This program is available to former foster youth. Awards are \$5,000 per year. Students may apply using the FAFSA and the separate Chafee Grant application. For more information, visit <u>www.csac.ca.gov</u>.

Dream Act/AB540 Eligibility

Several types of state and institutional aid are available to AB 540 students as a result of the California Dream Act, such as the California College Promise Waiver or Cal Grants. Visit <u>www.lbcc.edu/california-dream-act</u> to read more about these awards.

Return of Title IV Funds Policy

The Financial Aid Office is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out, or are dismissed. Prior to completing 60% of a payment period or term, the federal Title IV financial aid programs must be recalculated in these situations. LBCC will use the date of complete withdrawal or drop to determine the amount of federal aid that is "earned" based on the amount of time the student was enrolled.

If a student leaves the institution prior to completing 60% of a payment period or term, the financial aid office recalculates eligibility for Title IV funds. Recalculation is based on the percentage of earned aid using the following Federal Return of Title IV funds formula: Percentage of payment period or term completed = the number of days completed up to the withdrawal date divided by the total days in the payment period or term. (Any break of five days or more is not counted as part of the days in the term.) This percentage is also the percentage of earned aid.

Withdrawals

LBCC will use the date of complete withdrawal or drop to determine the amount of federal aid that is "earned" based on the amount of time the student was enrolled. If a student does not officially withdraw from all classes but fails to earn a passing grade in at least one course, federal aid regulations require that the college assumes the student has "unofficially withdrawn," unless it can be documented that the student completed the enrollment period. Unofficial withdrawals require a Title IV refund calculation at the midpoint of the enrollment period. The reduction of federal aid may create a balance due to LBCC that must be repaid.

Title IV Refund Process

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula: Aid to be returned=(100% of the aid that could be disbursed minus the percentage of earned aid) multiplied by the total amount of aid that could have been disbursed during the payment period or term.

If a student earned less aid than was disbursed, the institution would be required to return a portion of the funds and the student would be required to return a portion of the funds. Keep in mind that when Title IV

funds are returned, the student borrower may owe a debit balance to the institution.

If a student earned more aid than was disbursed to them, the institution would owe the student a post-withdrawal disbursement which must be paid within 180 days of the student's withdrawal. The institution must return the amount of Title IV funds for which it is responsible no later than 45 days after the date of the determination of the date of the student's withdrawal.

Refunds are allocated in the following order:

- Unsubsidized Direct Stafford Loans
- Subsidized Direct Stafford Loans
- Direct PLUS Loans
- Federal Pell Grants for which a Return of funds is required
- All other Federal Grants for which a Return of funds is required

Title IV Refund Repayment Policy

- 1. A bill is sent with the amount due. The student will not be eligible for further financial aid funds until the overpayment is paid in full. In addition, school records will be placed on HOLD. The student cannot register for classes or request academic transcripts until this bill has been paid in full.
- 2. If the student does not pay this bill or make payment arrangements, the overpayment will be reported to the National Student Loan Data System (NSLDS). NSLDS notifies all other colleges and universities that the student now owes money. The student will be ineligible to receive further financial aid at any college. The NSLDS notification will be removed when the bill is paid in full.
- 3. If the student continues to ignore this bill, and a final notice is sent to the student, the account will be turned over to the Department of Education for all future collection. The Department of Education has the ability to garnish wages, withhold tax refunds, send the student account to a collection agency, and take the student to court to recover the money owed.
- 4. The student must pay this bill in full within 30 days.

Financial Aid Office	
Liberal Arts Campus	Pacific Coast Campus
Room A-1075	Room GG-201
562-938-4485	562-938-4485

Veterans Service Office (VSO)

The VSO provides an office of support for active military, veterans, and their dependents by offering assistance with processing VA Educational Benefits, Educational Counseling, Financial Aid, and Enrollment at LBCC. Additionally, the VSO has partnered with multiple national, state, and community resources to offer additional non-educational or VA assistance to student veterans with their transition and success at LBCC.

Veteran Services Office	VSO Outpost
Liberal Arts Campus	Pacific Coast Campus
A-1029	GG-102
562-938-4162	
*Limited Service at the PCC campus.	

<u>G.I. Bill</u>

Qualification for a G.I. Bill[®] is determined by the Department of Veteran Affairs. Students and prospective students may go to the VSO for assistance in completing the Application for VA Education Benefits.

After a student has applied for a G.I. Bill[®], they must start a file in the Veteran Service Office, meet with a VSO counselor and enroll in appropriate courses, they must complete a Request for Certification of Benefits at <u>www.lbcc.edu/overview/veteran-student-services</u> per federal regulations, only required courses for a declared major can be certified by the institution. For additional information/ clarification please contact the VSO. The G.I. Bill[®] is a registered trademark of the U.S. Department of Veterans Affairs (VA).

Scholarship Office/LBCC Foundation Scholarships

LBCC administers more than 1,000 scholarships each year. These scholarships are funded by campus and community organizations, local businesses, and private donors. The Scholarship Office/Foundation Office is located in A-1041 (LAC). For more information on scholarships, visit www.lbcc.edu/scholarships.

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 LBCC. Recipients must maintain a 3.0 GPA or higher and be enrolled in the Honors Program once they attend LBCC. Scholarship applications are available in September at <u>www.lbcc.edu/scholarships</u>.

Extended Opportunity Program & Services (EOPS)

Extended Opportunity Programs and Services is a retention program that provides educational counseling and educational planning, along with a network of benefits and supportive services, to economically and educationally disadvantaged students. Through this assistance, EOPS improves students' opportunities to successfully complete their educational goals and to do so with a higher level of achievement and in a timelier fashion.

Benefits and services provided by EOPS include priority registration, academic and personal counseling, and supplemental book assistance based on available funding. Students who wish to apply for the program must first complete the Free Application for Federal Student Aid (FAFSA) at <u>www.fafsa.ed.gov</u> or the California Dream Act financial aid application available at <u>www.csac.ca.gov</u>.

EOPS Eligibility: Students must be California residents, have completed less than 55 degree-applicable units, be enrolled full-time (unless enrolled in DSPS or qualify for a waiver to enroll in 9-11.5 units as a new student), be eligible for the California College Promise Fee waiver, and meet the educationally disadvantaged criteria.

Cooperative Agencies Resources for Education

(CARE) is a program within EOPS that provides additional benefits and supportive services to EOPS students who are single parents, heads of households, participating in the county CalWORKs/GAIN program, have at least one child, and are receiving cash aid for the child. The objective of the program is to provide linked resources that enable eligible students to complete college-level training and educational programs. Some of the services provided include educational childcare grants, meal cards, and personal development workshops.

NextUP is a program within EOPS that provides additional benefits and services to support the success, health and well-being of current and former foster youth enrolled at LBCC. To participate, students must be a current or former California foster youth active within the system after the age of 16, be under 26 years of age and enrolled in at least nine (9) units. Foster & Kinship Care Education Program is a statewide program funded by the California

Community College Chancellor's Office, providing a variety of training programs for foster parents (parent education), and specialized training for relative caregivers, including D-Rate (Severely Emotionally Disturbed), F-Rate (Medically Fragile), Basic, and Inservice training. KEPS Orientation is offered to support relative care providers with their involvement with child protective services.

For more information, call 562-938-3144 or visit the UU Building (PCC).

CalWORKs

CalWORKs funds assist parents who are receiving Temporary Assistance for Needy Families (TANF) and those in transition off welfare to achieve long-term selfsufficiency through coordinated student services. CalWORKs participants can also take advantage of the college's work-study program, which employs students in professional companies that provide them with job training.

Services available for eligible students can include career, academic, and individual advisement and counseling, book and supplies voucher assistance, employment assistance-including work-study assignments, resume writing, job search skills, and interview preparation, childcare assistance, support and services referrals, job placement referrals and assistance, on-site GAIN workers and advocacy, coordination with the Department of Social Services (DPSS), completing SIP/VOC Referral forms, progress reports, educational plans, training verifications, monthly attendance reports, and book and supply material request forms. Please note: Students must submit a class printout with all documentation turned in for completion.

Eligibility requirements include the following: parent and child must be recipients of CalWORKs/GAIN (TANF), program participants are required to sign a contract with the college and GAIN program, and students must be enrolled in Credit and/or noncredit courses at LBCC.

CalWORKs students have the responsibility of complying with a combination of 20 to 30 hours per week, or 35 hours for two parent households, of academic coursework, work activity, laboratory time, structured internships, or other activities which will lead to proper preparation for their careers, and students must meet with their CalWORKs counselors at least once per semester. For more information about CalWORKs services, office hours, and location, call 562-938-3116 or visit www.lbcc.edu/calworks.

Disabled Student Programs and Services (DSPS)

The college offers support services to provide students with an equal educational experience. DSPS provides many services that empower students with disabilityrelated limitations to participate in the college's programs and activities. These services include the following:

Specialized Counseling Services

Academic, career and disability management counseling services with certified staff who understand the educational limitations presented by a disability.

Learning Disabilities Assessment

Diagnostic assessment services for the presence of a specific Learning Disability (LD) or Intellectual Disability (ID) using the Learning Disability Eligibility and Services Model (LDESM).

Registration Assistance

Assistance for students who have difficulty navigating the online, telephone or in-person registration system.

Financial Aid Liaison

Information and liaison assistance for students needing help accessing information or completing financial aid requirements.

Referrals to Resources On and Off Campus

A wealth of campus and community resources are available to support students in their pursuit of their educational, vocational and personal goals.

Assistive Computer Technology

Access and training in the use of assistive computer technology. Students can learn how to access print in alternate formats and gain greater independence and access to computer technology.

Sign Language Interpreters

Sign language interpreters, real-time captioning, and other services for students who are deaf or hard of hearing are available to eligible students.

Test-Taking Assistance

Alternative test-taking services may include extra-time, materials in alternate formats, use of readers/scribes, or other appropriate forms of assistance. Both Section 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 require accessibility of technology and access to programs and courses. Section 508 is a federal law that requires agencies to provide individuals with disabilities equal access to electronic information and data comparable to those who do not have disabilities unless an undue burden would be imposed on the agency. LBCC is committed to making its electronic and information technologies accessible to individuals with disabilities by meeting or exceeding the requirements.

DSPS is committed to assisting students with disabilities 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 562-938-4558 (LAC), 562-938-3921 (PCC), or 562-275-7471 (video phone).

Americans with Disabilities Act of 1990

Americans with Disabilities Act of 1990 prohibits discrimination against people with disabilities. This prohibition applies to employment, public services including public and private transportation, public accommodations, and telecommunications services.

The ADA Amendments Act (ADAAA) was enacted on September 25, 2008 and became effective on January 1, 2009. The law made a number of significant changes to the definition of "disability" under the ADA. It also directed the U.S. Equal Employment Opportunity Commission (EEOC) to amend its ADA regulations to reflect the changes made by the ADAAA.

Support services for students with disabilities are provided through the Disabled Students Programs and Services Program. Individuals needing information about services for students with disabilities should contact this office at 562-938-4558 (LAC) or 562-938-3921 (PCC). A student can register with the 504 compliance officer and does not need to register with DSPS to receive certain services and accommodations for confidentiality purposes.

Questions or complaints of unlawful discrimination should be directed to the district compliance officer at 562-938-4095.

Section 504, The Rehabilitation Act of 1973

In compliance with Section 504 of the Rehabilitation Act of 1973, the college has developed a Disabled Students Programs and Services program. Offices are located on both campuses in room A-1134 (LAC) and GG-107 (PCC). Individuals needing information about programs for students with disabilities should contact this office at 562-938-4558 (voice) or 562-938-4833 (TDD).

Questions or complaints of unlawful discrimination should be directed to the district compliance officer, 4901 E. Carson St., Long Beach, CA 90808, 562-938-4095.

Student Special Programs

Adult Education Program

The adult education, and noncredit courses and programs, prepares basic skills learners, English as a Second Language learners, economically disadvantaged, and other non-traditional college students to attain the essential knowledge, skills, and abilities to successfully acquire and retain employment, transition to college, and/or effectively explore, plan, and establish career pathways leading to growth opportunities in high demand occupations.

These courses are offered free (except for any applicable materials fees) and do not provide credit toward a degree.

Viking Advantage

Viking Advantage is a First-Year Experience (FYE) program for any first-time college students enrolled in 12 or more units per semester. The program aims to increase college access and remove barriers to student success while increasing degree attainment and transfer.

The benefits of the program include:

- First year tuition (primary terms only) at LBCC
- Priority registration
- Second year programming focused on career development and mentoring.

Requirements to participate in Viking Advantage:

- Be a California resident (or AB 540)
- Be a first-time college student
- Enroll in a minimum of 12 units at LBCC per semester
- Apply to FAFSA or CA Dream Act
- Complete the program participation agreement by the published deadline.

Long Beach College Promise (LBCP)

The Long Beach College Promise (LBCP) extends the promise of a college education to every student in the

Long Beach Unified School District to create a more vibrant community. LBCP aims to fulfill the academic potential of all youth by offering guidance and continuous support along every step of the student experience, from pre-K through college and onto career and life. LBCP creates a culture of academic expectations, increases college readiness, improves graduation rates among Long Beach students, and raises the educational attainment rates of the entire Southern California region. Fueling LBCP is a dynamic partnership between Long Beach Unified School District, Long Beach City College, California State University, Long Beach, the City of Long Beach, and the Port of Long Beach.

Requirements to participate in the Long Beach College Promise:

- Must be a LBUSD, Mayfair, St. Anthony or St. Joseph high school graduate
- Must enroll at LBCC directly following graduation from high school
- Must be a first-time college student
- Enroll in 12 units or more at LBCC per primary semester
- Apply to FAFSA or CA Dream Act
- Complete the participation agreement by the published deadline
- Be a California resident (or AB 540)

Promise 2.0 is an enhancement to the Long Beach College Promise offering an optional program for Long Beach Unified School District graduates who pledge to follow an admission pathway to California State University, Long Beach (CSULB) in one of ten preapproved majors.

Promise 2.0 participants receive these additional benefits:

- Specialized advising/counseling
- Specialized programming at LBCC and CSULB
- A "Future Student" CSULB ID Card
- Participate in select CSULB campus events by special invitation

Requirements to participate in Promise 2.0:

- Must meet eligibility for Long Beach College Promise
- Must attend an in-person orientation at CSULB
- Complete the Promise 2.0 student agreement
- Take a prescriptive set of courses to transfer to CSULB
- Meet all eligibility requirements for transfer to CSULB

Puente

The mission of the Puente program is to increase the number of educationally underrepresented students who enroll in four-year colleges and universities, earn college degrees, and return to their communities as leaders and mentors. Puente students receive intensive writing instruction, academic counseling, and mentoring from positive role models. In addition, they participate in a Transfer Motivational Conference, UC/CSU field trips, and cultural events such as Noche De Familia and attending a Latino play. Puente is open to all students. For more information, email counselor Vidal Vargas at <u>vvargas@lbcc.edu</u> or call 562-938-3016 or 562-938-3095.

Trio Program - GO Project

LBCC Growth and Opportunities (GO) Project is a federally funded Student Support Service program designed to increase the number of students with disabilities who transfer to four-year colleges and universities. The GO Project is a comprehensive program of academic support and personal development services for low-income, first-generation college, and disabled students to achieve retention and graduation rates that exceed that of the general student body. A major advantage of GO Project participation is services and activities that are tailored to meet the specific individual needs of each student.

GO Project offers specialized tutoring, cultural enrichment and field trips, career and life counseling, financial education, and academic and transfer counseling services. GO Project is located in GG-217, 562-938-3233 (PCC). For more information, visit www.lbcc.edu/trio-go-project.

Trio Program - Upward Bound

The Upward Bound Program provides comprehensive academic, social and emotional support services to 67 enrolled participants. The program serves three target high schools in the Long Beach Unified School District with the overall goal of assisting participants to successfully enroll in and complete a post-secondary education.. The Program accomplishes this objective by enhancing participants' academic skills, personal motivation and confidence needed to succeed in college. Upward Bound recruits students who are from lowincome families, potential first generation college graduates and have a high academic need for services. Foster youth and students who have complex barriers impeding their academic success are a high priority in the recruitment process. Programming is structured to enhance participants' academic skills, personal motivation, effective communication and leadership

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skills, creative and critical thinking skills, a positive attitude toward learning, and tolerance toward others. Participants attend the program on a year round basis and receive high school elective credit for completing an intensive six-week summer program. As of March 2020, all services have been replicated and students have available services six days a week.

The program offers two specific components:

- Academic Year Programming (Sept. June) Saturday Academy includes but is not limited to: assistance in choosing a college; tutoring; personal and financial counseling; career counseling; assistance in applying to college; special instruction in reading, writing, study skills, and mathematics; assistance in applying for financial aid; SAT preparation; leadership development workshops; college tours; and exposure to enrichment engagement. Annual academic activities/events also include after school tutoring, academic advisement, socio emotional and social justice workshops and STEM opportunities.
- 2. Six-Week Summer Programming (June Aug.) Students participate in an authentic "college going" experience" by residing on a local college campus and taking college-level courses. The intensity of the summer program is designed to enhance each student's abilities inside and outside of the classroom and to prepare students for how to successfully navigate the rigors of college. Students have the opportunity to take part in a variety of academic classes such as English Composition & Literature & Composition, Foreign Language, Math, and Laboratory Science as well as innovative STEM programming. Following the completion of the summer component, an annual excursion to visit colleges in Northern California punctuates the six weeks.

Umoja Scholars Program

Umoja, (a Kiswahili word meaning unity) is a community and critical resource dedicated to enhancing the cultural and educational experiences of African American and other students. Umoja believes that when the voices and histories of students are deliberately and intentionally recognized, the opportunity for self-efficacy emerges and a foundation is formed for academic success. Umoja actively serves and promotes student success for all students through a curriculum and pedagogy responsive to the legacy of the African and African American Diasporas. Umoja Scholars' Program students receive academic counseling, career exploration guidance, personal counseling, transfer counseling, participate in professional development conferences, cultural events, and may attend tours and field trips to UC/CSU and Historically Black Colleges and Universities based on space and availability.

For more information, call 562-938-3159 or email the counselor at <u>umoja@lbcc.edu</u>.

Federal and State Compliance

Civil Rights Compliance Statement

The Long Beach Community College District does not discriminate in its admissions, educational programs, activities, or employment policies on any basis, including but not limited to race, religious creed, color, national origin, ancestry, gender, sexual orientation, age, disability, marital status, medical condition, mental or physical disability including HIV and AIDS, and other protected classes, 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. Questions or complaints of unlawful discrimination should be directed to the District compliance officer at 562-938-4095.

Title IX. Prohibiting Sex Discrimination in Education

The Long Beach Community College District is committed to supporting all regulations under Title IX. "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance." Questions or discrimination complaints should be directed to the Title IX Coordinator at 562-938-4095 or email <u>titleix@lbcc.edu</u>.

Mandatory Orientation: Sexual Violence Prevention

The Long Beach Community College District provides sexual violence prevention information to students during on-campus orientations and posts this information on the campus website at <u>www.lbcc.edu/post/sexual-assault</u>. 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.

Victims of sexual assault on campus should immediately call the Long Beach Police Department College Unit; call 911 from a cell phone for an officer to respond. Victims may also choose to go directly to a hospital emergency room for medical care. LBCC health services are available on both campuses during business hours in building A-1010, 562-938-4210 (LAC), or room GG-117, 562-938-3992 (PCC).

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. This policy 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.

Questions and sexual harassment complaints should be directed to the District compliance officer at 562-938-4095.



Libraries

Liberal Arts Campus L Building 1st Floor 562-938-4232/4231 Pacific Coast Campus LL Building, 1st Floor 562-938-3028/3029

Libraries at each of the two main campuses serve as vital information centers and provide access to resources from all over the world. The library collections include printed 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.

Students can:

- Borrow DVDs, CDs, textbooks for their classes or books for research or leisure reading
- Study in the group study rooms or in the quiet study areas
- Read magazines, journals, and newspapers
- Borrow books from other libraries worldwide via Interlibrary Loan (ILL)

The library website provides access to reliable websites for research and other valuable resources such as the

electronic article databases for articles in magazines, journals, newspapers and trade publications; and the online catalog.

During all hours the libraries are open, librarians are available to assist students with their research needs in person and via e-mail and instant messaging. To help students develop information competency, the library faculty at both campuses offer instruction in the form of courses, orientations, and workshops on a variety of topics. For more information, visit www.lbcc.edu/library.

LAC & PCC Multidisciplinary Student Success Centers

Liberal Arts Campus	Pacific Coast Campus
L-212	EE-206
562-938-4699	562-938-3991

For more information, visit https://www.lbcc.edu/mdsc

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The Multidisciplinary Success Centers provide:

- Supplemental Learning Assistance
- Workshops on a variety of topics
- Tutoring
- Adult Basic Education
- Test preparation
- TEAS preparation
- Foundational Skills Development
- GED Preparation

Tutoring Centers

Liberal Arts Campus	Pacific Coast Campus
L-203	EE-206
562-938-4474	562-938-3991

Free tutoring is available in a variety of subjects, including accounting, biology, chemistry, physics, foreign languages, and math. Students may work individually or in small groups. For more information, visit www.lbcc.edu/tutoring-center.

Math Success Center

Liberal Arts Campus V-163 562-938-4228

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

Additionally, the Center provides free peer tutoring to students registered in any math course offered at LBCC. Students can arrange to meet others enrolled in the same course for informal group study. Math faculty are available for supplemental instruction.

The 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. Students may use the Center facilities on a walk-in basis throughout the semester. They must register for MATH 650, a free noncredit course, and be concurrently enrolled in any math course.

Writing and Reading Success Center

Liberal Arts Campus E-09L 562-938-4520

The Writing and Reading Success Center (WRSC) is located in the lower level of the E Building. The WRSC offers free tutoring for any subject requiring writing or reading assistance and Supplemental Learning Assistance (SLA) activities for English and reading classes. Tutoring is available in 30-minute appointments and 15-minute walk-ins. SLA activities are available in three formats: an instructor-guided, one-hour workshop format; a tutorfacilitated, one-hour Directed Study Group (DSG) format; or a Directed Learning Activity (DLA) format, in which the student first works alone on the activity and then an instructor or tutor reviews the student's work.

Appointments are necessary for all workshops and DSGs, but when space is available, walk-ins are welcome. The WRSC also features a computer lab, pay-for-print services, and a wide range of written, online, and audiovisual materials for student use. For more information, visit <u>www.lbcc.edu/writing-and-readingsuccess-center</u>.

Nursing and Allied Health Learning Center and Skills Lab

Liberal Arts Campus C-304 and C-211 562-938-4299

The Nursing and Allied Health Learning Center and Skills Lab provide supplementary material and skills practice for students enrolled in a nursing or allied health program. Various self-paced print media and multimedia programs and skills equipment resources are available.

The Learning Center is located in Room C-304 and is open during posted hours. The Skills Lab is located in Room C-209, 210, and 211 and is open during posted hours.

A simulated hospital room in room C-204 is available to expose students to technology that simulates health care

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scenarios in a controlled setting. Many nursing courses utilize simulation to facilitate learning.

Foreign Language Lab

Liberal Arts Campus	Pacific Coast Campus
B-206	EE-204 and EE-205

The Foreign Language Lab offers linguistic support for students enrolled in foreign language classes. Lab assistants are available to assist students with online resources that come with the textbook program, as well as to assist with accessing resources on foreign language websites.

The Lab has open lab hours during which time students can work on their foreign language online assignments or access additional online resources. Visit the college website for more information.

English as a Second Language Learning Center

Pacific Coast Campus LL-216 562-938-3255

ESL Tutoring and Support: The English as a Second Language Learning Center is available to all students enrolled in English as a second language courses. The Center provides students with tutoring assistance by ESL professors and instructors, assistance with coursework, homework, technical help with research projects, and free workshops.

The Center supports students with English grammar, speech, reading, and writing and provides assistance with class research projects. Students may enroll in ESLLC 699 at the ESL Learning Center, or register in the ESL office in room LL-211. For more information, visit www.lbcc.edu/post/esl-learning-center.

Academic Computing Centers

Liberal Arts Campus	Pacific Coast Campus
L-251	LL-122
562-938-4854	562-938-3049

Macintosh and PC computers, the Microsoft Suite, specialized software, black/white and color printers, scanners, and Internet access are available to students in large open-access computer labs at both campuses.

Student Technology Help Desk (STHD)

The Student Technology Help Desk (STHD) supports all LBCC students in accessing and successfully using LBCC technology. The STHD is staffed with knowledgeable and friendly student team members to provide peer guidance to all students. The STHD is available to support students via phone, email, chat, and in person. All assistance provided is free for LBCC students.

Phone: 562-938-4250 Student Resources website: <u>www.lbcc.edu/sthd</u>

Liberal Arts Campus L Building – 2nd Floor Landing

Pacific Coast Campus EE-102 (Student Union)

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. For more information, call 562-938-4669.

Computer and Office Studies (COS) Study Centers

Liberal Arts Campus	Pacific Coast Campus
B-105	AA-206

The COS Study Centers offer students attending a COS course additional support by giving access to different applications used by the instructors. Each computer has the ability to access software such as MyITLab, VMware, Dreamweaver, Microsoft Offi ce, and other software applications. For information, please visit https://www.lbcc.edu/post/cos-study-center.

Presentation Practice Room

A presentation practice room is available at the LAC campus in room L-212 by appointment for students wanting to practice, view, and record their classroom presentations. For more information, call 562-938-4699.



Faculty Office Hours

All instructional faculty who are teaching full-time hold five regularly scheduled office hours per week. Students may ask instructors for their hours and office locations.

Class Syllabus

All faculty members are required to publish and keep on file in their division offices a course information sheet, or syllabus, for each course each semester and to 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 as indicated in the official course outline and must contain grading standards for the class, a description of the means by which the course is to be taught such as lecture, laboratory, and outside assignments, attendance requirements, learning outcomes from the institution's officially approved course outline, and office location and office hours. Other recommended items to include in syllabi are examination dates, text assignments, and an outline of topics to be covered in the course.

Student Attendance

Attendance is the responsibility of the student. Students who do not attend 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. An instructor who drops a student for nonattendance shall do so 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. Official documentation will be required for all requests to be considered.

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. 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 of 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 enrollment period and before the end of the fourth week of class for a 16-week course or an equal percentage of the course length for shorter term courses. The fee for auditing a class shall be in accordance with the California State Education 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 nonrefundable.

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

Curriculum Offerings

The courses listed in this catalog may not be offered every term or every year. Check the Schedule of Classes for current term 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.

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.

ACADEMIC POLICIES

100-199	Courses not intended for transfer but may meet a limited number of requirements for the A.A./A.S. 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.

Students should see a counselor if they have questions about course credit applicability.

Required Instructional and Other Materials Fees

Students may be required to purchase instructional and other materials required for a credit or noncredit course. Such materials shall be of continuing value to a student outside of the classroom setting and shall not be solely or exclusively available from the District. These fees are not covered by the California College

Promise Grant (CCPG) Fee Waiver (Title 5 Cal. Admin. Code Sec. 59400).

Assembly Bill AB 705

No More Placement Testing

As a result of Assembly Bill 705, community colleges are no longer doing assessment testing to place students into English, ESL, and math courses. AB 705 is a law that requires California Community Colleges to maximize the probability that a student will enter and complete transfer-level coursework in English and math within a one-year timeframe. This law changes how students are placed in English and math college courses. California Community Colleges are required to use multiple measures, which include high school grades, coursework, and grade point average. Students are also encouraged to discuss with their counselor any other educational or work experience they may have, as well as work history, military training, specialized licenses, and certificates. If a student has completed a placement test in the past, it is recommended that they speak with a counselor.

Course Prerequisites, Corequisites, and Recommended Preparation

Prerequisites, corequisites, and recommended preparation advisories 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 a specific course. Satisfactory completion of an assessment requires successful completion of the assessment process. Satisfactory completion of a prerequisite course requires a grade of P or a "C" or better.

If a student has completed a prerequisite at another college or in high school, the student must bring a copy of his or her official transcript to the Admissions and Records Office and ask for an equivalency evaluation before registering. The student may challenge the prerequisite if the student believes he or she has the knowledge and the ability to succeed in the course, particularly if the student is drawing upon his or her work experience and wishes to take a vocational course. Information regarding prerequisite challenges can be found at <u>www.lbcc.edu/admissions-records</u>.

A corequisite is a course in which the student must be enrolled at the same time as a companion course. Corequisites are often used in science classes that include a lab. In some cases a student may be allowed to complete the corequisite course in a prior semester.

A recommended preparation statement is a set of skills or a course that will significantly increase a student's probability of success in a course but is not necessarily required for success.

Challenging Course Requisites and Limitations

Challenging course requisites or limitations requires written documentation that explains the alternative course work, background, or abilities that adequately prepare the student for the course. Students may obtain a Prerequisite 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. The student believes the requisite or limitation was established in violation of a regulation or district-

approved process for establishing requisites and limitations

- The student believes the requisite or limitation is discriminatory or is being applied in a discriminatory manner, or
- 4. The student believes he or she has the documented knowledge or ability to succeed in the course.

Students may file the Prerequisite Challenge Form with the school office or department head responsible for the course he or she wants to enter. If space is available in the class at the time the student files the challenge, the student may register for the challenged course and the District will resolve the challenge in a timely manner. If the challenge is denied, the student will be dropped from the challenged class.

If no space is available in the challenged class at the time that the Prerequisite Challenge Form is filed, the District will resolve the challenge prior to the beginning of registration for the next term. The student may register in the challenged class during the normal registration period if the challenge is approved.

Grading Regulations

Grading System - Final grades are issued after the end of the term in which the student was enrolled. 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 the grade point average - GPA); 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. The student is responsible for initiating a request for an incomplete, but the I grade is assigned at the instructor's discretion. An instructor may give a grade of I and indicate the grade to be assigned in the event that 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 an instructor, a student is not eligible to enroll in the same class until the incomplete is resolved. Petitions to change an I grade 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. See LBCC's Administrative Policy and Regulation 4021 regarding all requirements for incompletes.

Withdrawal

A 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 for military withdrawal, in which an MW is assigned.

- Students withdrawing or being dropped after the final deadline for a W 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.
- Full semester-length classes: Drops made before the census date will not be recorded on the official transcript. Withdrawals on or after the census date will be recorded as a withdrawal. After 75 percent of a class has taken place, students must be issued a grade.
- 3. Students may petition for a W grade after the final deadline for a withdrawal only for extenuating circumstances beyond the control of the student, such as a verified accident or illness. Petitions must be reviewed and approved by the Grade Review Committee.

Military Withdrawal

A 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 a W 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 1990.

Excused Withdrawal

The purpose of the EW non-evaluative symbol is to permit a student to withdraw from a course for reasons

beyond their control. A student may request to use an EW for only one course or all courses in a term depending on the reason for the request. EW is acceptable when a student withdraws from a course(s) due to reasons beyond their control, which include but are not limited to, the following:

- Job transfer outside the geographical region.
- Illness in the family where the student is the primary caregiver.
- An incarcerated student in a California State
- Prison or County Jail is released from custody or involuntarily transferred before the end of the term (In the case of an incarcerated student, an excused withdrawal cannot be applied if the failure to complete the course(s) was the result of a student's behavioral violation or if the student requested and was granted a mid-semester transfer).
- The student is the subject of an immigration action.
- Death of an immediate family member.
- Chronic or acute illness.
- Verifiable accidents.
- Natural disasters directly affecting the student.

Verifiable documentation can include, but is not limited to, a note from a doctor stating the student is not currently able to complete the work due to illness, employment verification of a new job, a booking report, police report of an accident, or any other documentation that proves the student's completion of a course is impractical.

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 a student's GPA.

Grade Point Average Calculation

Grade Point Average (GPA) is the numeric measure of a student's average performance in all completed lettergraded courses. LBCC transcripts show two different grade point averages:

Term GPA is the point average of grades over one semester

Cumulative GPA is the point average of grades over all the academic courses the student has taken at LBCC, University or Community College in which units are counted toward degrees or utilized to satisfy major and/or elective requirements.

Other schools and agencies may calculate GPAs differently from LBCC when evaluating records for admission to graduate and professional school programs. Students should contact them directly regarding their policies.

STEP ONE: Determine Criteria and Courses to be Used in Factoring the GPA

Determine what type of GPA is desired, e.g., major, overall or term. LBCC reviews all coursework to identify which courses should be used to factor the GPA.

Include courses that are:

- Letter-graded taken at LBCC, and
- Letter graded taken at any accredited university or community college in which units are counted toward the degree or utilized to satisfy major and/or elective requirements.

Exclude courses that are:

- Graded P, NP, W, MW, IP, RD, or I.
- Excluded repeat units.
- Illegal repeat units.

STEP TWO: Calculate Grade Points for Each Course Being Used in the GPA

The official GPA is calculated by dividing the total number of grade points by the total number of attempted units. These figures can be found on the official transcript. Attempted units are found in the **ATTEMPTED** column; Grade Points are found in the **POINTS** column.

Example:

- A student has 116.40 Grade Points and 40.00 Attempted Units.
- 116.40 Grade Points / 40.00 Attempted Units = 2.91 GPA.

The GPA is calculated by converting each letter grade into Grade Points, and then multiplying each grade by the course unit value.

Here is an example:

Course	Course Unit Value	Letter Grade	Grade Points	Course Unit Value x Grade Points
Cl	3	Α	4	3X4=12
C2	3	D	1	3X1=3
C3	4	С	2	4X2=8
C4	2	А	4	2X4=8
C5	3	р	0	3X0=0
Total	12			31

GPA is = (GPA*Credit)/Total Credits. In this example, GPA would be 31/12 or 2.58 GPA.

Change of Grades

All grades are final in the absence of mistake, fraud, bad faith, or incompetence. A student who believes a final grade to be incorrect may file a "Request for Change of Grade" form, which can be obtained on the Admissions and Records website at <u>www.lbcc.edu/admissions-</u> <u>records</u>. All requests for grade changes 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 Credit 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 W 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 policy is the grade of MW.

Repetition of Courses

State regulations restrict the number of times a student may enroll in a course within a community college district. Most courses are designated as nonrepeatable, which means that a student can only repeat the course under the following circumstances:

To alleviate substandard work: When a mark of D, F, NP, or W has been previously recorded in a course, a student may enroll to repeat the course. The student is limited to a maximum of three attempts in any one course to earn a passing grade. The grade from the most recent time the course was repeated will be used for determining grade point average regardless of whether the last grade is higher or lower than the grade earned on previous attempts. The grades for all earlier attempts and the most recent attempt shall each be recorded on the student's permanent record, ensuring a true and complete academic history.

Significant Lapse of Time: When a mark of A, B, C, or P has been previously recorded in a course, a student may only repeat the course if 36 months have passed since the grade was awarded and the student is required to have taken the course within a recent amount of time as required by another course or program at the college or at another college or university to which the student seeks to transfer. For courses in which a grade of A, B, C, or P has been recorded, the grade of the repeated course shall be counted in calculating a student's grade point average. The grades of all earlier attempts and the most recent attempt shall each be recorded on the student's permanent record, ensuring a true and complete academic history. Courses repeated under this criterion will not be used for determining financial aid, scholarships, or athletic eligibility. Unit credit is allowed only once. Neither credit nor grades shall be allowed for unauthorized repeated courses.

Mandated Training: A student will be allowed to repeat courses in which the student has previously earned a grade of A, B, C, or P when repetition of the course is necessary in order to meet legally mandated training requirements or conditions of continued paid or volunteer employment. Enrollment under this provision is limited. Documentation supporting the mandated training is required and must be submitted to the Enrollment Services office.

Change of Industry Standard or Licensure:

A student may be allowed to repeat courses in which the student has previously earned a grade of A, B, C, or P when repetition of the course is necessary in order to maintain licensure or if an industry standard has changed significantly since the course was taken and the student needs the skills in order to gain or keep employment. Documentation supporting the licensure or change in industry standard is required and must be submitted to the Enrollment Services office.

The student is responsible for ensuring 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. Credit by examination and courses in the 600-number noncredit band 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 Enrollment Services office. Academic renewal is subject to the following conditions:

- A student must have completed at least 24 units of lower division credit coursework at a regionally accredited community college with at least a 2.0 cumulative GPA subsequent to the petition.
- At least 12 months must have elapsed since the substandard credit coursework was recorded.
- A student may request that up to 30 units of substandard credit coursework be annotated and disregarded in the computation of the student's grade point average or requirements for degree. Only those requested courses with substandard credit grades (D or F) will be disregarded.
- All coursework, including substandard coursework, shall remain on the official record.
 The transcript shall be appropriately annotated to indicate that academic renewal has been applied.
- A student may be granted Academic Renewal only once.
- Academic Renewal by LBCC does not guarantee that other institutions will honor this action. It is the student's responsibility to ensure that the transfer institution will approve of Academic Renewal from LBCC.
- Once a certificate or degree is posted on the official transcript at LBCC, Academic Renewal will not be available.

Academic and Progress Probation

A student shall be placed on probation whenever the student's academic record indicates any of the following conditions:

Academic probation: The student's grade point average falls below 2.0 in all units graded according to the 4.0 grading scale after the student has attempted 12 units or more at LBCC.

Progress probation: After enrolling in a minimum of 12 units at LBCC, the student has completed less than one-half of all units in which the student has enrolled as reflected in the student's academic record.

For the purposes of progress probation, 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 (listed as "Earned" on the transcript).

Students on academic or progress probation shall be subject to counseling intervention which includes the following provisions:

- Completion of a workshop or individual counseling appointment.
- Completion or revision of an Educational Plan.
- Limitation of enrollment to a maximum of
- 12 units each semester until the student is off probation.
- Completion of the sequence of basic skills courses in the Educational Plan, if applicable.

Any student on probation shall be reclassified as "satisfactory" whenever the cumulative grade point average reaches or exceeds 2.0 and the ratio of unitscompleted to units-enrolled is one-half or better based on the number of units indicated in section 1 above.

Academic and Progress Dismissal

A student who remains on probation for at least two semesters who has not resolved the deficiencies in their academic record shall be dismissed unless satisfactory progress is indicated during the semester in which the dismissal will occur. The student will remain on probation, but dismissal will not occur if satisfactory progress in maintained.

Satisfactory progress is defined as follows:

- In the case of academic dismissal, the student must complete at least 3 units during the semester with a semester grade point average of at least 2.0.
- In the case of progress dismissal, the student must enroll in at least 3 units during the semester. If enrolled in 3 to 5.5 units, the student must complete all units. If enrolled in 6 or more units, the student must complete 80% of the units.
- Academic and progress dismissals are recorded at the end of the fall and spring semester.

Readmission After Dismissal

A dismissed student who is readmitted shall be readmitted as a student on probation. Students on academic and/or progress probation shall be subject to counseling intervention. Counseling intervention shall include the following provisions:

1. Completion of a workshop or individual counseling appointment

- 2. Completion or revision of an Educational Plan
- 3. Limitation of enrollment to a maximum of 12 units each semester until the student is off probation and
- 4. Completion of the sequence of basic skills courses in the Education Plan, if applicable.

Outstanding Student Scholarship

LBCC acknowledges outstanding student scholarship in three ways: on the Dean's Honors List, in 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 Honors List

To be eligible for the Dean's Honors List, a student must meet the following requirements: Attempt 12 or more units* in the specific semester with a 75 percent or higher overall completion ratio and maintain the necessary semester GPA to qualify for outstanding scholarship described above.

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

Alpha Gamma Sigma Scholarship Society

LBCC has two chapters of Alpha Gamma Sigma, the California community college honor scholarship society. Students eligible for the Dean's Honors List are encouraged to apply for membership. Students with a 3.1 overall cumulative GPA in 12 or more units completed are also eligible for membership. The Kappa Chapter is located at the Liberal Arts Campus and the Delta Chi Chapter is located at the Pacific Coast Campus. Information and applications for both chapters are available in the Student Affairs Office, E-206 (LAC), 562-938-4552.

Entrance to LBCC with Scholarship Honors

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 in high school and must have matriculated to LBCC.

Graduation with Scholarship Honors

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.

Honors Program

The Honors Program is an academic program that serves motivated, high-achieving students who plan to transfer to competitive colleges and universities. Honors students enroll in Honors courses, which satisfy general education requirements in more than a dozen disciplines. Students who complete the Honors Program have proven records of success in their applications to competitive baccalaureate programs and many go on to professional and graduate schools.

Admission to the Honors Program

To apply for admission to the Honors Program, a student must complete an online application and obtain two recommendations. To be eligible for the Honors Program, students must have a GPA of at least 3.25. For detailed information about the LBCC Honors Program and the application process, call the Honors Program office at 562-938-4354, visit room L-162 in the LAC Library, or visit <u>www.lbcc.edu/honors-program</u>.

Honors Courses

Honors courses generally have fewer students and offer more intensive study than is normally possible in regular sections of the same courses. All Honors courses satisfy general education degree and transfer requirements. Please see the schedule of classes for current offerings.

Honors Certification

To earn Honors Certification, a student must complete each of the following requirements by the spring before transfer:

- Complete at least five Honors courses
- Maintain a cumulative GPA of at least 3.25 in transfer-level courses
- Maintain a GPA of at least 3.25 in all Honors courses taken
- Obtain Honors counselor certification of completion of lower division requirements for transfer

Creating a Collegiate Environment in the Classroom

Creating an environment that is conducive to learning is the cornerstone of offering a good education. Every person at LBCC is responsible for helping to maintain this environment, including students. Simple rules of courtesy and civility apply.

Respect for the Instructor: This concept means arriving for class on time, not leaving early, bringing appropriate materials, not speaking with other students while the instructor is speaking, not bringing food or drink to the classroom, and not being loud, boisterous, or argumentative.

Respect for Other Students: This concept means not interfering with the rights of others to listen and participate, not being disrespectful, and not using inappropriate language or harassing others in any way.

Academic Honesty: Lack of honesty in the classroom is a very serious offense. Any form of cheating on tests, turning in work which is not one's own, talking during tests, furnishing false information to instructors, or knowingly misrepresenting oneself to the college is grounds for disciplinary action. The consequences of cheating are severe and may include the possibility of expulsion.

Instructor's Rights: An instructor has the right to remove a student from class at any time the instructor considers the student's actions to be interfering with a proper collegiate environment. The instructor may also refer the incident to the Director of Student Discipline and Student Life for disciplinary action as warranted.

Student's Rights: All students have the right to due process. If a classroom conflict occurs, students should discuss the issues with the course instructor during the instructor's office hours. Additional resources for resolving conflicts include the department head, school dean, and Vice President of Student Support Services or designee.

Student Conduct

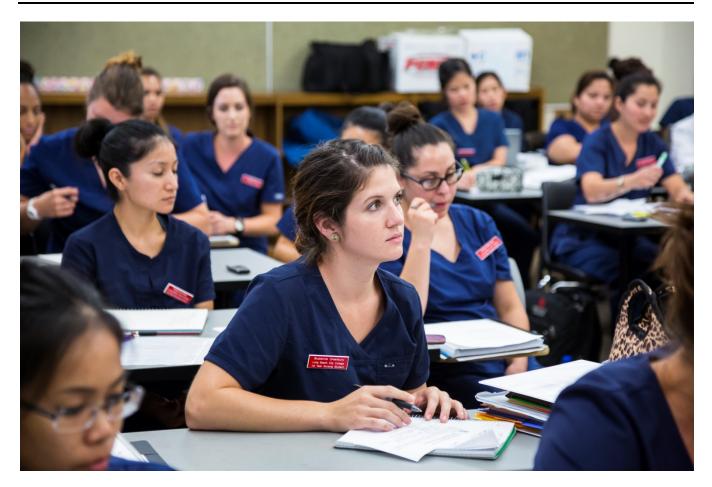
A proper campus environment is of great importance to assure academic and individual success. The Board of Trustees has established campus-wide standards of student conduct and simple campus rules which are enforced at all times. These rules are particularly important in large common areas such as the cafeteria, bookstore, vending, campus offices, College Center, Student Center, Activities Center, campus quads, athletic areas and other highly frequented areas. All students must conform to the Standards of Student Conduct, which are detailed in the Administrative Regulations on Student Conduct, AR 5012. These Regulations and are strictly enforced by the Office of Student Affairs. To read the full regulation, visit https://www.lbcc.edu/sites/main/files/fileattachments/5012_reg.pdf?158284735

Campus Rules

The following campus rules must be adhered to at all times. Violations subject students to disciplinary action.

- Smoking of any kind, including use of electronic devices, and all uses of tobacco are prohibited on all District property and in all indoor and outdoor spaces, and in all District-owned vehicles. Smoking and vaping in private vehicles that are parked in LBCC lots is also prohibited.
- Eating and drinking are prohibited in all buildings except where food is sold or as part of an approved and scheduled activity.
- Gambling on the campus is prohibited. Gaming is restricted to the PCC Student Lounge and the LAC Activities Room.

- 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.
- Literature to be distributed must be approved by the Office of Student Life.
- Children are not allowed on campus unless under the supervision of a parent or guardian or officially enrolled in an approved college program. Children may not attend classes with a parent or guardian unless the course is specifically designed to include children. Children must be supervised so that educational activities are not interrupted and may not be left unattended in common areas such as the library, computer labs, cafeterias, quads, or lounges.
- Vehicles without a parking permit must park in visitor parking, or their drivers may purchase a one-day parking permit.
- Students are required to be fully attired, including shirts or blouses and footgear.
- Skateboarding, skating, and bike riding is prohibited on campus grounds. Officers will cite any violators.
- The use of electronic devices without headphones is prohibited on campus except in connection with approved campus or classroom activities.
- Electronic recording devices may not be used in any classroom without the permission of the instructor.11. Electronic recording devices may not be used in any classroom without the permission of the instructor.



To earn one unit of lecture course credit, students must complete a minimum of 18 hours of class time during a semester or equivalent term and are expected to devote an average of two hours of preparation outside of class for each one hour of lecture class time. To earn one unit of credit in a laboratory, demonstration or practice situation class, students must complete a minimum of 54 hours of class time for one semester or equivalent term. Some additional outside-of-class preparation may be expected. For work experience classes, one unit of credit represents 75 hours of paid employment or 60 hours of volunteer work per semester. In order to qualify for Work Experience, students must be currently enrolled in a qualifying occupational program and have an instructor's approval.

Pass/No Pass Courses and Grading

Some courses allow a student to change the grading option to pass/no pass instead of a letter grade. Students may change the grading option online via student selfservice or by completing and submitting a pass/no pass form in the Enrollment Services 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 receiving letter grades. To receive a grade of pass, a student must do work equivalent to a C grade or higher. Students seeking an associate degree are limited to 20 units on a pass/no pass grading basis. All 800-band courses, which are not applicable to a degree, are graded pass/no-pass. Courses taken on a pass/no pass grading basis do not affect the grade point average at LBCC. Students should consult the catalogs of the schools to which they intend to transfer to determine those schools' policies.

Maximum Student Unit Load

Full-time unit load definitions for a regular academic semester are as follows:

- Minimum full-time unit load: 12 units
- Normal full-time unit load: 15 units
- Maximum full-time unit load: 18 units
- Maximum full-time unit load with written permission: 21 units

For students with good academic standing and who are not on any form of probation, the maximum full-time unit load definitions for any one or combination of summer terms in a given year are as follows:

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

The maximum unit limit for winter intersession is 6 units.

Enrollment limitations by residency category are as follows:

- Residents of California may enroll for up to the maximum full-time unit loads, as stated, during the academic year and summer session and winter intersession.
- Nonresidents, unless restricted by visa, may enroll for up to the maximum full-time unit loads, as stated, during the academic year, summer sessions, and winter intersession and must pay nonresident tuition.
- High School Students During the academic year, eligible high school students may enroll in a maximum of 8 units for fall and spring semesters and 5 units for summer terms and winter intersession. See the high school concurrent application form for specific requirements.

Waiver of Maximum Unit Load Limitation

- 1. A student may request a waiver of the maximum unit load limitation. 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.
- 2. To apply for a waiver, a student must meet the following requirements:
 - a. 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 counseling department.
 - b. The student must apply to the counseling department for a waiver no later than two weeks prior to the first day of open registration for the semester concerned. A waiver request after the two-week deadline requires approval

of the Dean of Counseling and Student Support Services.

- 3. The college reserves the right to grant special waivers in unusual circumstances.
- 4. Any student enrolled in more units than are 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 Enrollment Services or designated representative.

Credit by Advanced Placement

LBCC recognizes the Advanced Placement (AP) 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 LBCC'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 LBCC degree requirements. However, when a student transfers to any other college or university, that institution routinely reevaluates Advanced Placement units in accordance with its own internal policies. Thus, advanced placement units are indicated as such in official records and do not transfer as LBCC courses.

For updated AP test scores and the LBCC course equivalencies, please refer to the Admissions and Records website at <u>www.lbcc.edu/admissions-records</u>.

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 to earn credit in a specific course. The student must have completed at least 12 semester units at LBCC 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 Vice President of Student Services. For courses identified in the High School Pathways 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 in which each course is offered. The department shall 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.

- The department concerned also determines specific standards of student eligibility. 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 in 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.
- Students who take an exam for credit will be given the grade earned. For high school articulated courses, students will be given the grade earned or receive a "credit" grade depending on the method of grading for the course; if the student does not pass the examination, no notation will be made on the transcript and no credit will be awarded.
- 3. Units earned through Credit by Examination may not be counted toward the 12-unit residency requirement for the associate degree.
- 4. A fee will be charged for students to take Credit by Examination. The fee will be waived for participants in the High School Pathways Project.

Credit by Directed Study

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

- Students must have earned at least a cumulative 3.0 grade point average. Students must have completed 24 units, at least 12 of which must be earned at LBCC. Credit applied from other colleges must be supported by official transcripts on file with the Enrollment Services Office.
- 2. Prior approval of the faculty mentor who directs the study, the department head, and the 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.
- Directed Study may not parallel or equate with work in an approved course within the department. Directed Study is expected to be of an advanced nature and should go beyond the treatment in an approved course or series of courses. Work that

merely involves the production of a book report or term paper is not an appropriate project.

- 4. While the student's work is of an autonomous nature, the student is expected to meet at regular intervals with his or her faculty mentor to discuss progress and seek guidance and direction.
- 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.
- 6. 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 evaluated by the faculty mentor and kept on file in the department office. The completed authorization form will be forwarded through the approval process.
- 7. One to three units of credit will be granted upon satisfactory completion of a project.
- 8. Units will be indicated on the student's transcript as Directed Study 99 in the subject matter area.
- 9. Any 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.

Credit by College-Level Examination Program (CLEP)

LBCC recognizes the CLEP examinations of the College Board under the following conditions:

- Students are required to order official copies of their College Board transcripts with the appropriate CLEP scores and have the transcripts sent to LBCC's Enrollment Services Office.
- 2. Specific course credit will be granted for the
- 3. CLEP examinations in those instances in which the department concerned has determined that the material covered is comparable to a specific course offering within that department.
- 4. In situations where comparable courses are not offered by a department, CLEP scores may be applied toward General Education or elective unit requirements.
- 5. CLEP credit is granted for fulfillment of LBCC degree requirements. However, when a student transfers to

any other college or university, that institution routinely reevaluates CLEP units in accordance with its own internal policies for CLEP. Thus, CLEP units are indicated as such in official records and do not transfer as LBCC courses.

6. CLEP credit for an Associate Degree for Transfer is approved through the General Education certification for transfer to colleges or universities that accept LBCC's certification.

A full version of the regulation can be viewed at <u>https://www.lbcc.edu/sites/main/files/file-</u> attachments/4028 reg.pdf?1599065657.

Credit by International Baccalaureate (IB)

LBCC recognizes the International Baccalaureate Assessment under the following conditions:

- Students are required to order official copies of their IB transcripts with the appropriate IB scores and have the transcripts sent to LBCC's Enrollment Services Office.
- 2. Specific course credit will be granted for the IB examinations in those instances in which the department concerned has determined that the material covered is comparable to a specific course offering within that department.
- 3. In situations where comparable courses are not offered by a department, the IB scores may be applied toward General Education or elective unit requirements.
- 4. IB credit is granted for fulfillment of LBCC degree requirements. However, when a student transfers to any other college or university, that institution routinely reevaluates IB transcripts in accordance with its own internal policies for IB. Thus, IB units are indicated as such in official records and do not transfer as LBCC courses.

Transfer Credit from Other Colleges, Universities, and Institutions

The Long Beach Community College District accepts unit transfer credit from other appropriately accredited academic and professional institutions, provided that the student establishes residency at

• LBCC and satisfies any other curricular or academic limitations imposed by the District.

- The Vice President of Academic Affairs is responsible for the establishment of appropriate standards for the acceptability of transfer credit.
- The Executive Dean of Enrollment Services is responsible for enforcement of the standards of acceptability and for maintaining appropriate records of all transfer credit.
- Transfer credit, if otherwise appropriate, shall only be accepted from colleges and universities that have been properly accredited by a federally authorized regional accreditor. The acceptable accrediting bodies 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, the Western Association of Schools and Colleges, and the Accrediting Commission for Community and Junior Colleges.

Reciprocity of General Education Courses

Courses from other regionally accredited colleges and universities can be used towards the fulfillment of General Education at LBCC under Plan A. Courses approved for a specific General Education area at another institution will be honored for the comparable General Education area at LBCC.

Courses from schools without GE subject areas or proficiencies such as information competency will be evaluated for equivalency in order to satisfy that area.

Physical education activity and dance performance courses can be used to fulfill the Physical Fitness/Wellness area. Courses in food and nutrition and theater arts must be evaluated and approved by the department as an activity course.

Courses from other regionally accredited colleges and universities can be used towards the fulfillment of General Education at LBCC for Plans B and C, as well. Courses approved for a specific General Education area at another institution will be honored for the same CSU or UC General Education area at LBCC.

Any student from a U.S. regionally accredited university with a Bachelor Degree is exempt from the Plan A general education courses and graduation requirements.

Students with an Associate Degree from a U.S. regionally accredited college are exempt from the Plan A General

Education courses and graduation proficiencies. Students are exempt from graduation requirements should LBCC verify that the students' earned Associate Degree meets current graduation requirements in English and math.

Foreign Institutions

Acceptance of transfer credit from foreign institutions shall be subject to the student obtaining, at his or her own expense, a transcript evaluation from a credentials evaluation service as designated by the Dean of Enrollment Services.

Acceptable Transfer Credit

- 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 a corresponding course at LBCC.
- Second party credits will not be accepted. For example, School A, whose credits LBCC would normally accept, has itself accepted credits from School B. LBCC will not accept these credits from School B through School A, but only directly from School B, if otherwise acceptable.
- Where equivalency of transfer credits is questionable, the Records Office shall solicit the assistance of the School and College Articulation Office and the appropriate school dean or department head in determining whether or not a transfer credit is equivalent to LBCC coursework.
- 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.
- 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 LBCC courses. Students in these situations may apply for credit by examination, if such credit is offered.

Credit for Cooperative Work Experience Education

LBCC recognizes job experience as a valuable learning resource. The Cooperative Work Experience Education Program affords students the opportunity to earn college credit for learning while working on their jobs.

To earn Cooperative Work Experience credit, students must successfully fulfill measurable learning objectives

prior to the completion of the semester. The process of establishing these learning objectives for the student employee involves the employer directly. 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.

Students must be enrolled in a Career and Technical Education program offered at the college and have met one of the following two requirements:

- 1. Completed at least one third of the units required for the program.
- Completed or be concurrently enrolled in a course in the same program.
 Students must also participate in on-the-job learning experiences that contribute to occupational or educational goals and have the approval of the professor.

International students who wish to enroll in Cooperative Work Experience education must receive a release from the International Student Office prior to enrolling in work experience. The office is located at the Liberal Arts Campus, Building A, 562-938-4745.

Cooperative Work Experience education units meet eligibility requirements for veteran's benefits, social security, and financial aid. Cooperative Work Experience operates without regard to race, age, sex, religion, skin color, national origin, handicap, sexual orientation, marital status, ancestry, medical conditions such as cancer related illness, or status as a veteran. Additional information on the program and enrollment is available at the Academic Services Office located on the Liberal Arts Campus.

Credit for Educational Experience in Military Service

LBCC presently requires three units in a combination of physical education and health education classes for its 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. A student who wishes to receive these credits must have a copy of his or her DD-214 and fi le number from the Veterans' Administration to request such credit. Please contact the Veterans Affairs Office at LAC in building A for additional assistance. If a veteran feels his or her military schooling provided sufficient knowledge in a particular subject area and this credit is needed for graduation or advanced placement, he or she should refer to the section of this catalog on credit by examination. Each department head handles the particular subjects under his or her department. Not all departments allow credit by examination, so students should check the eligibility requirements carefully and then contact the department head involved to make the necessary arrangements for an exam, if one is permissible.

Policy on Academic Honesty

The Long Beach Community College District establishes an academic environment in which inquiry is nurtured, individual responsibility is rewarded, and academic dishonesty, cheating, and plagiarism are not tolerated.

For further information, refer to the Administrations Regulations 4018 on Academic Honesty located at <u>https://www.lbcc.edu/sites/main/files/file-</u> <u>attachments/4018 academic honesty.pdf?1581641399</u>.

Academic Freedom

In the spirit of academic inquiry and in keeping with the code of ethics adopted by the Academic Senate of LBCC, the policy of the Board of Trustees ensures 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.

For further information, refer to the Administrations Regulations 4012 Statement of Academic Freedom located at <u>https://www.lbcc.edu/sites/main/files/file-</u> <u>attachments/4012 statement of academic freedom.pd</u> <u>f?1599065388</u>.

Open Courses

Every LBCC course, course section, or class for which the full time equivalent student units are to be reported for state aid, unless specifically exempted by statute, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets course requisites.

GENERAL EDUCATION



General Education, Transfer & Degree/Certificate Requirements

This section includes information on the following:

- General Information on GE, Transfer, and Degree and Certificate Requirements
- Requirements for Associate Degrees and Associate
- Degrees for Transfer
- Requirements for Certificates
- List of Degrees and Certificates Offered
- Catalog Rights
- Admission Requirements to a 4-year Institution
- General Education Philosophy and Patterns
- Plans A, B, and C

General Information

LBCC degrees and certificates are proposed, developed, and implemented for the primary purpose of providing opportunities for students to reach their desired educational goals. Awards include associate degrees, certificates of achievement and accomplishment in many career and technical education areas, and certificates in the noncredit program for students seeking short-term vocational training, workforce preparation, and adults seeking to finish basic education or learn English as a second language.

LBCC offers the following degrees:

- Associate in Arts (A.A.)
- Associate in Science (A.S.)
- Associate in Arts for Transfer (A.A.-T)
- Associate in Science for Transfer (A.S.-T)

Associate Degrees include three components: major or field of study requirements, General Education (GE) requirements, and competency or admission requirements. Depending on the educational goal of the student, three options are offered for fulfilling GE requirements. These options are listed later in this section as Plan A, which may be used for an Associate in Arts and Associate in Science Degrees, Plan B for CSU transfer and Associate Degrees for Transfer, and Plan C for CSU or UC Transfer and Associate Degrees for Transfer. Students should see a counselor early in their educational planning so that they are certain to choose the appropriate GE pattern for their specific goals.

The awarding of an associate degree at LBCC represents more than an accumulation of units. The associate degree is designed to prepare students either for transfer to a four-year college or university or for immediate employment.

Associate Degrees

Associate in Arts (A.A.) and Associate in Science (A.S.) Requirements

Students may be granted an A.A. or A.S. degree as well as be certified for GE based on the requirements in effect at any time between their initial enrollment at LBCC and the present time provided continuous enrollment is maintained. 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.

Units – The associate degree (A.A. or A.S.) requires a minimum of 60 units passed, including the field of concentration, required GE courses, and free electives if applicable, as defined in the college catalog.

Scholarship – Students must achieve an overall grade point average of 2.0 based on all accredited college work that is applied to the degree, no matter where completed.

Residence – At least 12 semester units must be completed in residence at LBCC in order for the college to grant an Associate in Arts or an Associate in Science degree.

Field of concentration – 50 percent or more of the requirements for the chosen field of concentration, as defined in the program of study, must be completed in residence. Credit earned by exam, where applicable, may be counted as in residence. The field of concentration, the GE pattern, and the proficiency requirements must be those in effect for the same year. Per Title 5, section 55063 (a) (2) and effective as of 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 this standard, but they must meet any minimum grade standards established.

General Education and proficiency requirements-

Students may use any General Education Plan (A, B, C) to fulfill the GE requirements for a local degree; students who opt to use Plan B or Plan C are not required to fulfill the proficiency requirements included on Plan A. Students must use Plan B or C for the Associate Degree for Transfer (please see Associate in Arts/Science for Transfer information below.) Students who follow Plan A need to complete the proficiency in reading, writing, mathematics, and information competency. Students who follow Plan B or C need to complete only the requirements that are listed on Plan B or C. The field of concentration, the GE pattern, and the proficiency requirements when required (Plan A) must be those in effect for the same year. A student may use a course to fulfill a GE requirement in effect at the time the course was completed, even though the course may have been subsequently removed from the list of approved GE courses.

Matriculation – Matriculation materials must be submitted to the Admissions and Records Office prior to the application for graduation.

Dual Associate Degrees

An additional associate degree may be awarded to students who have met all requirements, including residence requirements, for a second field of concentration. Degrees may be earned concurrently. For an additional degree, students may use any LBCC catalog rights for which they are eligible.

Associate in Arts for Transfer (A.A.-T), and Associate in Science for Transfer (A.S.-T): Student Transfer Achievement Reform Act

LBCC offers associate degrees for transfer to the CSU, including Associate in Arts (A.A.-T) and Associate in Science (A.S.-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. LBCC students must complete 60 semester units, have a minimum overall GPA of 2.0, obtain a minimum grade of "C" or "P" for each course in the major, and complete either Plan B (CSU GE-Breadth) or Plan C (IGETC.) Students who are awarded an A.A.-T or A.S.-T degree are guaranteed admission with upperdivision standing to the CSU system and given priority admission consideration to their local CSU campus in a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an A.A.-T or A.S.-T, who not change their major at the CSU, and who do not

add a minor or second major, are able to complete their remaining requirements for the 120-unit baccalaureate degree at the CSU within 60 semester units.

For the Associate Degrees for Transfer, completion of either Plan B (the California State University GE Breadth pattern) or Plan C (Intersegmental GE Transfer Curriculum pattern) is required. Completion and posting of an Associate Degree for Transfer on the LBCC transcript serves as a student's GE certification. Interested students should consult with a counselor for more information about the CSUGE/IGETC certification process.

Associate in Arts for Transfer (A.A.-T), and Associate in Science for Transfer (A.S.-T) Degree Requirements

Minimum unit requirements: A minimum of 60 transferable units including a minimum of 18 units in a major or field of study. Students are permitted to double-count major requirements towards CSU-GE Breadth or IGETC GE patterns.

Minimum grade and GPA requirements: An overall grade point average of 2.0 in all CSU transferable coursework for the major. Students must complete each course with a grade of C or better, or P if the course is graded on a P/NP basis.

Residence for the degree: At least 12 LBCC degree applicable units (courses numbered 1-99) must be completed in residence at LBCC.

Degree application: Students will apply for their degree through their Viking Portal. Directions for applying for degrees can be found at <u>https://www.lbcc.edu/sites/main/files/file-</u> <u>attachments/how_to_apply_for_award.pdf?1598288801</u> Students should refer to <u>https://www.lbcc.edu/pod/registration-dates</u> to view the actual degree deadline for each semester. Students can receive further activations with applying for their degree

receive further assistance with applying for their degrees at the Completions Counseling Program at <u>completions@lbcc.edu</u> or 562-938-5180.

Local graduation requirements: For the Transfer degree, no additional local (LBCC) graduation requirements must be fulfilled for the transfer degree.

Certificates

LBCC offers four types of certificates:

A Certificate of Achievement* is awarded for successful completion of a course of study that consists of at least 16 units and is indicated on a transcript. In some cases, approved certificates may have a range of 8-15.5 units.

A Certificate of Accomplishment* is awarded for successful completion of a course of study that consists of less than 16 units and is not noted on a student's transcript.

A Certificate of Competency is a noncredit certificate intended for students who do not need credit for transfer or for employment but wish to improve their basic skills, learn English as a second language, or obtain short-term vocational skills needed for immediate employment.

A Certificate of Completion is a noncredit certificate intended for students who do not need credit for transfer but who wish to obtain the knowledge and preparation of skills needed for entry level positions in the workforce.

*Certificates of Achievement and Accomplishment are offered in specific occupational areas. All CTE certificates of Achievement and Accomplishment are reviewed by advisory committees comprised of representatives of the appropriate industry, students, and faculty. This process assures that programs meet current and future industry needs.

Certificate Requirements

LBCC 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, or career technical education, 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 necessary to progress beyond an entry-level position. One of the college's goals is to help students make informed career decisions.

To earn a certificate at LBCC, a student must do the following:

- Each of the required courses listed on the program of study must be completed with a grade of "C" or better. A certificate of completion or competency will require a minimum number of hours, mastery of content, or both.
- 2. Required courses for a noncredit certificate must be completed based on the required number of student contact hours and mastery of skills in the course outline.
- 3. Fifty percent or more of the requirements for the field of concentration must be completed in residence. Credit earned by exam, where applicable, may be included.
- 4. The certificate application form must be completed and submitted to the Admissions and Records Office during the final semester of coursework. This form is available in the Admissions and Records Office or online at <u>www.lbcc.edu/admissions-records</u>. Students should refer to the schedule of classes and click the "Important Dates" link to view the actual deadline for each semester.
- 5. Some divisions and departments may award certificates of accomplishment or completion at the division or department office. Interested students should consult the appropriate department head for details.

Catalog Rights

Catalog Rights

Each year, the LBCC Catalog is updated with the most current information including graduation and course requirements for degrees and certificates. Catalog Rights protect students from being held to additional requirements that may be added to a subsequent catalog.

Selecting a Catalog Year

Students are required to select a major within their first year at LBCC. If a student is undeclared or undecided on their major, LBCC Career Services and career counselors are available to help the student.

A student may follow the catalog requirements that were in effect at the time they begin taking classes at LBCC or follow the catalog requirements in effect for subsequent years, providing that they maintain continuous enrollment. When a student selects an academic year (fall through summer), the corresponding requirements contained within that catalog, or catalog addenda, must be followed.

Application of Catalog Rights

As soon as the student selects a catalog year to follow, it is in their best interest to inform the college. Catalog rights are maintained by receiving a letter grade of A, B, C, D, F, P, NP, W, MW, EW, or I on the official transcript for at least one course in the primary terms of fall or spring per academic year. Documented military withdrawal (MW) and excused withdrawal (EW) are not considered an interruption of enrollment.

Catalog rights are not in effect when a program requires that a student complete specific courses within an established time frame or when career and technical education requirements change due to industry standards. Catalog rights do not apply to the certification of general education (GE) requirements for transfer; courses used for GE Certification must be on an approved GE Plan at the time they are taken.

General Education Plans may be found at

https://www.lbcc.edu/post/general-educationpatterns.

Continuous Enrollment

Continuous enrollment is used to determine a student's Catalog Rights. Continuous enrollment is defined as enrollment at census in at least fall or spring of the academic year at LBCC, or any other regionally accredited higher education institution, after having initially enrolled at LBCC. Any of the following academic symbols entered on an LBCC transcript constitutes continuous enrollment:

A, B, C, D, F, P, NP, W, EW, MW, RD, or I. Students should consult with their counselor for current information or the degree appeal process for extenuating circumstances.

If transferring to a California State University (CSU) or University of California (UC), continuous enrollment rules will be defined by the receiving institution.

Academic Renewal

If a student is granted academic renewal for a primary term, that term will be counted as meeting continuous enrollment.

GENERAL EDUCATION

Inactivated or Discontinued Programs

If a student decides to change their major, a previously inactivated or discontinued program cannot be selected as a major regardless of catalog rights.

In the event that a student has declared a major and the corresponding program is to be inactivated or discontinued, the student will be notified each year by the Counseling Department of the following:

- There will be a teach-out period of no longer than 5 years;
- 2. Course substitutions may be provided by the department to satisfy the requirements, or
- 3. The student will be assisted to help select a major that contains the highest percentage of courses that have been completed, or
- 4. The student will be redirected to other community colleges in the area that provide the award, and
- 5. The college cannot award a degree or certificate when a program has been inactivated at the Chancellor's Office.

Continuous Attendance

"Continuous Attendance" is defined by the CSU as enrollment in a California community college, such as LBCC, or a CSU campus for at least one semester, or two quarters, of consecutive calendar years and is applicable to students interested in transferring to the CSU system. This concept is important for transfer students because continuous attendance affects the requirements for graduation from a CSU campus; therefore, students must be careful to combine "continuous enrollment" for LBCC requirements with "continuous attendance" for CSU requirements. The difference between these two definitions rests on how a school defines a "year." LBCC 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 (fall/spring) until they transfer. Only this way can they secure their catalog rights. Because of the confusion these two definitions might create, LBCC strongly recommends that all students see a counselor.

Admission Requirements for Transfer

Admission Requirements for Transfer to the California State University

While attending LBCC, students planning to transfer to the California State University System should follow the recommended pattern of IGETC-breadth requirements listed in Plan B. Students planning to transfer to either the Cal State University System or the University of California System may follow the recommended pattern of GE-breadth requirements in Plan C. In addition, students should take the specific lower division courses required for their chosen majors. Students should consult a counselor for assistance in identifying these requirements.

Lower division transfers: Undergraduate transfer applicants with fewer than 60 transferable semester units of study may qualify for regular admission if they were eligible as freshmen and have been in continuous attendance since high school graduation or if they 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; impacted majors or campuses may require a higher grade point average for admissions. Applicants who were not eligible as freshmen cannot be admitted as lower division transfers and must establish eligibility by completing the requirements for upper division transfers. Lower division transfer opportunities to CSU campuses or majors may be limited. Students should talk to their counselor about lower division transfer opportunities.

Undergraduate transfer applicants with fewer than 60 semester units of transferable college credit who have not completed the subject requirements may do so by meeting the following requirements:

- Completing appropriate courses with a C or better in adult school or high school summer sessions or
- 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
- Earning appropriate scores on specified examinations.

Upper division transfers: Upper division transfers may qualify for admission to a CSU if they have completed 60 transferable semester units and have completed appropriate college courses to fulfill any missing college preparatory subject requirements.

An applicant may also be eligible as a freshman to be admitted as a lower division transfer. The missing college preparatory subject requirements may be made up in the following ways:

• Complete the missing subject requirements in ways specified for lower division applicants or

- Students who graduated from high school prior to 1988 may complete with grades of C or better the CSU GE requirements in communication in the English language (9 units in areas A1, A2, and A3) and math (from area B4) or
- Students who graduated from high school in
- 1988 or later may complete with grades of C or better a minimum of 30 semester or 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 GE or transfer curriculum requirements.

Each student must complete all CSU GE requirements in communication in the English language (9 units in Areas A1, A2, A3) and the GE requirement in math (from area B4) as part of the 30-semester unit requirement.

Please consult the LBCC 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 LBCC Catalog are transferable to the CSU. Students with 60 transferable units are eligible to be admitted as upper-division transfers. A maximum of 70 semester transferable units earned at a California community college will be accepted by a CSU campus towards the baccalaureate degree.

A program at a CSU campus may be declared to be impacted when the number of applications received in the first month of the admission filing period is greater than the number of spaces available. Admissions standards may be raised for impacted programs. Students are urged to consult with a LBCC counselor to be aware of the filing deadlines and any supplemental admissions criteria for such programs.

Admission Requirements to Transfer to the University of California

Students planning to transfer to the University of California are encouraged to follow the recommended pattern of GE breadth requirements listed in Plan C/IGETC. However, some high-unit majors (e.g. engineering) may have other admission requirements.

A transfer student from LBCC may meet University of California admission requirements through any of three options. In all cases, transfer students who are California residents must have at least a 2.4 grade point average 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 or she graduated from high school in June 1986 or later.

The options are as follows:

- 1. If a student was eligible for admission to the university when he or she graduated from high school, that student may transfer at any time provided that he or she has maintained a 2.0 GPA in transferable community college courses.
- 2. If a student was not eligible for admission after high school because he or she did not meet subject requirements, the student may take college courses in the subjects that were missed and transfer upon successful completion of those courses. Students must earn a grade of C or better in each of these required courses and an overall GPA of 2.0 in all transferable college coursework. If fewer than 12 semester or 16 quarter units of transferable college coursework are completed, the student must also satisfy examination requirements for freshman applicants.
- 3. If a student was not eligible for admission after high school graduation because he or she did not achieve the required score on the eligibility index and may also have lacked the required A-G subjects, the student must do the following:
 - a. Complete 60 semester units of transferable college credit with a grade point average of at least 2.4 and satisfy either (b) or (c) below.
 - b. Complete appropriate college courses with grades of C or better in the A-G subjects that were lacking. The university will waive up to two units, or two academic years, of the required high school coursework except in math and English.
 - c. Complete with grades of C or better the following college courses:
 - i. **English**: one transferable college course in English.
 - 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 from high school prior to June 1986, the math course must have elementary algebra as a prerequisite.

iii. 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. 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.

A student who plans to transfer to the University of California system is advised to concentrate on university and college requirements and on available prerequisite and introductory courses required by their major.

Private Colleges and Universities Transfer Information

Private colleges and universities, often called independent institutions, offer a diversity of educational programs and opportunity. Great differences in size, educational purpose, and emphasis exist among independent colleges and universities in the state of California. For information on for private colleges and universities, students should contact the LBCC Counseling department. Additional information on transfer to private college and universities in California can be found at <u>https://aiccu.edu/page/transferstudents</u>.

General Education

Philosophy of General Education

General Education requirements at Long Beach City College provide a broad educational experience that encourages students to explore various areas of human inquiry and equips them with a range of intellectual and practical skills to succeed in a rapidly-changing world. As the foundation of life-long learning, these requirements expose students to the principles, methods, values and thought processes employed in different disciplines and impart a strong sense of the social and ethical responsibilities associated with being civic-minded, informed and engaged global citizens.

The awarding of an Associate degree represents more than an accumulation of units. It symbolizes a successful attempt on the part of the college to lead students through patterns of learning experiences designed to develop certain capabilities and insights. Among these are the ability to think and to communicate clearly and effectively both orally and in writing, to use quantitative reasoning skills, to understand the modes of inquiry of the major disciplines, to be aware of other cultures and time periods, to appreciate the contributions and struggles of various communities and ethnic groups within the United States, to achieve insights gained through experience in thinking about ethical issues, and to develop the capacity for self-understanding.

Institutional Student Learning Outcomes (ISLOs)

LBCC's commitment to excellence in student learning incorporates the following institutional outcomes for the educational process. ILOs are statements that define the knowledge, skills, and perspectives acquired by students who satisfy the college's GE requirements. In alignment with LBCC's mission and values, students will be able to do the following upon completion of the LBCC highquality educational programs:

- Appreciate and interpret a range of cultural expression in the arts and humanities to generate useful and original ideas.
- 2. Effectively communicate with, and respond to, varied audiences in written, spoken, signed, or artistic forms.
- Demonstrate critical thinking, problem-solving, and diagnostics skills with an understanding of research, science, as well as information literacy and quantitative reasoning.
- 4. Critically and ethically engage in global and local issues with sensitivity to the diversity of individuals, groups, and cultures.
- Demonstrate the skills required to successfully enter and advance in the workforce, fulfill one's educational goals, and make lifestyle choices that promote personal well-being.

General Education Patterns & General Education Certification

The conditions that define LBCC's GE philosophy include the Mission Statement as found in this catalog, Title 5 and the Chancellor's Office specific requirements as interpreted by the Office of Academic Services, Executive Order 1100 from the California State University (CSU) System, and the Intersegmental GE Transfer Curriculum (IGETC) requirements, and yearly updated notes, that define the University of California (UC) and CSU common core curriculum for GE. These six sources have limited and shaped GE at LBCC using a strategy known as the A, B, C GE Plan.

The A, B, and C Plans define and distribute GE courses to meet associate degree requirements while Plans B and C prepare students for transfer to the UC and CSU systems.

The most current GE Plans (A, B, C) are posted online at <u>https://www.lbcc.edu/post/general-education-patterns</u> for reference.

The strategy behind the A, B, and C Plans is to introduce students to the various disciplines identified in the definition of GE 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 allows LBCC to certify students before they transfer.

The GE certification process lies at the heart of Plan B and C of the A, B, and C Plans.

GE certification is defined as a process by which LBCC verifies that a student has completed all the lowerdivision GE courses that are required by the CSU or UC system. The CSU certification process identifies 39 units prescribed by Executive Order 1100, 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 GE certification occurs, LBCC is in compliance with Executive Order 1100 and the list of instructions found in the IGETC Notes. In both cases, once GE certification has occurred, LBCC transfer students know that their lowerdivision GE requirements have been met, and that the receiving CSU or UC schools will not review these units.

The associate degree is comprised of two major components: a GE pattern and a major field of preparation.

A transfer program is comprised of three major components: admission requirements, a GE pattern, and a major field of preparation.

Students have three GE patterns (Plan A, B, and C) from which to choose but are strongly encouraged to consult with a counselor for assistance in selecting the GE pattern that is most appropriate for their educational goals. Under **Plan A**, a student can complete the GE requirements for an associate degree and may combine that degree with one of LBCC's certificate programs or in some cases prepare for transfer. If a student wants to complete an associate degree and transfer to a B.A. or B.S. program, then the student should follow GE patterns Plan B or Plan C.

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.

Although an associate degree recognizes the completion of lower-division course requirements, it does not guarantee admission eligibility to a four-year college or university. Each student is encouraged to see a counselor early in his or her academic career to establish an educational plan that will meet the student's educational goals.

While a single course might satisfy more than one GE requirement, no course may be counted in more than one GE area. However, courses may be used to satisfy both a GE requirement and a major requirement.

Students should be aware that starting one GE plan does not preclude students from changing to another at a later date. Changing plans is possible with proper counseling.

Plan A: Completion of LBCC GE Requirements

Plan A sets the GE requirements for the associate of arts (A.A.) and associate of science (A.S.) degrees. The minimum GE requirement for the A.A. degree is 25 units, while the minimum GE requirement for the A.S. Degree is 19 units. The unit requirements for these two degrees vary because the associate of science degree accompanies programs that may require higher units in core major requirements. Accordingly, the associate of science is the degree most commonly earned in higher unit academic and career technical education programs.

Students who complete an associate degree and who later choose to transfer must make up the difference in units between Plan A and Plan B or C when they transfer to four-year institutions. However, Plan A is designed so that a student may select courses to meet the associate degree requirements while at the same time completing as many units as possible that are also located on Plan B and Plan C. Hence, all three plans are designed to

complement each other and minimize the total unit load for students.

Plan B: Completion and Certification of California State University GE Breadth

Plan B is designed for students who plan to transfer to a CSU. Some private colleges also accept Plan B General Education, see a counselor for requirements if planning to transfer to private or out-of-state institutions.

To obtain a baccalaureate degree from any of the California State University campuses, students are required to complete a minimum of 48 semester units of GE courses in the following areas: Area A (9 units), Area B (12 units), Area C (12 units), Area D (12 units), and Area E (3 units).

Up to 39 lower-division units may be completed at and certified by California community colleges. The college recommends the pattern of 39 lower-division units as listed in GE 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. Courses that fulfill these CSU requirements do not necessarily meet the requirements for the University of California System.

Plan C: Completion and Certification of University of California and California State University Intersegmental GE Transfer Curriculum

Plan C, the Intersegmental GE Transfer Curriculum (IGETC) is designed for transfer to the UC/CSU systems and the associate degree. Courses acceptable at the University of California are identified as such at the end of each catalog description in the "Courses of Instruction" section of this catalog. A student may transfer up to 70 semester units from LBCC. The Intersegmental Committee of Academic Senates for the combined public university and community college systems in the state of California approves the IGETC, which was first implemented Summer 1991.

- 1. The IGETC is a series of courses that community college students can use to satisfy lower-division GE requirements at any CSU or UC campus.
- 2. The IGETC provides an option to the California State University GE requirements and replaces the University of California transfer core curriculum.
- 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 GE requirements of the CSU or UC prior to transfer. In some cases, students may find advantages in taking other courses at the community college to fulfill CSU's GE requirements or those of a particular UC campus.
- 4. To achieve a non-transfer associate degree with this program, a student must complete a field of concentration and the associate degree GE and proficiency requirements.
- 5. Students must maintain continuous attendance.

Long Beach City College offers degrees and ce	ertificates in the	followin	ng discipli	nes (majo	ors).
Program of Study	Transfer Degree Plan Code	Associate Degree Plan Code	Certificate of Achievement Plan Code	Certificate of Accomplishment Plan Code	Certificate of Competency/ Completion Plan Code
Administration of Justice	AS-T 5504B/C	AA 1800	ACH 3800		
Criminal Forensics				ACC 4019	
Public Services: Transportation Security Administration Associate				ACC 4800	
Security Guard Training					COMP 4801
Advanced Manufacturing Technology		AS 2921	ACH 3921		
Advanced Manufacturing Technology Core Skills			ACH 3922		
Advanced Manufacturing and Design Technology			ACH 3923		
Advanced Transportation Technology		AS 2952	ACH 3952		
Alternative Fuel Vehicles			ACH 3937		
Electric & Hybrid Vehicles			ACH 3938		
American Sign Language and Deaf Studies		AA 1245			
Anthropology	AA-T 5011B/C				
Architectural Design		AS 2908	ACH 3908		
Art		AA 1194			
Art History	AA-T 5015B/C				
Studio Arts	AA-T 5013B/C				
Applied Design in Art: 3D Materials and Processes			ACH 3279		
Jewelry Entrepreneurship			ACH 3280		
Sculptural Design: 3D Materials and Processes			ACH 3281		
Fundamentals of Digital Media Arts				ACC 4194	
Graphic Design				ACC 4195	
Automotive Technology		AS 2941	ACH 3941		
Automotive Engine and Transmission Service			ACH 3939		
Automotive Engine Performance Service			ACH 3940		
Automotive Maintenance Service			ACH 3926		
Automotive Quick Service				ACC 4923	COMP 4924
Baking & Pastry Arts		AS 2142	ACH 3142		
Biological Sciences		AS 2500			
Biology	AS-T 5505B/C				
Business					
Business Administration	AS-T 5502B/C				
Economics	AA-T 5018B/C		ACH 3019		
Business: Accounting		AA 1100	ACH 3100		
Business: General Business		AA 1111			
Business: International Business		AA 1151			
Business: Management		AA 1143	ACH 3143		
Business: Marketing		AA 1153	ACH 3153		
Business: Business Economics				ACC 4145	
Business: Foundations of Accounting				ACC 4200	
Business: Foundations of Business				ACC 4111	
Business: Foundations of International Business				ACC 4151	
Business: Foundations of Management				ACC 4143	
Business: Foundations of Marketing				ACC 4153	
Business: Logistics				ACC 4127	
Business: Money and Banking				ACC 4144	
Foundations of Entrepreneurship				ACC 4203	
Personal Financial Planning				ACC 4202	
Real Estate Broker				ACC 4154	
Real Estate Salesperson				ACC 4115	
Social Media Application Development				ACC 4201	
Business Information Worker		AS 2129	ACH 3129		
Business Digital Literacy				ACC 4130	
Customer Relations Specialist				ACC 4157	
Digital and Social Media				ACC 4156	

Program of Study	Transfer Degree Plan Code	Associate Degree Plan Code	Certificate of Achievement Plan Code	Certificate of Accomplishment Plan Code	Certificate of Competency/ Completion Plan Code
Microsoft Essentials				ACC 4155	
Computer Hardware Repair					COMP 4162
Office Technologies - Microsoft Outlook					COMP 4160
Office Technologies - Microsoft PowerPoint					COMP 4161
Office Technologies - Job Search Skills					COMP 4164
Office Technologies - Microsoft Access					COMP 4165
Office Technologies - Microsoft Excel					COMP 4166
Office Technologies - Microsoft Word					COMP 4167
Child Development: Early Childhood Education	AS-T 5501B/C	AA 1302	ACH 3302		
CDECE: Assistant Teacher				ACC 4055	
CDECE: Associate Teacher				ACC 4056	
CDECE: Family Development				ACC 4052	
CD: Permit Specialization Area- Child Health and Safety				ACC 4059	
CD: Permit Specialization Area- Children with Exceptional Needs				ACC 4060	
CD: Permit Specialization Area- Family Child Care				ACC 4061	
CD: Permit Specialization Area- Infant/Toddler				ACC 4062	
CD: Permit Specialization Area- Early Literacy				ACC 4066	
CD: Permit Specialization Area- Curriculum in Early Childhood Education				ACC 4122	
Family Child Care Management					COMP 4050
Child Development: Special Education Assistant		AA 1310	ACH 3310		
College and Workplace Readiness					
Foundational Skills					COMP 4211
Communication Studies	AA-T 5002B/C				
Computer Aided Design - Mechanical		AS 2913	4 611 2007		
Computer Aided Design - Mechanical, Core Skills			ACH 3907	ACC 4015	
AutoCAD I, Fundamentals				ACC 4015	
AutoCAD II, Advanced				ACC 4016 ACC 4017	
AutoCAD III, Visualization, Rendering, Animation CAD Professional				ACC 4017 ACC 4018	
Computer Science		AS 2119	ACH 3119	ACC 4018	
Android App Developer		AJ 2115	Achiging	ACC 4119	
Computer Security and Networking		AS 2125	ACH 3125	//00 4115	
Cloud Computing		7.0 2120	ACH 3132		
Information Technology Cybersecurity		AS 2105	ACH3105		
Computer Hardware Repair				ACC 4126	
Computer Networking Technician				ACC 4125	
Microsoft Windows Networking Technician				ACC 4086	
Cyber Security			ACH 3106		
UNIX Network Administrator				ACC 4921	
Computer Support Specialist		AS 2123	ACH 3123		
Computer Hardware Repair				ACC 4126	
Customer Relations Specialist				ACC 4157	
Computer Technology		AS 2126	ACH 3126		
Computer Information Competency					COMP 4128
Construction Technology		AS 2948	ACH 3948		
Construction Apprenticeship Readiness			ACH 3953		COMP 4953
Home Remodeling			ACH 3949		COMP 4163
Forklift Fundamentals					COMP 4954
Counseling and Student Development					
Adult Learning Skills					COMP 4400
Social Competency Skills					COMP 4401
Transitioning to Higher Learning					COMP 4402
Culinary Arts		AS 2147	ACH 3147		
Dance		AA 1260			

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Program of Study	Transfer Degree Plan Code	Associate Degree Plan Code	Certificate of Achievement Plan Code	Certificate of Accomplishment Plan Code	Certificate of Competency/ Completion Plan Code
Database Management		AS 2127	ACH 3127		
Database Administrator Specialist				ACC 4080	
SQL Programmer Specialist				ACC 4158	
Diagnostic Medical Imaging (Radiologic Technology)		AS 2612	ACH 3612		
Computed Tomography				ACC 4045	
Magnetic Resonance Imaging Technologist				ACC 4613	
Digital Design and Publication		AA 1023	ACH 3023		
Digital Media Arts					
Photography Digital Media: Advanced Production			ACH 3256		
Digital Media: Interactive Design and Animation			ACH 3255		
Electrical Technology			/(01/0200		
Electrical Apprenticeship Preparation			ACH 3954		
Electrical Program Preparation					COMP 4955
Network Cabling Specialist				ACC 4089	CONIF 4333
		AS 2991	ACH 3991	ACC 4085	
Electrical Technology, Automation Technician Automation Technician		A3 2991			
		AC 2002	ACH 3931		
Electrical Technology, CISCO Certified Network Installation Associate		AS 2992	ACH 3992		
CISCO Certified Network Installation Associate		46 2002	ACH 3932		
Electrical Technology, General Industrial Electrician		AS 2993	ACH 3993		
General Industrial Electrician			ACH 3933		
Electrical Technology, High Voltage Test Technician		AS 2995	ACH 3995		
High Voltage Test Technician			ACH 3935		
Electrical Technology, Solar Installation and Maintenance		AS 2994	ACH 3994		
Solar Installation and Maintenance			ACH 3934		
Electrical Technology, Traffic Signal Technician		AS 2996	ACH 3996		
Traffic Signal Technician			ACH 3936		
Elementary Teacher Education	AA-T 5019B/C				
Educational Aide I			ACH 3618		
Educational Aide II			ACH 3617		
Engineering		AS 2520			
Engineering Technology		AS 2521	ACH 3521		
Engineering Automation Technology			ACH 3522		
English	AA-T 5003B/C				
English, Creative Writing		AA 1396			
English, Language and Literature		AA 1395			
English as a Second Language					
English for Everyday - Level 1					COMP 4170
English for Everyday - Level 2					COMP 4171
English for Everyday - Level 3					COMP 4172
Reading Skills for ESL Students - Level 1					COMP 4173
Reading Skills for ESL Students - Level 2					COMP 4174
Reading Skills for ESL Students - Level 3					COMP 4175
Workplace Language Skills for ESL, Level 1					COMP 4176
Workplace Language Skills for ESL, Level 2					COMP 4177
Workplace Language Skills for ESL, Level 3					COMP 4178
ESL Literacy					COMP 4182
ESL Reading for Citizenship					COMP 4183
Intermediate Grammar					COMP 4180
Intermediate Oral Skills					COMP 4179
Intermediate Reading and Writing					COMP 4181
Fashion Design		AS 2324	ACH 3324		
Fashion Design: Custom Apparel Design			ACH 3323		
			ACH 3319		
Fashion Design: Patternmaker/Technical Design					

Program of Study	Transfer Degree Plan Code	Associate Degree Plan Code	Certificate of Achievement Plan Code	Certificate of Accomplishment Plan Code	Certificate of Competency/ Completion Plan Code
Fashion Design-Advanced Apparel Construction					COMP 4323
Fashion Design-Industrial Sewing and Factory Production Methods					COMP 4324
Fashion Design-Swimwear Construction					COMP 4325
Fashion Design-Textile Surface Design					COMP 4326
Fashion Merchandising		AS 2326	ACH 3326		
Film		AA 1265			
Digital Filmmaking			ACH 3257		
Film, Television, and Electronic Media	AS-T 5507B/C				
Financial Literacy					COMP 4210
Fire Science		AS 2805	ACH 3805		
Floral Design		AA 1328	ACH 3328		
Foreign Languages		AA 1420			
Spanish	AA-T 5010B/C		ACH 3428		
Japanese	/•	AA 1964	ACH 3426		
French			ACH 3427		
GED Preparation					COMP 4212
GED Preparation Spanish					COMP 4213
Gender and Sexuality Studies			ACH 3429		com 4210
General Education			Ach 3423		
CSU GE Breadth			ACH 3000		
IGETC			ACH 3000		
Geography	AA-T 5009B/C		ACIT SUDI		
Foundations of Geospatial Data and Programming	AA-1 30030/C			ACC 4309	
Geology	AS-T 5503B/C			ACC 4303	
Global Studies	AA-T 5021B/C				
History	AA-T 5021B/C				
Horticulture	AA-1 3000B/C	AS 2962	ACH 3962		
Hospitality Management	AS-T 5140B/C	A3 2302	ACH 3502		
Human Services	A3-1 3140B/C				
Human Services Addiction Studies		AA 1811	ACH 3811		
Human Services Generalist		AA 1811 AA 1810			
Journalism	AA-T 5014B/C	AA 1010	ACH 2010		
Journalism - Newspaper/Magazine	AA-1 5014B/C	A A 1 4 1 1			
		AA 1411			
Journalism - Public Relations		AA 1412 AA 1413			
Journalism - Publications Specialist		AA 1413	A CH 2414		
Photojournalism Vinceiology		AA 1701	ACH 3414		
Kinesiology Athletic Coaching	AA-T 5004B/C	AA 1701		ACC 4704	
Athletic Coaching		AS 2022	ACH 2020	ACC 4701	CON4D 4240
Library Technician		AS 2033	ACH 3030		COMP 4240
Library Technician Patron Facing					COMP 4241
Library Technician Technical Services					COMP 4242
Information Competency		AA 4200			COMP 4243
Linguistics		AA 1398			
Mathematics	AS-T 5500B/C	AS 2530			
Medical Assisting		AC 2000	ACU 2000		
Medical Assisting: Combined Administrative/Clinical		AS 2608	ACH 3608		
Medical Assisting: Administrative Option			ACH 3606		
Medical Assisting: Clinical Option			ACH 3607		
Emergency Medical Technician				ACC 4010	
Medical Insurance Billing				ACC 4044	
Phlebotomy				ACC 4046	
Metal Fabrication Technology		AS 2984			
Metal Fabrication Technology: Advanced Skills			ACH 3983		
Metal Fabrication Technology: Core Skills			ACH 3982		

Program of Study	Transfer Degree Plan Code	Associate Degree Plan Code	Certificate of Achievement Plan Code	Certificate of Accomplishment Plan Code	Certificate of Competency/ Completion Plan Code
Robotic Welding Automation			ACH 3990		
Music	AA-T 5008B/C	AA 1220			
Nursing: LVN to RN Career Ladder		AS 2626	ACH 3626		
Nursing: Registered Nursing		AS 2620			
Nursing: Vocational/Practical		AS 2630	ACH 3630		
Nursing Assistant				ACC 4630	
Home Health Aide				ACC 4631	
Nutrition and Dietetics	AS-T 5506B/C				
Dietetic Service Supervisor	1.0 1 00002, 0	AA 1320	ACH 3320		
Nutrition Assistant		AS 2321			
Formula Room Technician			ACH 3221		
Cake Decorating Techniques			ACH 3221		COMP 4322
Certified Dietary Manager (CDM) Board Exam Preparation					COMP 4322
Philosophy	AA-T 5012B/C				CONT 4520
	AA-1 30120/C	AA 1540			
Physical Sciences		AA 1540 AS 2540			
Physics	AS-T 5540C	A3 2340			
Political Science	AA-T 5005B/C				
Psychology	AA-T 5000B/C				
Public Health Science	AS-T 5508B/C				
Radio/Television Broadcast News	710 1 55005/ 0	AA 1251	ACH 3251		
Radio/Television Performance		AA 1251	ACH 3251		
Radio/Television Producer		AA 1252	ACH 3252		
Radio/Television Multimedia Production		AA 1233	ACH 3255		
Radio/Television Sports Broadcasting		AA 1249	ACH 3234		
Reading		AA 1245	ACH 3243		
Adult Literacy					COMP 4616
Reading in the Health Sciences					COMP 4615
Social Justice Studies	AA-T 5020B/C				CONF 4015
Sociology	AA-T 5020B/C				
TEAS Preparation	AA-1 50010/C				COMP 4214
Theatre Arts: General and Acting Academy					CONIF 4214
Theatre Arts	AA-T 5017B/C				
Theatre - General	AA-1 3017 b/C	AA 1271			
Theatre - Acting Academy		AA 1271 AA 1272			
Show Business - Commercials, Voice-Over, Film Acting		~~ 14/2	ACH 3274		
Web Development		AS 2128	ACH 3274 ACH 3128		
Android App Developer		~5 2120	ACI 3120	ACC 4119	
PHP Web Programmer				ACC 4119 ACC 4129	
Web Developer		AS 2988		ACC 4131	
Welding Technology		A3 2988	ACH 3988		
Advanced Arc Welding (SMAW and FCAW)			ACH 3981		
Gas Tungsten Arc Welding (GTAW)			ACH 3989		
Shielded Metal Arc Welding (SMAW)			ACH 3985		COMP 4093
Basic Arc Welding					COMP 4983

The Course Identification Numbering System (C-ID) is a statewide numbering system that assigns a common number to comparable courses within the California community college system. This number is independent from the course numbers assigned by Long Beach City College or any other community college in the state. When a C-ID number is listed in the catalog students can be assured the course will be accepted in lieu of a course bearing the same C-ID designation at another community college. Many courses with C-ID descriptors may also meet requirements for the Associate Degree for Transfer to the California State University system.

The following table lists the Long Beach City College courses that currently have a C-ID number. As courses are approved for a C-ID, they will be added to this table and noted in the catalog addendum.

LBCC Course	Course Title	C-ID #
ACCTG 1A	Financial Accounting	ACCT 110
ACCTG 1B	Managerial Accounting	ACCT 120
ADJUS 2	Introduction Administration of Justice	AJ 110
ADJUS 3	Introduction to Criminal Procedures	AJ 122
ADJUS 4	Criminal Law	AJ 120
ADJUS 6	Introduction to Evidence	AJ 124
ADJUS 8	Introduction to Investigation	AJ 140
ADJUS 20	Introduction to Corrections	AJ 200
ANAT 1	Human Anatomy	BIOL 110B
ANTHR 1	Physical Anthropology	ANTH 110
ANTHR 1H	Honors Physical Anthropology	ANTH 110
ANTHR 2	Cultural Anthropology	ANTH 120
ANTHR 2H	Honors Cultural Anthropology	ANTH 120
ANTHR 3	Intro to Archaeology	ANTH 150
ANTHR 3H	Honors Intro to Archaeology	ANTH 150
ANTHR 11	Physical Anthropology Lecture and Lab	ANTH 110
ART 1	Art and Civilization	ARTH 110
ART 1H	Honors Art and Civilization	ARTH 110
ART 2	Art and Civilization	ARTH 120
ART 2H	Honors Art and Civilization	ARTH 120
ART 4	African, Oceanic, Native American Art	ARTH 140
ART 5	History of Asian Art	ARTH 130
ART 11	Latin American Art and Architecture	ARTH 145
ART 15	Beginning Drawing	ARTS 110
ART 16	Intermediate Drawing	ARTS 205
ART 19	Life Drawing	ARTS 200
ART 23	Beginning Painting	ARTS 210
ART 31	Fundamentals of Art/Composition & Color	ARTS 100
AUTO 200	Introduction to Automotive Technology	AUTO 110X
AUTO 212	Automotive Automatic Transmission	AUTO 120X
AUTO 213	Automotive Manual Transmission	AUTO 130X
AUTO 214	Automotive Wheel Alignment	AUTO 140X

AUTO 215	Automotive Brake Systems	AUTO 150X
AUTO 217	Automotive Air Conditioning	AUTO 170X
AUTO 270	Intro to Hybrid and Electric Vehicles	ALTF 100X
BCOM 20	Business Writing	BUS 115
BIO 1A +	Biology for Science Majors +	BIOL 135S*
BIO 1B	Biology for Science Majors	
CDECE 19	Health, Safety and Nutrition DS7	ECE 220
CDECE 45	Child & Adolescent Development DS1	CDEV 100
CDECE 47	Human Development	PSY 180
CDECE 48	Child, Family and Community D2	CDEV 110
CDECE 50	Intro to Curriculum for Young Children	ECE 130
CDECE 53	Principles and Practices	ECE 120
CDECE 61	Teaching in a Diverse Society D3	ECE 230
CDECE 66	Observation and Assessment DS3	ECE 200
CDECE 68	Practicum D3	ECE 210
CHEM 1A	General Chemistry	CHEM 110
CHEM 1A +	General Chemistry +	CHEM 120S*
CHEM 1B	General Chemistry	
CHEM 2	Elementary Chemistry	CHEM 101
CHEM 3	Intro to Gen, Organic and Biochemistry	CHEM 102
CHEM 4	Survey of Chemistry and Physics	CHEM 140
CHEM 12A	Organic Chemistry	CHEM 150
CHEM 12A +	Organic Chemistry +	CHEM 160S*
CHEM 12B	Organic Chemistry	
COMM 10	Elements of Public Speaking	COMM 110
COMM 10H	Honors Elements of Public Speaking	COMM 110
COMM 20	Elements of Interpersonal Communication	COMM 130
COMM 25	Elements of Intercultural Communication	COMM 150
COMM 30	Elements of Group Communication	COMM 140
COMM 40	Elements of Communication Theory	COMM 180
COMM 45	Elements of Persuasion	COMM 190
COMM 50	Elements of Oral Interpretation	COMM 170
COMM 60	Elements of Argumentation and Debate	COMM 120
COSA 30	Introduction to Computers	ITIS 120
COSA 50	Intro to IT Concepts and Applications	ITIS 120
COSN 5	Computer Hardware Fundamentals	ITIS 110
COSN 10	Networking Fundamentals	ITIS 150
COSP 7	Programming Concepts and Methodologies	COMP 112, ITIS 110
COSP 36	Systems Analysis and Design	ITIS 140
COSP 38	Database Concepts	ITIS 180

COSS 271	Network Security Fundamentals	ITIS 160
COSS 272	Computer Forensics and Investigation	ITIS 165
COSS 273	Ethical Hacking and Countermeasures	ITIS 164
CS 11	Introduction to Computer Science- C++	COMP 122
CS 21	Introduction to Computer Science-Java	COMP 122
CS 22	Data Structures and Algorithms	COMP 132
CS 31	Introduction to Computer Science-Python	COMP 122
CS 51	Introduction to Computer Architecture	COMP 142
CS 61	Discrete Structures	COMP 152
CULAR 10	Intro to Hospitality	HOSP 100
CULAR 20	App. Food Serv. Sanit in Hotel/Rstr. Mgmt.	HOSP 110
CULAR 30	Cost Control in Hospitality	HOSP 120
CULAR 90	Intro to Culinary Skills & Principles	HOSP 160, HOSP 130
ECON 1	Macro Economic Analysis	ECON 202
ECON 1H	Honors Macro Economic Analysis	ECON 202
ECON 2	Micro Economic Analysis	ECON 201
ECON 2H	Honors Micro Economic Analysis	ECON 201
EDUC 20	Intro to Elementary Classroom Teaching	EDUC 200
ENGL 1	Reading and Composition	ENGL 100
ENGL 1H	Honors Reading and Composition	ENGL 100
ENGL 2	Introduction to Literature/Composition	ENGL 120
ENGL 2H	Honors Introduction to Literature/Comp.	ENGL 120
ENGL 3	Argumentative and Critical Writing	ENGL 105
ENGL 3H	Honors Argumentative & Critical Writing	ENGL 105
ENGL 4	Critical Analysis of Literature	ENGL 110
ENGL 26	Creative Writing 1	ENGL 200
ENGL 41	American Literature I	ENGL 130
ENGL 42	American Literature II	ENGL 135
ENGL 44	World Literature I	ENGL 140
ENGL 44H	Honors World Literature I	ENGL 140
ENGL 45	World Literature II	ENGL 145
ENGL 45H	Honors World Literature II	ENGL 145
ENGL 46	Survey of British Literature I	ENGL 160
ENGL 47	Survey of British Literature II	ENGL 165
FILM 1	Introduction to Film Studies	FTVE 105
FILM 20 +	Fundamentals of Digital Film Production +	FTVE 130*
R_TV 14	Electronic Field Production	
FILM 21	Intermediate Digital Film Production	FTVE 150
GBUS 5	Introduction to Business	BUS 110

GEOG 2	Elements of Cultural Geography	GEOG 120
GEOG 10	Intro to Geographic Information Systems	GEOG 155
GEOG 40	World Regional Geography	GEOG 125
GEOG 48	Geography of California	GEOG 140
GEOL 1	General Physical Geology	GEOL 101
GEOL 1H	Honors General Physical Geology	GEOL 101
GEOL 2	General Geology, Physical	GEOL 100
GEOL 2L	General Geology, Physical Geology Lab	GEOL 100L
GEOL 3	Historical Geology	GEOL 111
GEOL 3H	Honors Historical Geology	GEOL 111
GEOL 10	Earth Science for Educators	GEOL 121
HIST 1A	History of Western (European) Civilization	HIST 170
HIST 1AH	Honors History of Western (European) Civilization	HIST 170
HIST 1B	History of Western (European) Civilization	HIST 180
HIST 1BH	Honors History of Western (European) Civilization	HIST 180
HIST 2B	World History to 1500	HIST 150
HIST 2C	World History Since 1500	HIST 160
HIST 10	Hist./Early America (Colonial-Reconstr)	HIST 130
HIST 10H	Honors Hist/Early Am (Colonial-Reconstr)	HIST 130
HIST 11	Hist./Modern America (Reconstr-Present)	HIST 140
HIST 11H	Honors History/Modern America	HIST 140
HLED 3	Contemporary Health Problems	PHS 100
HLED 10	Human Sexuality	PSY 130
HLED 21	Introduction to Public Health	PHS 101
HLED 22	Health and Social Justice	PHS 102
HLED 24	Drugs, Health and Society	PHS 103
JOURN 5	Introduction to Public Relations	JOUR 150
JOURN 10	Intro to Global Media Communications	JOUR 100
JOURN 20	Beginning Newswriting and Reporting	JOUR 110
JOURN 35	Photojournalism	JOUR 160
JOURN 80	Multimedia Newsroom: News	JOUR 130
JOURN 86 +	Multimedia Editors: Design +	JOUR 131*
JOURN 87 +	Multimedia Editors: Visuals +	
JOURN 88	Multimedia Editor Training: Management	
KINPP 1	Introduction to Kinesiology	KIN 100
KINPP 23	First Aid and Safety	KIN 101
LAW 18	Fundamentals of Business Law	BUS 125
MATH 21A +	Statistics Pathway A +	MATH 110*
MATH 21B	Statistics Pathway B	
MATH 28	Mathematics for Elementary Teaching I	MATH 120

Calculus for Business	MATH 140
First Calculus Course	MATH 210
Honors First Calculus Course	MATH 210
Second Calculus Course	MATH 220
Honors Second Calculus Course	MATH 220
Third Calculus Course	MATH 230
Intro Differential Eqns and Linear Alg	MATH 240, MATH 250,
	MATH 910S
Music Theory I	MUS 120
Music Theory II	MUS 130
Music Theory III	MUS 150
Music Theory II +	MUS 140*
Music Theory III	
Musicianship I	MUS 125
Introduction to Music Theory	MUS 110
Musicianship II	MUS 135
Musicianship III	MUS 145
Long Beach City College Viking Chorale	MUS 180
Long Beach City College Viking Singers	MUS 180
College Symphony Orchestra	MUS 180
Musicianship IV	MUS 155
Jazz Choir +	MUS 180*
Vocal Jazz Ensembles +	
Jazz Big Band +	
Jazz Combos +	
Wind Ensemble	MUS 180
Appreciation of Music	MUS 100
Honors Appreciation of Music	MUS 100
Applied Vocal & Instrumental Music	MUS 160
Nutrition and Life	NUTR 110
Food Selection and Meal Preparation	NUTR 120
Physical Geography	GEOG 110
Physical Geography Lab	GEOG 111
Weather and Climate	GEOG 130
Philosophy of LGBTQIA+ Studies	SJS 130
	PHIL 130
	PHIL 140
	PHIL 100
	PHIL 100
	PHIL 120
	PHIL 120
	SJS 120
	First Calculus CourseHonors First Calculus CourseSecond Calculus CourseHonors Second Calculus CourseThird Calculus CourseIntro Differential Eqns and Linear AlgMusic Theory IMusic Theory IIIMusic Theory IIIMusic Theory IIIMusic Theory IIIMusic Theory IIIMusic anship IIntroduction to Music TheoryMusicianship IIntroduction to Music TheoryMusicianship IIILong Beach City College Viking SingersCollege Symphony OrchestraMusicianship IVJazz Choir +Vocal Jazz Ensembles +Jazz Combos +Wind EnsembleAppreciation of MusicHonors Appreciation of MusicNutrition and LifeFood Selection and Meal PreparationPhysical Geography Lab

PHIL 22Symbolic LogicPHYS 2AGeneral PhysicsPHYS 2BGeneral PhysicsPHYS 3APhysics for Sci. & Eng MechanicsPHYS 3BPhysics for Sci. & Eng E & MPHYS 3CPhysics for Sci. & Eng Modern PhysicsPHYS 4Survey of Chemistry and PhysicsPHYSI 1Human PhysiologyPOLSC 1Introduction to Government	PHIL 210 PHYS 105 PHYS 110 PHYS 205 PHYS 210 PHYS 215 PHYS 140 BIOL 120B POLS 110
PHYS 2BGeneral PhysicsPHYS 3APhysics for Sci. & Eng MechanicsPHYS 3BPhysics for Sci. & Eng E & MPHYS 3CPhysics for Sci. & Eng Modern PhysicsPHYS 4Survey of Chemistry and PhysicsPHYSI 1Human Physiology	PHYS 110 PHYS 205 PHYS 210 PHYS 215 PHYS 140 BIOL 120B
PHYS 3APhysics for Sci. & Eng MechanicsPHYS 3BPhysics for Sci. & Eng E & MPHYS 3CPhysics for Sci. & Eng Modern PhysicsPHYS 4Survey of Chemistry and PhysicsPHYSI 1Human Physiology	PHYS 205 PHYS 210 PHYS 215 PHYS 140 BIOL 120B
PHYS 3BPhysics for Sci. & Eng E & MPHYS 3CPhysics for Sci. & Eng Modern PhysicsPHYS 4Survey of Chemistry and PhysicsPHYSI 1Human Physiology	PHYS 210 PHYS 215 PHYS 140 BIOL 120B
PHYS 3CPhysics for Sci. & Eng Modern PhysicsPHYS 4Survey of Chemistry and PhysicsPHYSI 1Human Physiology	PHYS 215 PHYS 140 BIOL 120B
PHYS 4Survey of Chemistry and PhysicsPHYSI 1Human Physiology	PHYS 140 BIOL 120B
PHYSI 1 Human Physiology	BIOL 120B
POLSC 1 Introduction to Government	POLS 110
POLSC 1H Honors Introduction to Government	POLS 110
POLSC 2 Comparative Government	POLS 130
POLSC 2H Honors Comparative Government	POLS 130
POLSC 4 World Politics	POLS 140
POLSC 4H Honors World Politics	POLS 140
POLSC 10 Introduction to Political Science	POLS 150
POLSC 11 Introduction to Political Theory	POLS 120
PSYCH 1 Introduction to Psychology	PSY 110
PSYCH 1H Honors Introduction to Psychology	PSY 110
PSYCH 2 Research Methods for Psychology	PSY 205B
PSYCH 6 Physiological Foundations of Psychology	PSY 150
PSYCH 11 Social Psychology	PSY 170
R_TV 1 Introduction to Broadcasting	FTVE 100
R_TV 4 + Writing and Production Planning +	FTVE 110*
FILM 40 Introduction to Screenwriting	
R_TV 13 Television Production	FTVE 135
R_TV 21 Radio Production	FTVE 125
R_TV 60 Pro Tools (Digital Audio Recording/Edit)	FTVE 120
SOCIO 1 Introduction to Sociology	SOCI 110
SOCIO 1H Honors Introduction to Sociology	SOCI 110
SOCIO 2 Modern Social Problems	SOCI 115
SOCIO 11 Race & Ethnic Relations in the U.S.	SOCI 150
SOCIO 11H Honors Race & Ethnic Relations in the US	SOCI 150
SOCIO 17 Introduction to Sociology of Gender	SOCI 140
SOCIO 40 Sociology of the Family	SOCI 130
SPAN 1 Elementary Spanish	SPAN 100
SPAN 2 Elementary Spanish	SPAN 110
SPAN 3 Intermediate Spanish	SPAN 200
SPAN 4 Intermediate Spanish	SPAN 210
SPAN 10 Spanish for Spanish Speakers	SPAN 230
SPAN 10H Honors Spanish for Spanish Speakers	SPAN 230

STAT 1	Elementary Statistics	MATH 110
STAT 1H	Honors Elementary Statistics	MATH 110
TART 1	Acting 1-Introduction to Acting	THTR 151
TART 2	Acting 2-Technique & Characterization	THTR 152
TART 25	Introduction to Theatre	THTR 111
TART 39AD	Theatre Practicum	THTR 192
TART 40	Stage Craft	THTR 171
TART 42	Introduction to Stage Lighting	THTR 173
TART 55	Stage Makeup	THTR 175



PROGRAMS OF STUDY

This section contains all of the Programs of Study in alphabetical order, including Program Student Learning Outcomes. This section lists the available Associate Degrees for transfer, local Associate Degrees, Certificates of Achievement, Certificates of Accomplishment, and Certificate of Completion or Competency for each program of study.

ADMINISTRATION OF JUSTICE

The Administration of Justice program 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 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 four-year institutions of higher learning and successful careers in Criminal Justice.

Associate in Science in Administration of Justice for Transfer Degree (A.S.-T) (Plan Code: 5504B/C)

The Associate in Science in Administration of Justice for Transfer Degree is a comprehensive offering of courses created and designed to prepare students for upper division study in any of the criminal justice fields. The Associate in Science in Administration of Justice for Transfer degree provides students with a fundamental knowledge of the history, development, structure, and functions of the American criminal justice system. This degree program also develops students' critical thinking skills through applying the criminological theories, principles, and concepts to address real-life situations in the field; recognizing the importance of legal and ethical behavior in a professional work setting; and analyzing, interpreting, and evaluating criminological justice theories, policies, practices and procedures to develop strategies to control and prevent crime. The Associate in Science in Administration of Justice for Transfer degree prepares students for a seamless transfer to a baccalaureate degree program in Criminal Justice/Criminology in the CSU system.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Explore the history development, structure and functions of the American criminal justice system.
- Recognize the importance and practice of legal and ethical behavior in a professional criminal justice work setting.

REQUIRED CORE C ADJUS 2 ADJUS 4 Subtotal Units	OURSES Introduction to Administration of Justice Criminal Law	UNITS 3 3 6
IN ADDITION, com	plete TWO (2) courses from LIST A:	
LIST A		
ADJUS 3	Introduction to Criminal Procedures	3
ADJUS 6	Introduction to Evidence	3
ADJUS 8	Introduction to Investigation	3
ADJUS 20	Introduction to Corrections	3
Subtotal Units		6
LIST B Any List A course r SOCIO 1/1H STAT 1/1H	Introduction to Sociology/Honors Elementary Statistics/Honors	3 3 4 3
PSYCH 1/1H Subtotal Units	Introduction to Psychology/Honors	3 6-7
TOTAL UNITS		18-19
		10-19

Associate in Arts (A.A.) Degree, Administration of Justice (Plan Code: 1800)

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.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Explore the history, development, structure and functions of the American criminal justice system. •
- Recognize the importance and practice of legal and ethical behavior in a professional criminal justice work setting.

REQUIRED COURSES		UNITS
ADJUS 2	Introduction to Administration of Justice	3
ADJUS 3	Introduction to Criminal Procedures	3
ADJUS 4	Criminal Law	3
ADJUS 5	Community and Human Relations	3
ADJUS 6	Introduction to Evidence	3
ADJUS 8	Introduction to Investigation	3
Subtotal Units		18

IN ADDITION, complete SIX (6) units from the following:

ADJUS 10	Writing for Criminal Justice	3
ADJUS 14	Juvenile Law and Procedures	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 253	Understanding Domestic Violence	3
ADJUS 255	Introduction to Forensics	3
ADJUS 269	Pre-Employment Prep for Law Enforcement	3
PUBAD 1	Introduction to Public Administration	3
Subtotal Units		6
		24
TOTAL UNITS		24

TOTAL UNITS

Certificate of Achievement, Administration of Justice (Plan Code: 3800)

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.

Program Student Learning Outcomes:

Demonstrate an understanding and ability to analyze crime, policies, procedures and the people that shape the • Justice System.

REQUIRED COURSES		UNITS
ADJUS 2	Introduction to Administration of Justice	3
ADJUS 3	Introduction to Criminal Procedures	3
ADJUS 4	Criminal Law	3

ADJUS 5	Community and Human Relations	3
ADJUS 6	Introduction to Evidence	3
Subtotal Units		15
, , ,	plete NINE (9) units from the following:	
ENGL 1	Reading & Composition	4
OR		
ENGL 105	Fundamentals of Writing	4
POLSC 1	Introduction to Government	3
PSYCH 1	Introduction to Psychology	3
SOCIO 1	Introduction to Sociology	3
COMM 10	Elements of Public Speaking	3
COMM 30	Elements of Group Discussion	3
Subtotal Units		9
TOTAL UNITS		24

Certificate of Accomplishment, Criminal Forensics (Plan Code: 4019)

Completion of the Criminal Forensics Program will give students the skills and knowledge needed to become employed as entry level crime scene investigators or evidence collection specialists.

Program Student Learning Outcomes:

• Demonstrate the critical thinking skills that are needed to identify potential evidence, analyze and process a crime scene and establish a chain of custody for all collected evidence.

REQUIRED COURSI	ES	UNITS
ADJUS 6	Introduction to Evidence	3
ADJUS 8	Introduction to Investigation	3
ADJUS 19	Fingerprint Classification & Identification	3
ADJUS 255	Introduction to Forensics	3
Subtotal Units		12
IN ADDITION, com	plete ONE (1) course from 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
Subtotal Units		3
TOTAL UNITS		15

Certificate of Accomplishment, Public Services: Transportation Security Administration Associate (Plan Code: 4800)

Completion of the Transportation Security Administration Associate Certificate will prepare the student for an entry level position in the Transportation Security Administration and aid those already employed in the field in their efforts to advance.

Program Student Learning Outcomes:

• Demonstrate knowledge of plans and programs at federal, state and local levels that reflect the evolving strategic policy issues associated with a statutory and presidential direction for Homeland Security.

REQUIRED COURSES		UNITS
HSA 401	Introduction to Homeland Security	3
HSA 402	Intelligence Analysis / Security Mgmt.	3
HSA 403	Transportation and Border Security	3
TOTAL UNITS		9

Certificate of Completion, Security Guard Training (Plan Code: 4801)

The Security Guard Training noncredit Certificate of Completion is designed for students pursuing employment as a registered security guard or private security officer and shall follow the standards prescribed by section 7583.6(b) of the Business and Professions Code. The certificate will provide the student with the required training for state licensure as a Security Guard through the Bureau of Security and Investigative Services and provides the option for students to take the state mandated licensure exam in class. Upon completion of this training and successfully passing the state exam, the student may apply to the state for licensure as a Security Guard. Licensure is contingent on completing the training, obtaining a passing score on the state exam and a Livescan. This program prepares students for careers in Private and Proprietary Security: Private Security Guard, Loss Prevention/Assets Protection Specialist, Proprietary Security Officer, and Proprietary Investigator.

Program Student Learning Outcomes:

• Demonstrate the skills and knowledge relevant to the position of State Security Officer.

REQUIRED COURS	ES	HOURS
ADJUS 600	Powers of Arrest/Weapons of Destruction	9
ADJUS 601	Public Relations & Liability	9
ADJUS 602	Communication/Observation/Documentation	9
Subtotal Hours		27
IN ADDITION. com	plete EIGHTEEN (18) hours from the following:	
ADJUS 603	Search, Seizure, Scene Preservation	9
ADJUS 604	Officer Safety & First Aid CPR	9
ADJUS 605	Conflict Management & Crowd Control	9
Subtotal Hours		18
TOTAL HOURS		45

ADVANCED MANUFACTURING

Associate in Science (A.S.) Degree, Advanced Manufacturing Technology (Plan Code: 2921)

The Associate in Science in Advanced Manufacturing Technology degree prepares students for transfer to a California State University, and prepares students for careers in aerospace, medical device, automotive aftermarket, and many other advanced manufacturing sectors where machine tool technologies are utilized. Students will learn a variety of valuable skills including print reading, shop math, and CNC machine tool programming. Students will learn inspection techniques using calipers, micrometers, indicators, thread-gaging, and automated measurement equipment, such as, digital heightgages, and indicators. Students will create machine programs using the latest software technologies on the latest CNC machine tool equipment and simulators. The program will provide students with the technical skills need to find employment or advancement in the field of advanced manufacturing/machine tool technology. Students will find jobs or apprenticeships as machine operator, CNC operator, machinist, CNC programmer, or inspector.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate the ability to create and interpret mechanical engineering drawings and specifications.

REQUIRED COURS	ES	UNITS
OSHA 254	OSHA Standards for General Industry	2
ADMT 50	Advanced Manufacturing, Introduction	3
ADMT 200	Advanced Manufacturing Math	3
ADMT 251	Advanced Manufacturing, CNC Mills/Lathes	2
ADMT 252	Advanced Manufacturing, Sheet Metal CNC	2
ADMT 253	Advanced Manufacturing, Capstone	2
CAD 50	Mechanical Drafting, Introduction	2
CAD 51	Mechanical Drafting, Intermediate	2
CAD 52	CAD/CAM	2
CAD 60	Geometric Dimensioning and Tolerancing	3
ETEC 10	Introduction to Engineering Technology	1
ETEC 60	Material Science for Engineering Tech	3
WELD 50	Introduction to Welding	4
TOTAL UNITS		31

Certificate of Achievement, Advanced Manufacturing Technology (Plan Code: 3921)

The Certificate of Achievement in Advanced Manufacturing Technology program prepares students for careers in aerospace, medical device, automotive aftermarket, and many other advanced manufacturing sectors where machine tool technologies are utilized. Students will learn a variety of valuable skills including print reading, shop math, and CNC machine tool programming. Students will learn inspection techniques using calipers, micrometers, indicators, thread-gaging, and automated measurement equipment, such as, digital height-gages, and indicators. Students will create machine programs using the latest software technologies on the latest CNC machine tool equipment and simulators. The program is designed to be complete in 2 semesters and will provide students with the technical skills needed to find employment or advancement in the field of advanced manufacturing/machine tool technology.

Program Student Learning Outcomes:

• Demonstrate the ability to create and interpret mechanical engineering drawings and specifications.

REQUIRED COURSES—Complete the **31 units** of required courses as listed in the Associate Degree in Advanced Manufacturing Technology major requirements.

Certificate of Achievement, Advanced Manufacturing Technology Core Skills (Plan Code: 3922)

The Advanced Manufacturing Technology department will be offering several Certificates of Achievement to provide students the knowledge and training they need to enter a specialized career or enhance their skills for advancement in their job. Coursework completed while earning a Certificate can also be applied to the Associate Degree. The Advanced

Manufacturing Technology Core Skills Certificate provides a student the necessary skills for an entry level/internship opportunity in the advanced manufacturing field with a focus on manufacturing.

Program Student Learning Outcomes:

- Demonstrate the ability to create and interpret mechanical engineering drawings and specifications.
- Create Computer Numerical Control (CNC) machine tool programs utilizing CNC programming technologies.

REQUIRED COURSES		UNITS
OSHA 254	OSHA Standards for General Industry	2
ADMT 50	Advanced Manufacturing, Introduction	3
ADMT 200	Advanced Manufacturing Math	3
CAD 50	Mechanical Drafting, Introduction	2
ETEC 60	Material Science for Engineering Tech	3
WELD 50	Introduction to Welding	4
TOTAL UNITS		17

Certificate of Achievement, Advanced Manufacturing and Design Technology (Plan Code: 3923)

The Advanced Manufacturing Technology department will be offering several Certificates of Achievement to provide students the knowledge and training they need to enter a specialized career or enhance their skills for advancement in their job. Coursework completed while earning a Certificate can also be applied to the Associate Degree. The Advanced Manufacturing and Design Technology certificate provides a student the necessary skills for an entry level/internship opportunity in the advanced manufacturing field with a focus on Computer Aided Design, and Computer Aided Manufacturing.

Program Student Learning Outcomes:

• Demonstrate the ability to create and interpret mechanical engineering drawings and specifications.

REQUIRED COURSES		UNITS
CAD 50	Mechanical Drafting, Introduction	2
CAD 51	Mechanical Drafting, Intermediate	2
CAD 52	CAD/CAM	2
CAD 60	Geometric Dimensioning and Tolerancing	3
ETEC 60	Material Science for Engineering Tech	3
CAD 202	AutoCAD Fundamentals	2
CAD 220	Introduction to CATIA	2
TOTAL UNITS		16

ADVANCED TRANSPORTATION

Associate in Science (A.S.) Degree, Advanced Transportation Technology (Plan Code: 2952)

The Advanced Transportation Technology Associate in Science Degree is designed to provide students with the knowledge and skills needed for today's technicians, service writers, and parts support specialists. The degree is designed to successfully prepare students for employment with entry and mid-level technician, service writer, and parts support specialist positions at dealerships, the ports of Long Beach and Los Angeles, and transit. The program

focuses on the industry standard of fix-it-right scores by providing students with the opportunity to develop skills and resolve real-world customer concerns.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Students will analyze and demonstrate technical knowledge and practical skills to properly and accurately diagnose and repair advanced propulsion systems used in electric, hybrid, and Compressed Natural Gas vehicles.

REQUIRED COURS	ES	UNITS
AUTO 200	Introduction to Automotive Technology	3
AUTO 201	Automotive Lubrication Service	1
AUTO 202	Automotive Tire Service	1
AUTO 203	Automotive Brake Inspection	1
AUTO 230	Automotive Computer Systems	3
AUTO 216	Automotive Electrical Systems	3
AUTO 270	Intro to Hybrid and Electric Vehicles	3
AUTO 271	Introduction to Alternative Fuel Systems	3
AUTO 280	Light Duty Electric Vehicles	3
AUTO 281	Light Duty Hybrid Vehicles	3
AUTO 282	Light Duty Alternative Fuels	3
AUTO 283	Light Duty EV Powertrain Diagnostics	3
AUTO 292	Heavy Duty Alternative Fuels	3
TOTAL UNITS		33

TOTAL UNITS

Certificate of Achievement, Advanced Transportation Technology (Plan Code: 3952)

The Advanced Transportation Technology Certificate of Achievement is designed to provide students with the knowledge and skills needed for today's technicians, service writers, and parts support specialists. The degree is designed to successfully prepare students for employment with entry and mid-level technician, service writer, and parts support specialist positions at dealerships, the ports of Long Beach and Los Angeles, and transit. The program focuses on the industry standard of fix-it-right scores by providing students with the opportunity to develop skills and resolve real-world customer concerns.

Program Student Learning Outcomes:

Analyze and demonstrate technical knowledge and practical skills to properly and accurately diagnose and repair • advanced propulsion systems used in electric, hybrid, and Compressed Natural Gas vehicles.

REQUIRED COURSES—Complete the 33 units of required courses as listed in the Associate Degree in Advanced Transportation Technology major requirements.

Certificate of Achievement, Alternative Fuel Vehicles (Plan Code: 3937)

The Alternative Fuel Vehicles Certificate of Achievement is designed to provide students with the knowledge and skills needed for today's technicians, service writers, and parts support specialists. The degree is designed to successfully prepare students for employment with entry and mid-level technician, service writer, and parts support specialist positions at dealerships, the ports of Long Beach and Los Angeles, and transit. The program focuses on the industry

standard of fix-it-right scores by providing students with the opportunity to develop skills and resolve real-world customer concerns.

Program Student Learning Outcomes:

- Define the pros and cons of various types of propulsion systems of alternative fueled vehicles.
- Formulate diagnostic strategies for resolving vehicle concerns.

REQUIRED COURSES		UNITS
AUTO 200	Introduction to Automotive Technology	3
AUTO 211	Automotive Engine Repair	3
AUTO 230	Automotive Computer Systems	3
AUTO 271	Introduction to Alternative Fuel Systems	3
AUTO 282	Light Duty Alternative Fuels	3
AUTO 292	Heavy Duty Alternative Fuels	3
TOTAL UNITS		18

Certificate of Achievement, Electric & Hybrid Vehicles (Plan Code: 3938)

The Electric & Hybrid Vehicles Certificate of Achievement is designed to provide students with the knowledge and skills needed for today's technicians, service writers, and parts support specialists. The degree is designed to successfully prepare students for employment with entry and mid-level technician, service writer, and parts support specialist positions at automotive dealerships, the ports of Long Beach and Los Angeles, and transit. The program focuses on the industry standard of fix-it-right scores by providing students with the opportunity to develop skills and resolve real-world customer concerns.

Program Student Learning Outcomes:

- Define the pros and cons of various types of propulsion systems to include electric vehicles and hybrid fueled vehicles.
- Formulate diagnostic strategies for resolving vehicle concerns.

REQUIRED COURSES		UNITS
AUTO 200	Introduction to Automotive Technology	3
AUTO 216	Automotive Electrical Systems	3
AUTO 230	Automotive Computer Systems	3
AUTO 270	Intro to Hybrid and Electric Vehicles	3
AUTO 280	Light Duty Electric Vehicles	3
AUTO 281	Light Duty Hybrid Vehicles	3
TOTAL UNITS		18

ALCOHOL AND ADDICTION STUDIES

See Human Services, Alcohol and Addiction Studies

AMERICAN SIGN LANGUAGE AND DEAF STUDIES

Associate in Arts (A.A.) Degree, American Sign Language and Deaf Studies (Plan Code: 1245)

The Associate in Arts in ASL and Deaf Studies aligns with the college's mission to provide a transfer path for success. It prepares students to communicate effectively in ASL in a wide range of situations in both personal and professional settings. Students will broaden their cultural awareness and gain sensitivity to Deaf cultures. The skills obtained through this degree promote equitable learning and achievement and will prepare a diverse population of students for transfer to a four-year college or university.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Interpret between spoken English and American Sign Language(ASL).
- Understand specialized vocabulary that enable the student to function effectively as an interpreter for the Deaf.
- Understand ethical practices that enable the student to function effectively as an interpreter for the Deaf.

REQUIRED COURSES		UNITS
ASL 1	American Sign Language 1	4
ASL 2	American Sign Language 2	4
ASL 3	American Sign Language 3	4
ASL 4	American Sign Language 4	4
ASL 24	American Deaf Studies	3
LING 1/1H	Linguistics 1/Honors	3
TOTAL UNITS		22

ANTHROPOLOGY

The mission of this program is to present anthropology as the scientific global study of the biological and cultural aspects of humankind throughout time. This program will also prepare students to transfer successfully to a baccalaureate program at the university level. Students will be given the opportunity to apply theory and gain hands-on experience to explore the broad perspective of the diversity of interests that can be accommodated by pursuing a degree in anthropology. Training in anthropology will prepare students for any career that takes place in a multicultural setting.

Associate in Arts in Anthropology for Transfer Degree (A.A.-T) (Plan Code: 5011B/C)

Anthropology is the global study of humankind throughout time. It is concerned with both the biological and cultural aspects of humankind. Anthropology is a holistic discipline that explores the entire nature of humanity from different perspectives. Cultural anthropology, or ethnology, focuses on an in-depth, long-term, total immersion into another culture through the fieldwork methodology of participant observation. Archaeology studies humankind in the past and seeks to understand past cultures through the study of the material remains, or artifacts, those past societies have left behind. Physical anthropology explores humankind from a biological perspective, including our origin as a species and our evolution as a species, within the broader framework of culture. Anthropology is a unique framework that allows us to study humankind in its entirety. We are living in an increasingly globalized world and Anthropology will provide the preparation for anyone who is preparing for a career that involves the interface between cultures and will enable one to succeed in that career.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze and describe the major concepts, theoretical perspectives, and empirical evidence on the cultural and/or biological evolution of the human species.
- Utilize the scientific method to analyze the advantages and limitations of various anthropological research methodologies used to address our understanding of the cultural and/or biological evolution of the human species.

REQUIRED CORE C	OURSES	UNITS
ANTHR 1/1H OR	Physical Anthropology/Honors	3
ANTHR 11	Physical Anthropology Lecture and Lab	5
ANTHR 2/2H	Cultural Anthropology/Honors	3
ANTHR 3/3H	Intro to Archaeology/Honors	3
Subtotal Units		9-11
IN ADDITION, comp LIST A	blete ONE (1) course from LIST A:	
STAT 1/1H	Elementary Statistics/Honors	4
MATH 21B	Statistics Pathway B	5
ANTHR 4	Linguistic Anthropology	3
Subtotal Units		3-5
IN ADDITION, comp LIST B	blete THREE to FIVE (3-5) courses from LIST B:	
Any LIST A course r	not already used	3-5
Area 2. Sciences		
ANAT 1	Human Anatomy	4
GEOL 1/1H	General Physical Geology/Honors	4.5
GEOG 10	Intro to Geographic Information Systems	3
Subtotal Units		3-5
IN ADDITION, complete ONE (1) course from LIST C:		
LIST C	3 course not already used	3-5
ANTHR 10	Magic, Witchcraft and Religion	3-5
ANTHR 20	Archaeological Field Survey Methods	3
PHIL 14	Philosophy of Religion	3
GEOG 2	Elements of Cultural Geography	3
SOCIO 1/1H	Introduction to Sociology/Honors	3
SOCIO 11	Race & Ethnicity Relations in the U.S.	3
COMM 25	Elements of Intercultural Communication	3
Subtotal Units		3-5
TOTAL UNITS		18-24.5

ARCHITECTURAL DESIGN

The Architectural Design program creates an educational environment where students can achieve their individual goals by providing the necessary knowledge and skills to successfully transfer to a bachelor program in Architecture or a related field. The program provides students with instruction in the latest technologies, industry standards, and significant industry trends.

Associate in Science (A.S.) Degree, Architectural Design (Plan Code: 2908)

This degree is designed to provide foundational knowledge of the practice of architecture with the option of maximizing the number of lower division transfer units. This Associate Degree will prepare students for a design-related career, and appropriate course selection will facilitate transfer to a professional degree program.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze program transfer requirements to prepare for successful transfer to a university level architectural and/or other environmental design degree program.
- Acquire the professional attitude and desire for life-long learning and stay current with advanced technologies.
- Demonstrate the technical knowledge and communication skills necessary to identify, articulate, and solve problems and perform tasks pertaining to the built environment.

REQUIRED COURSES		UNITS
ARCHT 20	Visual Literacy and Civilization	3
ARCHT 21	Design Methods and Theories	3
ARCHT 61	Architectural Design Studio I	4
ARCHT 62	Architectural Design Studio II	4
ARCHT 65	Architectural Design Studio III	4
ARCHT 66	Architectural Design Studio IV	4
ARCHT 71	Design/Build Studio	4
ARCHT 80	Arch. History, Ancient to Medieval	3
ARCHT 81	Arch. History, Medieval to Renaissance	3
ARCHT 91	Environmental Controls Systems	3
ARCHT 92	Building Construction	3
ARCHT 93	Structures 1	3
ARCHT 255	Visualization and Communication	3
TOTAL UNITS		44
RECOMMENDED b	out not required courses:	
MATH 40	Trigonometry	3
ENGL 3/3H	Argumentative and Critical Writing/Honors	4
PHYS 2A	General Physics	4.5
COMM 60	Elements of Argumentation and Debate	3

Certificate of Achievement, Architectural Design (Plan Code: 3908)

This Certificate of Achievement will prepare students for an entry-level position in a variety of design profession settings and may serve as a foundation for specialization.

Program Student Learning Outcomes:

• Acquire the professional attitude and desire for life-long learning and stay current with advanced technologies.

REQUIRED COURSES		UNITS
ARCHT 20	Visual Literacy and Civilization	3
ARCHT 61	Architectural Design Studio I	4
ARCHT 62	Architectural Design Studio II	4
ARCHT 80	Arch. History, Ancient to Medieval	3
ARCHT 81	Arch. History, Medieval to Renaissance	3
ARCHT 255	Visualization and Communication	3
COMM 60	Elements of Argumentation and Debate	3
ENGL 3/3H	Argumentative and Critical Writing/Honors	4
MATH 40	Trigonometry	3
PHYS 2A	General Physics	4.5
TOTAL UNITS		34.5

ART

The Visual and Media Arts Department provides 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, an associate degree, a studio art certificate or vocational certificate. Students can pursue their individual interest in the visual arts through an array of foundational 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 through the production, analysis, and exhibition of artwork.

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, the creativity fostered by the arts becomes all the more important. Creative thinking and critical analysis are essential 21st century skills to achieve academic success in all areas and employment opportunities in a wide variety of professions.

Associate in Arts in Art History for Transfer Degree (A.A.-T) (Plan Code: 5015B/C)

The Associate in Arts in Art History for Transfer degree is designed to provide students the opportunity to complete the lower-division major and general education preparation for transferring to a California public university as an Art History major. The study of Art History is an interdisciplinary exploration of visual culture from the earliest human history to the present in a global context. Students learn to analyze works of art and articulate the historical, social, and aesthetic functions of art. Coursework familiarizes students with Western and non-Western art, theory, research methodology, media and technique to build a foundation for future interpretive and analytical work. The goal of this curriculum is a comprehensive preparation for further academic study and ultimately a baccalaureate degree for those considering professional careers and/or admission to a graduate program.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate knowledge of significant examples of the visual arts and art historical methodology.
- Analyze and describe works of art based on how they communicate meaning visually.
- Utilize critical thinking to evaluate and discuss works of art in a variety of historical and cultural contexts.

REQUIRED CORE COURSES Complete NINE (9) units:		UNITS
ART 1/1H	Art and Civilization/Honors	3
ART 2/2H	Art and Civilization/Honors	3
ART 15	Beginning Drawing	3
Subtotal Units		9
		5
IN ADDITION, com LIST A	olete ONE (1) course from LIST A:	
ART 4	African, Oceanic, Native American Art	3
ART 5	History of Asian Art	3
Subtotal Units		3
IN ADDITION, com	plete THREE (3) units from LIST B:	
LIST B		
ART 19	Life Drawing	3
ART 30	Fundamentals of Art/Volume, Plane & Form	3
ART 31	Fundamentals of Art/Composition & Color	3
ART 41	Introduction to Computer Graphics	3
ART 50	Ceramics I	3
ART 60	Beginning Sculpture	3
ART 80	Elements of Photography	3
ART 81	Introduction to Fine Art Photography	3
PHOT 31	Intro to B&W Photography Darkroom	4
ART 23	Beginning Painting	3
Subtotal Units		3
IN ADDITION, com LIST C	olete ONE (1) course from LIST C:	
	a surra nat already used	2.4
ART 3	3 course not already used Modern & Contemporary Art	3-4 3
ART 3 ART 11	Latin American Art and Architecture	3
PHOT 10	History of Photography	3
Subtotal Units		3
		5
TOTAL UNITS		18

Associate in Arts in Studio Arts for Transfer Degree (A.A.-T) (Plan Code: 5013B/C)

The Associate in Arts in Studio Arts for Transfer degree is designed to prepare students for a major in Studio Arts at fouryear institutions. The Studio Art offerings provide a solid foundation in a wide range of visual art disciplines including drawing, painting, photography, digital media, printmaking, jewelry, metal work, sculpture, and ceramics. The Art program provides students with instruction in the visual and media arts whether beginning, advanced or professional. Students pursue their individual interests in Studio Art disciplines at the university level through an array of foundation courses establishing a technical and critical understanding of visual and media language. These courses lead to the development of personal creative expression or to specialized multidisciplinary instruction within the creative and applied arts through the production, analysis, and exhibition of visual and media art works. As a result, students in the Studio Arts Program create and refine their portfolios to meet academic and professional standards as they develop as artists.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Create original artwork using a foundation of skills, craft, traditional and digital technologies.

		UNITS
ART 2/2H	Art and Civilization/Honors	3
ART 15	Beginning Drawing	3
ART 30	Fundamentals of Art/Volume, Plane & Form	3
ART 31	Fundamentals of Art/Composition & Color	3
Subtotal Units		12
IN ADDITION, com LIST A	plete ONE (1) course from LIST A:	
ART 1/1H	Art and Civilization/Honors	3
ART 4	African, Oceanic, Native American Art	3
ART 5	History of Asian Art	3
Subtotal Units		3
IN ADDITION, com	plete THREE (3) courses from LIST B:	
LIST B		
ART 16	Intermediate Drawing	3
OR		
ART 19	Life Drawing	3
ART 23	Beginning Painting	3
ART 41	Introduction to Computer Graphics	3
ART 50	Ceramics I	3
ART 60	Beginning Sculpture	4
ART 70	Printmaking, Silkscreen	3
PHOT 31 OR	Intro to B&W Photography Darkroom	4
PHOT 32	Introduction to Digital Photography	4
ART 34	Applied Design/Crafts	3
OR		-
ART 35	Jewelry/Metalsmithing I	3
ART 71	Printmaking, Intaglio	3
OR		
ART 81	Introduction to Fine Art Photography	3
Subtotal Units		9-12
TOTAL UNITS		24-27

Associate in Arts (A.A.) Degree, Art (Plan Code: 1194)

This degree 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.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- 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. ٠
- Analyze, interpret, and exercise critical judgment in the evaluation of visual art forms.

REQUIREL	O COURSES

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 35	Jewelry/Metalsmithing 1	3
ART 41	Introduction to Computer Graphics	3
ART 50	Ceramics I	3
ART 60	Beginning Sculpture	3
ART 81	Introduction to Fine Art Photography	3
ART 292	Professional Skills for Artists	3
Subtotal Units		36

IN ADDITION, complete ONE of the following Options:

APPLIED DESIGN OPTION

Complete SEVEN (7) units from the following:		
ART 34	Applied Design/Crafts	3
ART 36	Jewelry/Metalsmithing 2	4
ART 38	Jewelry/Metalsmithing 4	4
ART 51	Ceramics II	3
ART 52	Ceramics III	3
ART 53	Ceramics IV	3
Subtotal Units		7

ART HISTORY OPTION

Complete SIX (6) u	nits from the following:	
ART 3	Modern & Contemporary Art	3
ART 4	African, Oceanic, Native American Art	3
ART 5	History of Asian Art	3
ART 11	Latin American Art and Architecture	3
ART 12	Gallery and Exhibition Design	3
PHOT 10	History of Photography	3
Subtotal Units	6	

COMPUTER ART OPTION

Complete SIX (6) u	nits from the following:
ART 42	Introduction to Multimedia Design
ART 43	Beginning Website Design
ART 44	Introduction to Graphic Design
ART 45	Computer Art for Drawing & Painting
ART 46	Computer Art & Design in 3D Modeling
ART 47	Computer Animation & Multimedia
ART 48	Computer Art & Design for TV & Video
ART 55	Intermediate Graphic Design
Subtotal Units	

3

3

3

3

6

	INTING OPTION	
Complete SIX (6) ur	nits from the following:	
ART 16	Intermediate Drawing	3
ART 19	Life Drawing	3
ART 24	Watercolor, Beginning	3
ART 26	Figure Painting	3
ART 27	Intermediate Painting	3
ART 28	Portrait Drawing and Painting	3
Subtotal Units		6
DESIGN OPTION		
Complete SIX (6) ur	nits from the following:	
ART 32	Intermediate Design	3
ART 43	Beginning Website Design	3
ART 44	Introduction to Graphic Design	3
ART 55	Intermediate Graphic Design	3
ART 56	Introduction to Typography	1.5
Subtotal Units		6
ILLUSTRATION OPT	TION	
Complete SIX (6) ur	nits from the following:	
ART 17	Illustration I	3
ART 18	Illustration II	3
ART 19	Life Drawing	3
ART 26	Figure Painting	3
ART 45	Computer Art for Drawing & Painting	3
Subtotal Units		6
PRINTMAKING OP	ΓΙΟΝ	
Complete SIX (6) ur	nits from the following:	
ART 70	Printmaking, Silkscreen	3
	Printmaking, Silkscreen Printmaking, Intaglio	3 3
ART 70	-	
ART 70 ART 71	Printmaking, Intaglio	3
ART 70 ART 71 ART 72	Printmaking, Intaglio Advanced Printmaking	3 3
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO	Printmaking, Intaglio Advanced Printmaking	3 3
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO	Printmaking, Intaglio Advanced Printmaking N) units from the following:	3 3
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture	3 3 6
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture	3 3 6 4
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture	3 3 6 4 4
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62 ART 63	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture Metal Casting Sculpture	3 3 6 4 4 4
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62 ART 63 Subtotal Units FINE ART PHOTOG	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture Metal Casting Sculpture	3 3 6 4 4 4
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62 ART 63 Subtotal Units FINE ART PHOTOG Complete SEVEN (7	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture Metal Casting Sculpture RAPHY OPTION () units from the following:	3 3 6 4 4 4 8
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62 ART 63 Subtotal Units FINE ART PHOTOG Complete SEVEN (7 PHOT 31	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture Metal Casting Sculpture RAPHY OPTION ') units from the following: Intro to B&W Photography Darkroom	3 3 6 4 4 4
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62 ART 63 Subtotal Units FINE ART PHOTOGI Complete SEVEN (7 PHOT 31 PHOT 32	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture Metal Casting Sculpture RAPHY OPTION) units from the following: Intro to B&W Photography Darkroom Introduction to Digital Photography	3 3 6 4 4 4 8 8
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62 ART 63 Subtotal Units FINE ART PHOTOG Complete SEVEN (7 PHOT 31 PHOT 32 PHOT 33	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture Metal Casting Sculpture RAPHY OPTION) units from the following: Intro to B&W Photography Darkroom Introduction to Digital Photography Photography Studio Lighting	3 3 6 4 4 4 8 8 4 4 4 4
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62 ART 63 Subtotal Units FINE ART PHOTOG Complete SEVEN (7 PHOT 31 PHOT 32 PHOT 33 PHOT 35	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture Metal Casting Sculpture RAPHY OPTION) units from the following: Intro to B&W Photography Darkroom Introduction to Digital Photography Photography Studio Lighting Photography for Publication	3 3 6 4 4 4 8 8 4 4 4 3
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62 ART 63 Subtotal Units FINE ART PHOTOG Complete SEVEN (7 PHOT 31 PHOT 32 PHOT 33 PHOT 35 PHOT 37	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture Metal Casting Sculpture RAPHY OPTION) units from the following: Intro to B&W Photography Darkroom Introduction to Digital Photography Photography Studio Lighting Photography for Publication Portrait Photography	3 3 6 4 4 4 4 8 8 4 4 3 4
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62 ART 63 Subtotal Units FINE ART PHOTOG Complete SEVEN (7 PHOT 31 PHOT 32 PHOT 33 PHOT 35 PHOT 37 PHOT 39	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture Metal Casting Sculpture RAPHY OPTION) units from the following: Intro to B&W Photography Darkroom Introduction to Digital Photography Photography Studio Lighting Photography for Publication Portrait Photography Photography on Location	3 3 6 4 4 4 4 8 8 4 4 3 4 3 4 3
ART 70 ART 71 ART 72 Subtotal Units SCULPTURE OPTIO Complete EIGHT (8 ART 61 ART 62 ART 63 Subtotal Units FINE ART PHOTOG Complete SEVEN (7 PHOT 31 PHOT 32 PHOT 33 PHOT 35 PHOT 37	Printmaking, Intaglio Advanced Printmaking N) units from the following: Intermediate Sculpture Metal Fabrication Sculpture Metal Casting Sculpture RAPHY OPTION) units from the following: Intro to B&W Photography Darkroom Introduction to Digital Photography Photography Studio Lighting Photography for Publication Portrait Photography	3 3 6 4 4 4 4 8 8 4 4 3 4

PHOT 43 PHOT 281	Photoshop and Digital Image Management Photography Laboratory	3 1
Subtotal Units		7
TOTAL UNITS		42-44

Certificate of Achievement, Applied Design in Art: 3D Materials and Processes (Plan Code 3279)

The Applied Design in Art: 3D Materials and Processes Certificate of Achievement encompasses the fundamental skills needed for three dimensional materials and processes in Art. The certificate is designed to successfully prepare students to apply aesthetic principles and technical skills to wood, metal, clay and paper/fiber for the construction of functional objects. It encompasses the breadth of design, content and production through essential skills such as fabrication, forming, casting, material study, and techniques of creative problem solving. It also builds an initial Applied Design portfolio for transfer to 4-year programs.

Program Student Learning Outcomes:

• Demonstrate knowledge of processes and design skillsets related to applied design.

REQUIRED COURSES		UNITS
ART 30	Fundamentals of Art/Volume, Plane & Form	3
ART 34	Applied Design/Crafts	3
ART 35	Jewelry/Metalsmithing 1	3
ART 65	Introduction to Wood	3
ART 50	Ceramics I	3
ART 41	Introduction to Computer Graphics	3
TOTAL UNITS		18

Certificate of Achievement, Jewelry Entrepreneurship (Plan Code: 3280)

The Jewelry Entrepreneurship Certificate of Achievement is designed to expand the skills needed for careers in jewelry including studio jewelers, bench jeweler, and independent jewelry design and small metals fabrication contractors. The certificate is designed to successfully prepare students for independent studio practice, self-marketing, client-based work or commissions, employment in industrial manufacturing, and contracting for other artists. There is a focus on professional development as well as studio and arts business management. It also builds a robust portfolio for transfer to 4-year programs. There are no material fees in the courses associated with this program, however students will be expected to purchase their own metal and supplies.

Program Student Learning Outcomes:

• Demonstrate knowledge of processes and design skillsets related to jewelry production, professional skills and business management.

REQUIRED COURSES	
Jewelry/Metalsmithing 1	3
Jewelry/Metalsmithing 2	4
Jewelry/Metalsmithing 3	4
Jewelry/Metalsmithing 4	4
Special Projects in Art	1.5
Studio Projects in Art	3
	Jewelry/Metalsmithing 1 Jewelry/Metalsmithing 2 Jewelry/Metalsmithing 3 Jewelry/Metalsmithing 4 Special Projects in Art

TOTAL UNITS		18.5
MGMT 80	Small Business Entrepreneurship	3
ART 292 OR	Professional Skills for Artists	3

Certificate of Achievement, Sculptural Design: 3D Materials and Processes (Plan Code: 3281)

The Sculptural Design: 3D Materials and Processes Certificate of Achievement encompasses the fundamental skills needed for three dimensional materials and processes in Art. The certificate is designed to successfully prepare students to apply aesthetic principles and technical skills to modeling, mold-making, casting, carving, wood construction, and metal fabrication using both traditional and non-traditional sculptural materials and processes. It encompasses the breadth of design, content and production through essential skills such as fabrication, forming, casting, material study, and techniques of creative problem solving. It also builds an initial sculpture portfolio for transfer to 4-year programs. There are no material fees in the courses associated with this program, however students will be expected to purchase their own metal and supplies.

Program Student Learning Outcomes:

• Demonstrate knowledge of processes and design skillsets as related to sculpture and 3D design.

REQUIRED COURSES		UNITS
ART 30	Fundamentals of Art/Volume, Plane & Form	3
ART 60	Beginning Sculpture	3
ART 61	Intermediate Sculpture	4
ART 62	Metal Fabrication Sculpture	4
ART 65	Introduction to Wood	3
TOTAL UNITS		17

Certificate of Accomplishment, Fundamentals of Digital Media Arts (Plan Code: 4194)

The Fundamentals of Digital Media Arts Program is designed to prepare students for a multidisciplinary work environment while focusing on the creative uses of digital technology. This interdisciplinary program gives students the training and skills to meet the constantly changing demands from today's digital media marketplace.

- Produce professional quality digital media projects that demonstrates comprehension of visual design, digital production skills and an understanding of multi-disciplinary collaboration.
- Analyze, interpret, and exercise critical judgment in the evaluation of Digital Media Projects.

REQUIRED COURSES		UNITS
FILM 20	Fundamentals of Digital Film Production	3
OR		
R_TV 14	Electronic Field Production	3
R_TV 216	Non-Linear Video & Film Editing	2.5
PHOT 32	Introduction to Digital Photography	4
ART 41	Introduction to Computer Graphics	3
DMA 201	Introduction to Digital Media Arts	3
TOTAL UNITS		15.5

Certificate of Accomplishment, Graphic Design (Plan Code: 4195)

The Graphic Design certificate brings together core graphic design classes into a sequence that prepare students for entry level design positions for websites, production print publications and new developments in graphic design. This certificate is designed for students that are starting graphic design and for designers that are updating to current tools and techniques in basic design skills, typography, screen-based design and print production techniques.

Program Student Learning Outcomes:

• Produce professional quality graphic design projects that demonstrate comprehension of visual design, digital production skills and an understanding of multi-disciplinary collaboration.

REQUIRED COURSES		UNITS
ART 31	Fundamentals of Art/Composition & Color	3
ART 41	Introduction to Computer Graphics	3
ART 43	Beginning Website Design	3
ART 44	Introduction to Graphic Design	3
ART 55	Intermediate Graphic Design	3
ART 56	Introduction to Typography	1.5
TOTAL UNITS		16.5

AUTOMOTIVE TECHNOLOGY

Associate in Science (A.S.) Degree, Automotive Technology (Plan Code: 2941)

The Associate in Science in Automotive Technology instruction will emphasize an introductory general automotive repair, engine repair, automatic and manual drivetrain, wheel alignment, brake systems, electrical system, air conditioning, fuel systems, and automotive light diesel technology. Upon completion students are prepared for all nine areas of the National Automotive Service Excellence (ASE) certifications tests and also will receive one year of work experience toward ASE work experience qualification. The A.S. Degree in Automotive Technology signifies that students are ready for entry level automotive positions and will signify that students have mastered good ethics and workmanship in an auto shop environment.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Evaluate and identify faults in automotive performance components and perform service to factory specifications.

REQUIRED COURSES		UNITS
AUTO 200	Introduction to Automotive Technology	3
AUTO 211	Automotive Engine Repair	3
AUTO 212	Automotive Automatic Transmission	3
AUTO 213	Automotive Manual Transmission	3
AUTO 214	Automotive Wheel Alignment	3
AUTO 215	Automotive Brake Systems	3
AUTO 216	Automotive Electrical Systems	3
AUTO 217	Automotive Air Conditioning	3
AUTO 218	Automotive Fuel Systems	3
AUTO 219	Automotive Light Diesel Engines	3
TOTAL UNITS		30

Certificate of Achievement, Automotive Technology (Plan Code: 3941)

The Certificate of Achievement in Automotive Technology will emphasize an introductory general automotive repair, engine repair, automatic and manual drivetrain, wheel alignment, brake systems, electrical system, air conditioning, fuel systems, and automotive light diesel technology. Upon completion students are prepared for all nine areas of the National Automotive Service Excellence (ASE) certifications tests and also will receive one year of work experience toward ASE work experience qualification. The certificate in Automotive Technology signifies that students are ready for entry level automotive positions and will signify that students have mastered good ethics and workmanship in an auto shop environment.

Program Student Learning Outcomes:

• Evaluate and identify faults in automotive performance components and perform service to factory specifications.

REQUIRED COURSES—Complete the **30 units** of required courses as listed in the Associate Degree in Automotive Technology major requirements.

Certificate of Achievement, Automotive Engine and Transmission Service (Plan Code: 3939)

This Certificate of Achievement in Automotive Engine and Transmission Service prepares students for entry-level employment in the automotive industry such as a service attendant, novice mechanic, assistant technician, mechanic's helper, pre-delivery (PDI) technician, installer, service technician, engine and drive trains service technician, and/or automotive related position in the industry.

Program Student Learning Outcomes:

• Describe and demonstrate automotive shop practice safety and automotive systems' operation fundamentals in order to apply practical service and diagnostic during automotive servicing and repair.

REQUIRED COURSES		UNITS
ADMT 50	Advanced Manufacturing, Introduction	3
AUTO 200	Introduction to Automotive Technology	3
AUTO 201	Automotive Lubrication Service	1
AUTO 211	Automotive Engine Repair	3
AUTO 212	Automotive Automatic Transmission	3
AUTO 213	Automotive Manual Transmission	3
TOTAL UNITS		16

Certificate of Achievement, Automotive Engine Performance Service (Plan Code: 3940)

This Certificate of Achievement in Automotive Engine Performance Service prepares students for entry-level employment in the automotive industry such as a service attendant, novice mechanic, assistant technician, mechanic's helper, pre-delivery (PDI) technician, installer, service technician, engine performance (fuel and electrical) service technician, and/or automotive related position in the industry.

Program Student Learning Outcomes:

• Evaluate and identify faults in automotive engine performance components and perform service to factory specifications.

REQUIRED COURSES		UNITS
AUTO 200	Introduction to Automotive Technology	3
AUTO 216	Automotive Electrical Systems	3
AUTO 218	Automotive Fuel Systems	3
AUTO 219	Automotive Light Diesel Technology	3
TOTAL UNITS		12

Certificate of Achievement, Automotive Maintenance Service (Plan Code: 3926)

This Certificate of Achievement in Automotive Maintenance Service prepares students for entry-level employment in the automotive industry such as a service attendant, novice mechanic, assistant technician, mechanic's helper, pre-delivery (PDI) technician, installer, service technician, brake technician, and/or automotive related position in the industry.

Program Student Learning Outcomes:

• Evaluate and identify faults in automotive undercar and underhood components and perform service to factory specifications.

REQUIRED COURSES		UNITS
AUTO 200	Introduction to Automotive Technology	3
AUTO 214	Automotive Wheel Alignment	3
AUTO 215	Automotive Brake Systems	3
AUTO 216	Automotive Electrical Systems	3
AUTO 217	Automotive Air Conditioning	3
AUTO 218	Automotive Fuel Systems	3
TOTAL UNITS		18

Certificate of Accomplishment, Automotive Quick Service (Plan Code: 4923)

This Certificate of Accomplishment in Automotive Quick Serve prepares students with skills and knowledge to obtain entry level employment as Quick Service Technicians in the automotive industry, and/or automotive related position in the industry.

Program Student Learning Outcomes:

• Evaluate and prepare vehicles for quick service according to the manufacturer procedures.

REQUIRED COURSES		UNITS
AUTO 200	Introduction to Automotive Technology	3
AUTO 201	Automotive Lubrication Service	1
AUTO 202	Automotive Tire Service	1
AUTO 203	Automotive Brake Inspection	1
TOTAL UNITS		6

Certificate of Completion, Automotive Quick Service (Plan Code: 4924)

This program provides instruction in Automotive Quick Service Repair. Topics include composing an estimate for lubrication service, tire repair and brake inspection, communicate effectively with customers, demonstrate proper service procedures, including management of hazardous waste, and research potential job markets in the automotive service industry.

Program Student Learning Outcomes:

• Evaluate and prepare vehicles for quick service according to the manufacturer procedures.

REQUIRED COURSES		HOURS
AUTO 600	Introduction to Automotive Technology	90
AUTO 601	Automotive Lubrication Service	36
AUTO 602	Automotive Tire Service	36
AUTO 603	Automotive Brake Inspection	36
TOTAL HOURS		198

BAKING & PASTRY ARTS

The Baking and Pastry Arts program provides students with the fundamental knowledge of Baking and Pastry principles and techniques to prepare our graduates for employment in Retail, Hotel, and Resort Bakery and Pastry kitchens.

Associate in Science (A.S.) Degree, Baking & Pastry Arts (Plan Code: 2142)

The Baking and Pastry Arts Associate in Science Degree provides students with the fundamental knowledge of Baking and Pastry principles and techniques to prepare our graduates for employment in Retail, Hotel, and Resort Bakery and Pastry kitchens. The associate degree will provide students with a broad-based general education which will prepare them for global citizenry.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Apply production planning, cost control measures, and safety and sanitation procedures to prepare for a career in baking and pastry.
- Apply and demonstrate advanced baking and pastry skills and techniques in the areas of bread, Viennoiserie, pastries, and cakes.

REQUIRED COURSES		UNITS
CULAR 10	Intro to Hospitality	3
CULAR 20	App. Food Serv Sanit In Hotel/Rstr Mgmt	2
CULAR 250	Culinary Skills for Baking Students	2
BAKE 241	Baking Skills and Principles	5
BAKE 242	Pastry Skills and Principles	5
BAKE 243A	Advanced Bakery Operations	4
BAKE 243B	Advanced Bakery Practicum	4
BAKE 246	Specialty Cakes and French Pastries	1.5
BAKE 247	Cake Decorating	1.5

BAKE 258	Artisan Breads	1.5
BAKE 259	Viennese Pastries	1.5
Subtotal Units		31

IN ADDITION, complete ONE AND ONE HALF (1.5) units from the following:

BAKE 253	Chocolate, Sugar and Confections	1.5
BAKE 255	Plated Desserts	1.5
BAKE 256	Holiday Desserts	1.5
TOTAL UNITS		32.5
RECOMMENDED b LEARN 11/11H OR	ut not required courses: Learning and Academic Strategies/Honors	3
COUNS 49	College Study Techniques	2
MATH 825	Culinary Math	1
COSA 1	Computer and Information Competency	1

Certificate of Achievement, Baking & Pastry Arts (Plan Code: 3142)

The Baking and Pastry Arts Certificate of Achievement provides students with the fundamental knowledge of Baking and Pastry principles and techniques to prepare our graduates for employment in Retail, Hotel, and Resort Bakery and Pastry kitchens.

Program Student Learning Outcomes:

- Apply and demonstrate basic baking and pastry skills for entry-level employment.
- Prepare and assemble essential baking and pastry items while applying kitchen safety and sanitation rules
 according to industry standards.

REQUIRED COURSES		UNITS
CULAR 10	Intro to Hospitality	3
CULAR 20	App. Food Serv Sanit In Hotel/Rstr Mgmt	2
BAKE 241	Baking Skills and Principles	5
BAKE 242	Pastry Skills and Principles	5
BAKE 243A	Advanced Bakery Operations	4
BAKE 243B	Advanced Bakery Practicum	4
CULAR 250	Culinary Skills for Baking Students	2
TOTAL UNITS		25

BIOLOGICAL SCIENCES

The department mission includes (1) transfer preparation; (2) preparing students to attain an associate degree; and (3) helping students satisfy biological science prerequisite for various programs at LBCC and other colleges. Students who have matriculated through the programs will be exposed to the scientific method, gain an appreciation for the environment, and become aware of the vital roles of science in our lives. The courses will also help students to become better 'consumers' of scientific information.

Associate in Science (A.S.) Degree, Biological Sciences (Plan Code: 2500)

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.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Assimilate information from various sources and apply critical thinking to form evidence-based conclusions (scientific method) to issues in the realm of biology, health, and as a consumer in society.
- Demonstrate an understanding of all levels of organismal biology such as morphological, physiological, and developmental.
- Demonstrate knowledge of the importance of the diversity of organisms on earth and their ecological and evolutionary relationships including human impact on other organisms (or the reciprocal) and ecosystems.

REQUIRED COURSES		UNITS
CHEM 2	Elementary Chemistry	4.5
OR		
CHEM 3	Intro to Gen, Organic and Biochemistry	5
LEARN 11/11H	Learning and Academic Strategies/Honors	3
OR		
READ 84	Analytical Reading	3
STAT 1/1H	Elementary Statistics/Honors	4
Subtotal Units		11.5-12

IN ADDITION, complete ONE Area of Emphasis below:

Marine Science Emphasis

BIO 11	Environmental Problems of Man	3
BIO 20/20H	Marine Biology/Honors	4
BIO 22	The Marine Environment	3
GEOL 2	General Geology, Physical	3
PGEOG 2	Weather and Climate	3
Subtotal Units		16

Terrestrial and Sustainability Emphasis

BIO 5	Plant Biology	4
BIO 11	Environmental Problems of Man	3
BIO 30	Wildlife Biology	4
GEOL 1/1H	General Physical Geology/Honors	4.5
GEOG 10	Intro to Geographic Information Systems	3
PGEOG 2	Weather and Climate	3
Subtotal Units		21.5

Health Science Emphasis

	•		
Complete 9-14 units from the following:			
ANAT 1	Human Anatomy	4	
ANAT 41	Anatomy & Physiology	5	
BIO 2	General Microbiology	5	
BIO 60	Human Biology 1	4	
PHYSI 1	Human Physiology	5	

TOTAL UNITS		26.5-35
Subtotal Units		15-23
PSYCH 1/1H	Introduction to Psychology/Honors	3
COMM 25	Elements of Intercultural Communication	3
BIO 61	Human Biology 2	3
BIO 25	Biology and Society	3
AH 60	Medical Terminology	3
IN ADDITION, co	mplete 6-9 units from the following:	

BIOLOGY

Associate in Science in Biology for Transfer Degree (A.S.-T) (Plan Code: 5505B/C)

This Associate in Science in Biology for Transfer program provides students with a foundation in core principals of biological sciences, including scientific reasoning, cell/molecular biology, principles of genetics, evolution, organismal, and ecology in preparation for transfer to a baccalaureate degree program in biology at a university. Students at the four-year university have the opportunity to pursue a bachelor's degree specializing in areas such as anatomy and physiology, botany, cell and molecular biology, clinical science, ecology, environmental biology, field biology, marine biology, microbiology, organismal biology, or zoology. A bachelor's degree in biology may lead to opportunities in graduate/professional school or careers in research, biotechnology, dentistry, pharmacy, medicine, and veterinary medicine among many other diverse fields.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Utilize the components of the scientific method to evaluate appropriately designed experiments, analyze scientific data to formulate reasonable conclusions, and properly communicate the results.
- Recognize and evaluate the relationship between structure and function at all levels: molecular, cellular, and organismal (morphological, physiological, and developmental).
- Apply ecological and evolutionary concepts to explain the diversity and interrelationships of organisms on earth, including human impact on the biosphere.

REQUIRED CORE C	OURSES	UNITS
BIO 1A	Biology for Science Majors	5
BIO 1B	Biology for Science Majors	5
Subtotal Units		10
IN ADDITION, com LIST A	plete all courses from LIST A:	
CHEM 1A	General Chemistry	5.5
CHEM 1B	General Chemistry	5.5
MATH 60	First Calculus Course	5
PHYS 2A	General Physics	4.5
PHYS 2B	General Physics	4.5
Subtotal Units		25
TOTAL UNITS		35
RECOMMMENDED	but not required courses:	
CHEM 12A	Organic Chemistry	5.5
CHEM 12B	Organic Chemistry	5.5

MATH 70	Second Calculus Course	5
PHYS 3A	Physics for Sci & Eng-Mechanics	4.5
PHYS 3B	Physics for Sci & Eng-E&M	4.5

BUSINESS

The Business program equips our students, through a variety of academic disciplines and in a manner consistent with the mission of the college, with the knowledge and skills needed to transfer to a baccalaureate-degree granting institution, to enter the work force, to update workplace skills, or to achieve personal enrichment in a lifelong-learning environment. Students develop high-level knowledge and critical-thinking skills that will prepare them to make informed and ethically-responsible decisions in a complex global environment.

Associate in Science in Business Administration for Transfer Degree (A.S.-T) (Plan Code: 5502B/C)

The Associate in Science in Business Administration for Transfer degree offers a variety of business and general education courses. Students who complete this degree will receive priority admission with junior status into the CSU system.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Identify and describe the nature, environment and role of accounting and its importance as the language of business.
- Recognize the primary elements and language of economics as they relate to organizational behavior.

REQUIRED CORE C	OURSES	UNITS
ACCTG 1A	Financial Accounting	5
ACCTG 1B	Managerial Accounting	5
ECON 1/1H	Macro Economic Analysis/Honors	3
ECON 2/2H	Micro Economic Analysis/Honors	3
LAW 18	Fundamentals of Business Law	3
Subtotal Units		19
	plate ONE (1) source from LIST A	
LIST A	plete ONE (1) course from LIST A:	
	Elementary Statistics / Honors	4
STAT 1/1H	Elementary Statistics/Honors Calculus for Business	-
MATH 47	Calculus for Business	3
Subtotal Units		3-4
IN ADDITION, com	plete TWO (2) courses from LIST B:	
LIST B		
Any LIST A course	not already used	3-4
COSA 30	Introduction to Computers	3
OR		
COSA 50	Introduction to IT Concepts and Applications	4
GBUS 5	Introduction to Business	3
Subtotal Units		6-7
TOTAL UNITS		28-30

Nine (9) units of the Business Administration for Transfer coursework can be applied to the CSU-GE Breadth or IGETC patterns.

Associate in Arts in Economics for Transfer Degree (A.A.-T) (Plan Code: 5018B/C)

The economics major provides systematic knowledge of the nature and scope of economics with a diverse academic regimen and practical application. The study of economic concepts and theories with concentrations that include: Macroeconomic Analysis, Microeconomic Analysis, Contemporary Economic Issues, and The Global Economy. In addition, an economics major is preparation for general education, good citizenship and literate participation in a market-oriented life. The Economics program (A.A.-T in Economics) offers students a comprehensive education in the theoretical as well as practical applications of the discipline. The degree offers a variety of economics and business courses that aid in familiarizing students with the diverse subfields in the area of Economics. The mission of this program is to provide a definitive course of study in economics to a diverse population of students, ultimately preparing those students for transfer to university. This program in economics is a diverse academic, theoretical and practical, major that is applicable to everyday life, which further fulfills the general requirements of the California State University transfer system.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Comprehend the primary elements and language of economics.
- Solve complex problems using equations, graphs and technical skills.

REQUIRED CORE C	COURSES	UNITS
ECON 1/1H	Macro Economic Analysis/Honors	3
ECON 2/2H	Micro Economic Analysis/Honors	3
STAT 1/1H	Elementary Statistics/Honors	4
MATH 60	First Calculus Course	5
Subtotal Units		15
	plete THREE to FIVE (3-5) units from LIST A:	
LIST A		_
MATH 70	Second Calculus Course	5
ACCTG 1A	Financial Accounting	5
ACCTG 1B	Managerial Accounting	5
BCOM 20	Business Writing	3
Subtotal Units		3-5
IN ADDITION, com LIST B	plete THREE to FIVE (3-5) units from LIST B:	
Any LIST A course	not already used	3-5
ECON 4	Contemporary Economic Issues	3
ECON 5	The Global Economy	3
Subtotal Units		3-5
TOTAL UNITS		21-25

Associate in Arts (A.A.) Degree, Business: Emphasis in Concentration

The Associate Degree in Business consists of the prescribed GE requirements, as well as the following 5 concentrations: accounting, general business, international business, management and marketing. Students earning this Associate Degree may be prepared to 1) transfer to a baccalaureate-degree granting institution in the field of their concentration and/ or 2) enter into the workforce at an entry-level position relating to their field of emphasis.

REQUIRED COURSES		UNITS
(ALL CONCENTRA	TIONS)	
GBUS 5	Introduction to Business	3
LAW 18	Fundamentals of Business Law	3
*ACCTG 1A	Financial Accounting	5
OR		
ACCTG 200	Introduction to Accounting	3
*For Accounting concentration, students must take ACCTG 1A.		
Subtotal Units		9-11
IN ADDITION, complete ONE area of concentration from the following:		

Business: Accounting Concentration (Plan Code: 1100)

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Identify and describe the nature, environment, and role of accounting and its importance as the language of business.
- Analyze the economic activities of business entities to calculate and prepare appropriate financial statements.

REQUIRED COURS	ES	UNITS
ACCTG 1B	Managerial Accounting	5
ACCTG 205	Fundamentals of Tax	3
ACCTG 228	Computerized Gen Ledger Account Systems	2
ACCTG 229	Spreadsheet Accounting	3
ACCTG 230	Quickbooks Accounting	2
Subtotal Units		15
LAW 19 ACCTG 200 ECON 1/1H ECON 2/2H	plete SIX (6) units from the following: Legal Environment of Business Introduction to Accounting Macro Economic Analysis/Honors Micro Economic Analysis/Honors	3 3 3 3
Subtotal Units		6
TOTAL UNITS		32

Business: General Business Concentration (Plan Code: 1111)

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate a strong, general understanding of the language and theories of large and small businesses.
- Identify the role and challenges that ethics, social responsibility, and diversity play across business structures.

REQUIRED COURSES		UNITS
IBUS 1	Introduction to International Business	3
MGMT 49	Introduction to Management	3
OR		
MKTG 47	Essentials of Marketing	3
LAW 19	Legal Environment of Business	3
OR		

GBUS 25	Digital and Social Media	3
GBUS 10	Personal Finance	3
Subtotal Units		12
IN ADDITION, com	olete SIX (6) units from the following:	
ECON 1/1H	Macro Economic Analysis/Honors	3
ECON 4	Contemporary Economic Issues	3
Subtotal Units		6
TOTAL UNITS		27-29

Business: International Business Concentration (Plan Code: 1151)

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate a strong understanding of the language and theories of international business across global markets.
- Identify the role and challenges that ethics, social responsibility, and diversity play across international business structures.

REQUIRED COURSES		UNITS
IBUS 1	Introduction to International Business	3
IBUS 20	Export-Import Business Practices	3
IBUS 60	International Business Law	3
IBUS 75	Introduction to Logistics	3
IBUS 52	Introduction to Supply Chain Management	3
Subtotal Units		15
IN ADDITION, com	plete SIX (6) units from the following:	
LAW 19	Legal Environment of Business	3
ECON 1/1H	Macro Economic Analysis/Honors	3
ECON 5	The Global Economy	3
Subtotal Units		6
TOTAL UNITS		30-32

Business: Management Concentration (Plan Code: 1143)

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate a strong understanding of the theories and roles that Management functions play within an organization.
- Identify the role that ethics, social responsibility and diversity play in planning and implementing organizational goals.

REQUIRED COURSES		UNITS
MGMT 49	Introduction to Management	3
OR		
MGMT 50	Human Resource Management	3
MGMT 58	Leadership and Supervision	3
MGMT 60	Management & Organizational Behavior	3

MGMT 80 Subtotal Units	Small Business Entrepreneurship	3 12
IN ADDITION, Com	plete SIX (6) units from the following:	
LAW 19	Legal Environment of Business	3
ECON 2/2H	Micro Economic Analysis/Honors	3
GBUS 10	Personal Finance	3
Subtotal Units		6
TOTAL UNITS		27-29

Business: Marketing Concentration (Plan Code: 1153)

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate a strong understanding of the language and theories of the marketing functions within an organization.
- Identify the role that ethics, social responsibility, and diversity play in developing and implementing marketing objectives.

REQUIRED COURSI	ES	UNITS
MKTG 40	Salesmanship	3
MKTG 41	Marketing Communications	3
MKTG 47	Essentials of Marketing	3
GBUS 25	Digital and Social Media	3
Subtotal Units		12
IN ADDITION, comp LAW 19 ECON 2/2H Subtotal Units	blete SIX (6) units from the following: Legal Environment of Business Micro Economic Analysis/Honors	3 3 6
TOTAL UNITS		27-29

Certificate of Achievement, Business: Accounting (Plan Code: 3100)

The Certificate of Achievement in Accounting will prepare a student for advancement into a baccalaureate-degree granting institution and/or for an entry-level position in the accounting function of a small/medium-sized business.

- Identify and describe the nature, environment, and role of accounting and its importance as the language of business.
- Analyze the economic activities of business entities in order to calculate and prepare appropriate financial statements.

REQUIRED COURSES		UNITS
GBUS 5	Introduction to Business	3
LAW 18	Fundamentals of Business Law	3
ACCTG 1A OR	Financial Accounting	5
ACCTG 200	Introduction to Accounting	3

ACCTG 1B	Managerial Accounting	5
ACCTG 205	Fundamentals of Tax	3
ACCTG 228	Computerized Gen Ledger Account Systems	2
ACCTG 229	Spreadsheet Accounting	3
ACCTG 230	Quickbooks Accounting	2
TOTAL UNITS		24-26

Certificate of Achievement, Business: General Business (Plan Code: 3111)

The Certificate of Achievement in General Business will prepare a student for advancement into business school at a baccalaureate-degree granting institution and/or for an entry-level position in a variety of functional areas in a small/medium-sized business.

Program Student Learning Outcomes:

- Demonstrate a strong, general understanding of the language and theories of large and small businesses.
- Identify the role and challenges that ethics, social responsibility, and diversity play across business structures.

REQUIRED COURS	UNITS	
GBUS 5	Introduction to Business	3
LAW 18	Fundamentals of Business Law	3
ACCTG 1A	Financial Accounting	5
OR		
ACCTG 200	Introduction to Accounting	3
IBUS 1	Introduction to International Business	3
MGMT 49	Introduction to Management	3
OR		
MKTG 47	Essentials of Marketing	3
LAW 19	Legal Environment of Business	3
OR		
GBUS 25	Digital and Social Media	3
GBUS 10	Personal Finance	3
TOTAL UNITS		21-23

Certificate of Achievement, Business: International Business (Plan Code: 3151)

The Certificate of Achievement in International Business will prepare a student for advancement into business school at a baccalaureate-degree granting institution and/or for an entry-level position in a small/medium-sized business involved in international trade and logistics.

- Demonstrate a strong understanding of the language and theories of international business across global markets.
- Identify the role and challenges that ethics, social responsibility, and diversity play across international business structures.

REQUIRED COURSES		UNITS
GBUS 5	Introduction to Business	3
LAW 18	Fundamentals of Business Law	3
ACCTG 1A	Financial Accounting	5
OR		

ACCTG 200	Introduction to Accounting	3
IBUS 1	Introduction to International Business	3
IBUS 20	Export-Import Business Practices	3
IBUS 60	International Business Law	3
IBUS 75	Introduction to Logistics	3
IBUS 52	Introduction to Supply Chain Management	3
TOTAL UNITS		24-26

Certificate of Achievement, Business: Management (Plan Code: 3143)

The Certificate of Achievement in Management will prepare a student for advancement into business school at a baccalaureate-degree granting institution and/or for an entry-level supervisory or human resources position in a small/medium-sized business. Additionally, a student may be able to develop the skills needed for an entrepreneurial startup.

Program Student Learning Outcomes:

- Demonstrate a strong understanding of the theories and roles that Management functions play within an organization.
- Identify the role that ethics, social responsibility, and diversity play in planning and implementing organizational goals.

REQUIRED COURSES		UNITS
GBUS 5	Introduction to Business	3
LAW 18	Fundamentals of Business Law	3
ACCTG 1A	Financial Accounting	5
OR		
ACCTG 200	Introduction to Accounting	3
MGMT 49	Introduction to Management	3
OR		
MGMT 50	Human Resource Management	3
MGMT 58	Leadership and Supervision	3
MGMT 60	Management & Organizational Behavior	3
MGMT 80	Small Business Entrepreneurship	3
TOTAL UNITS		21-23

Certificate of Achievement, Business: Marketing (Plan Code: 3153)

The Certificate of Achievement in Marketing will prepare a student for advancement into business school at a baccalaureate-degree granting institution and/or for an entry-level position in a small/medium-sized business, in functions such as sales, advertising or product development.

- Demonstrate a strong understanding of the language and theories of the marketing functions within an organization.
- Identify the role that ethics, social responsibility, and diversity play in developing and implementing marketing objectives.

REQUIRED COURSES		UNITS
GBUS 5	Introduction to Business	3
LAW 18	Fundamentals of Business Law	3
ACCTG 1A	Financial Accounting	5
OR		
ACCTG 200	Introduction to Accounting	3
MKTG 40	Salesmanship	3
MKTG 41	Marketing Communications	3
MKTG 47	Essentials of Marketing	3
GBUS 25	Digital and Social Media	3
TOTAL UNITS		21-23

Certificate of Achievement, Economics (Plan Code: 3019)

The Certificate of Achievement in Economics will prepare a student for continuation to an A.A.-T in Economics or for advancement into a school of business or economics at a baccalaureate-degree granting institution and/or for an entry-level position in local government, school system or institution of higher learning, banking, or business as a research assistant or analyst.

Program Student Learning Outcomes:

- Develop a basic understanding of economics, accounting, and business law concepts.
- Apply a knowledge of economics to solve complex problems using equations, graphs, and technical skills.

REQUIRED COURS	ES		UNITS	
	ECON 1/1H	Macro Economic Analysis/	Honors	3
ECON 2/2H	Micro Economic Analysis,	/Honors	3	
ECON 4	Contemporary Economic	Issues	3	
OR				
ECON 5	The Global Economy		3	
LAW 18	Fundamentals of Busines	is Law	3	
OR				
LAW 19	Legal Environment of Bus	siness	3	
ACCTG 1A	Financial Accounting		5	
	OR			
ACCTG 1B	Managerial Accounting		5	
TOTAL UNITS			17	

Certificate of Accomplishment, Business: Foundations of Accounting (Plan Code: 4200)

The Certificate of Accomplishment may prepare a student to continue toward the attainment of an Associate Degree and/or for an entry-level position in the accounting function of a small/medium-sized business.

- Describe and use the structure of accounting statements as the language of business.
- Recognize the importance of ethical and moral considerations in a business and the credibility of the financial information.

REQUIRED COURS	UNITS	
ACCTG 1A	Financial Accounting	5
ACCTG 1B	Managerial Accounting	5
ACCTG 228	Computer Gen Ledger Account Systems	2
OR		
ACCTG 229	Spreadsheet Accounting	3
OR		
ACCTG 230	Quickbooks Accounting	2
TOTAL UNITS		12-13

Certificate of Accomplishment, Business: Foundations of Business (Plan Code: 4111)

The Certificate of Accomplishment in Business – Foundations of Business may prepare a student to continue toward the attainment of an Associate Degree and/or for an entry-level position in a variety of functional areas in a small/medium-sized business.

Program Student Learning Outcomes:

- Describe the basic terminologies and fundamental concepts of organizations.
- Recognize the impact of globalization and social responsibility on all organizations.

REQUIRED COURSES		UNITS
ACCTG 200	Introduction to Accounting	3
OR		
ACCTG 1A	Financial Accounting	5
GBUS 5	Introduction to Business	3
GBUS 10	Personal Finance	3
LAW 18	Fundamentals of Business Law	3
TOTAL UNITS		12-14

Certificate of Accomplishment, Business: Foundations of International Business (Plan Code: 4151)

The Certificate of Accomplishment in Business: Foundations of International Business may prepare a student to continue toward the attainment of an Associate Degree and/or for an entry-level position in a small/medium-sized business involved in international trade and logistics.

- Describe the basic terminologies and fundamental concepts of businesses across global markets.
- Recognize the impact of ethics, social responsibility, and culture on global organizations.

REQUIRED COUI	UNITS	
IBUS 1	Introduction to International Business	3
IBUS 20	Export/Import Business Practices	3
IBUS 52	Introduction to Supply Chain Management	3
IBUS 60	International Business Law	3
TOTAL UNITS		12

Certificate of Accomplishment, Business: Foundations of Management (Plan Code: 4143)

The Certificate of Accomplishment in Business: Foundations of Management may prepare a student to continue toward the attainment of an Associate Degree and/or for an entry-level supervisory or human resources position in a small/medium-sized business. Additionally, a student may be able to develop the skills needed for an entrepreneurial startup.

Program Student Learning Outcomes:

- Describe the basic terminologies and fundamental concepts of the Management function.
- Recognize the impact of managers and the management function on social responsibility and ethics.

REQUIRED COURSES		UNITS
MGMT 49	Introduction to Management	3
OR		
MGMT 50	Human Resource Management	3
MGMT 58	Leadership and Supervision	3
MGMT 60	Management & Organization Behavior	3
MGMT 80	Small Business Entrepreneurship	3
TOTAL UNITS		12

Certificate of Accomplishment, Business: Foundations of Marketing (Plan Code: 4153)

The Certificate of Accomplishment in Business: Foundations of Marketing may prepare a student to continue toward the attainment of an Associate Degree and/or for an entry-level position in a small/medium-sized business, in functions such as sales, advertising or product development.

Program Student Learning Outcomes:

- Describe the basic terminologies and fundamental concepts of marketing.
- Recognize the impact of marketers and the marketing function on social responsibility and ethics.

REQUIRED COURSES		UNITS
MKTG 40	Salesmanship	3
MKTG 41	Marketing Communications	3
MKTG 47	Essentials of Marketing	3
GBUS 25	Digital and Social Media	3
TOTAL UNITS		12

Certificate of Accomplishment, Business: Business Economics (Plan Code: 4145)

The Certificate of Accomplishment will prepare a student to continue toward the attainment of an Associate Degree and/or for an entry-level position in a small/medium-sized business, in functions such as accounting, finance or budget planning. Additionally, this may prepare the student for a variety of starting positions in government planning.

- Develop a basic understanding of microeconomics, managerial accounting and fundamentals of business law.
- Apply a knowledge of microeconomic theory to solve problems using equations, graphs, and technical skills.

REQUIRED COURSES		UNITS
ACCTG 1B	Managerial Accounting	5
ECON 2/2H	Micro Economic Analysis/Honors	3
LAW 19	Legal Environment of Business	3
TOTAL UNITS		11

Certificate of Accomplishment, Business: Money and Banking (Plan Code: 4144)

The Certificate of Accomplishment will prepare a student to continue toward the attainment of an Associate Degree and/or for an entry-level position in a small/medium-sized business in a financial or banking industry, and in functions such as accounting and budget planning.

Program Student Learning Outcomes:

- Develop a basic understanding of macroeconomics, financial accounting and legal environment of business.
- Apply a knowledge of macroeconomic theory to solve problems using equations, graphs, and technical skills.

REQUIRED COU	RSES	UNITS
ACCTG 1A	Financial Accounting	5
ECON 1/1H	Macro Economic Analysis/Honors	3
LAW 18	Fundamentals of Business Law	3
TOTAL UNITS		11

Certificate of Accomplishment, Business: Logistics (Plan Code: 4127)

The Certificate of Accomplishment may prepare a student to continue toward the attainment of an Associate Degree and/or for an entry-level position in a small/medium-sized business involved in international trade, logistics and supply-chain management.

Program Student Learning Outcomes:

- Describe the basic terminologies and fundamental concepts of logistics and supply chains.
- Recognize the impact of globalization on supply chain management and distribution of goods and services.

REQUIRED COURSES		UNITS
IBUS 1	Introduction to International Business	3
IBUS 20	Export-Import Business Practices	3
IBUS 52	Introduction to Supply Chain Management	3
IBUS 75	Introduction to Logistics	3
TOTAL UNITS		12

Certificate of Accomplishment, Real Estate Salesperson (Plan Code: 4115)

The courses listed in the Real Estate Salesperson Certificate of Accomplishment will qualify and prepare a student to take the written examination for a Real Estate Salesperson license. Upon successfully passing the examination, a license will be approved by the CalBRE. This license is required to conduct real estate activities while under the supervision of a licensed broker. For additional information regarding the Real Estate Salesperson license, refer to http://www.dre.ca.gov.

- Demonstrate a basic understanding of the language and theories of real estate sales in preparation for the real estate salesperson license.
- Identify the role and challenges that ethics, social responsibility, and diversity play within small organizations.

REQUIRED COURS	ES	UNITS
REAL 80	Real Estate Principles	3
REAL 81	Real Estate Practice	3

REAL 78	Real Estate Economics	3
REAL 253	Property Management	3
TOTAL UNITS		12

Certificate of Accomplishment, Real Estate Broker (Plan Code: 4154)

The courses listed in the Real Estate Broker certificate of accomplishment, coupled with a minimum of 2 years full-time licensed salesperson experience, will qualify and prepare a student to take the written examination for a Real Estate license. Upon successfully passing the examination, a license will be approved by the CalBRE. For additional information regarding the Real Estate Salesperson license, refer to http://www.dre.ca.gov.

Program Student Learning Outcomes:

- Demonstrate a basic understanding of the language and theories of real estate brokerage in preparation for the real estate broker license.
- Identify the role and challenges that ethics, social responsibility and diversity play within small organizations.

REQUIRED COU	RSES	UNITS
REAL 85	Real Estate Appraisal	3
REAL 87	Real Estate Finance	3
ACCTG 200	Introduction to Accounting	3
LAW 20	Property Law	3
TOTAL UNITS		12

Certificate of Accomplishment, Foundations of Entrepreneurship (Plan Code: 4203)

The Foundations of Entrepreneurship Certificate of Accomplishment is designed to provide students with 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 model. Upon completion of this Certificate, a student will have the skills to plan and control financial resources, communicate with and lead people in the organization, plan and control informational and technological resources and, finally, unite these skills into the development of a strategic business model/business plan that will be designed for success.

Program Student Learning Outcomes:

- Demonstrate a basic understanding of the language and theories of entrepreneurship and small business management.
- Identify the role and challenges that ethics, social responsibility and diversity play within small organizations.

REQUIRED COURSES

MGMT 80	Small Business Entrepreneurship	3
ACCTG 229	Spreadsheet Accounting	3
GBUS 25	Digital and Social Media	3
MGMT 50	Human Resource Management	3

TOTAL UNITS

UNITS

Certificate of Accomplishment, Personal Financial Planning (Plan Code: 4202)

The Personal Financial Planning Certificate of Accomplishment will prepare students to learn the concepts of personal financial planning that can be further developed into a career in finance. Students will evaluate various investment products and strategies appropriate for achieving financial goals at different life stages; evaluate the effects of changes in income, deductions, and filing status on an individual's tax liability; and will be able to design and create electronic spreadsheets. Upon completion of this Certificate, a student will have the skills to plan and control financial resources, communicate the most current laws, regulations and forms for tax planning purposes and, finally, unite these skills by creating electronic spreadsheets.

Program Student Learning Outcomes:

- Demonstrate a basic understanding of the language and theories of personal financial planning.
- Identify the role of technology in the world of personal financial planning.

REQUIRED COURS	ES	UNITS
GBUS 10	Personal Finance	3
ACCTG 205	Fundamentals of Tax	3
COSA 15	Microsoft Excel for Windows	3
TOTAL UNITS		9

Certificate of Accomplishment, Social Media Application Development (Plan Code: 4201)

The Social Media Application Development Certificate of Accomplishment will prepare students to develop a social media application that can be further developed into a business. Students will understand basic business concepts and theories; learn the different uses of digital and social media, and will be able to design and develop an app. This certificate will give students a complete understanding of Social and Digital Media application development, in order to compete for entry-level jobs. Upon completion of this Certificate, a student will have the skills to plan and control business resources, communicate with and lead people in the organization on the functions of different social media platforms, plan and control informational and technological resources and, finally, unite these skills into the development of social media applications for an organization to compete in the New Economy.

Program Student Learning Outcomes:

- Demonstrate a basic understanding of the language and theories of application development.
- Identify the role of technology in the world of personal social media design.

REQUIRED COURSI	ES	UNITS
GBUS 5	Introduction to Business	3
GBUS 25	Digital and Social Media	3
COSP 201	Mobile App Development	1
TOTAL UNITS		7

BUSINESS INFORMATION WORKER

The Business Information Worker program is a comprehensive offering of courses to prepare students for a wide variety of office positions in the Hospitality and Tourism, Retail, Health Care Services, Financial Services and Real Estate, and Business Services Industries.

Associate in Science (A.S.) Degree, Business Information Worker (Plan Code: 2129)

This Associate Degree is a two-year program leading to the Associate in Science (A.S.) degree. It is designed to prepare students for a wide variety of office positions in the Hospitality and Tourism, Retail, Health Care Services, Financial Services and Real Estate, and Business Services Industries.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Create a variety of business documents using business applications software packages.
- Analyze the effectiveness of a variety of communication methods for use in a business environment.

REQUIRED COURS	ES	UNITS
BCOM 15	Business Communications	3
BCOM 25	Digital and Social Media	3
BCOM 263	Customer Service	3
COSA 5	Microsoft Windows Operating System	3
COSA 30	Introduction to Computers	3
COSA 10	Microsoft Word for Windows	3
COSA 15	Microsoft Excel for Windows	3
COSA 215	Microsoft Outlook for Windows	3
COSK 200	Keyboarding and Document Production	3
Subtotal Units		27
	plete THREE (3) units from the following:	
BCOM 222	Job Search Skills	3
BCOM 260	Business Telephone Procedures	1
BCOM 262	Soft Skills for the Workplace	1
COSA 2	Critical Thinking Using Computers	3
COSA 20	Microsoft PowerPoint for Windows	3
COSA 35	Microsoft Office	3
COSK 209	Speed/Accuracy Bldg. for Typists	1
COSK 233	Computer Keyboarding Skills	1
Subtotal Units		3
TOTAL UNITS		30

Certificate of Achievement, Business Information Worker (Plan Code: 3129)

This Certificate of Achievement is a two-year program. It is designed to prepare students for a wide variety of office positions in the Hospitality and Tourism, Retail, Health Care Services, Financial Services and Real Estate, and Business Services Industries.

Program Student Learning Outcomes:

• Create a variety of business documents using business application software packages.

REQUIRED COURSES—Complete the **30 units** of required courses as listed in the Associate Degree in Business Information Worker major requirements.

Certificate of Accomplishment, Business Digital Literacy (Plan Code: 4130)

This certificate will develop students' current computer information competency skills in this short-term course.

Program Student Learning Outcomes:

- Differentiate and evaluate the uses and standards of computer hardware.
- Create word processing documents, worksheets, presentations and print a deliverable.

REQUIRED COURS	ES	UNITS
COSA 1	Computer Information Competency	1
TOTAL UNITS		1

Certificate of Accomplishment, Customer Relations Specialist (Plan Code: 4157)

Students learn the communication skills and customer service techniques that are in-demand in the workforce.

Program Student Learning Outcomes:

Apply effective communication skills to satisfy customers' needs and build relationships.

REQUIRED COURS	ES	UNITS
BCOM 15	Business Communications	3
BCOM 263	Customer Service	3
TOTAL UNITS		6

Certificate of Accomplishment, Digital and Social Media (Plan Code: 4156)

Students learn the most updated criteria for evaluating social media platforms and generating branding content.

Program Student Learning Outcomes:

• Evaluate social media platforms to determine suitability for a variety of digital content.

REQUIRED COURS	ES	UNITS
BCOM 15	Business Communications	3
BCOM 25	Digital and Social Media	3
BCOM 263	Customer Service	3
TOTAL UNITS		9

Certificate of Accomplishment, Microsoft Essentials (Plan Code: 4155)

Students acquire the in-demand productivity software skills and the formatting knowledge that employers are looking for.

Program Student Learning Outcomes:

• Create appropriately formatted deliverables using a variety of Microsoft Office software.

REQUIRED COURSES		UNITS
COSA 5	Microsoft Windows Operating System	3
COSA 30	Introduction to Computers	3
COSA 215	Microsoft Outlook for Windows	3
TOTAL UNITS		9

LONG BEACH CITY COLLEGE

Certificate of Completion, Computer Hardware Repair (Plan Code: 4162)

Students will learn the basic IT skills involved in computer systems setup, repair, and management. Skills include component replacement of PC systems, operating system installation and configuration, local area network setup and operations, and basic office productivity software operations.

Program Student Learning Outcomes:

- Analyze common software and hardware problems on personal computers.
- Distinguish and explain the introductory core computer and IT concepts and technology that are used personally, in society, in government, and business.

REQUIRED COURSES		HOURS
COSA 650	Intro. to IT Concepts & Applications	72
COSN 605	Computer Hardware Fundamentals	72
TOTAL HOURS		144

Certificate of Completion, Office Technologies – Microsoft Outlook (Plan Code: 4160)

This program provides instruction in desktop management using Microsoft Outlook. Students completing the Microsoft Outlook certificate will possess the skills necessary to effectively use Outlook software tools. Topics include sending and receiving e-mail using special features, creating contacts, planning and tracking tasks, scheduling and managing multiple calendar items, creating rules, importing and exporting contacts, archiving and customizing Outlook components.

Program Student Learning Outcomes:

Students will use Outlook features to create professional emails, manage calendar items, and customize the Outlook interface as needed.

REQUIRED COURSES		HOURS
COSA 628	Microsoft Outlook, Introductory	18
COSA 629	Microsoft Outlook, Intermediate	18
COSA 630	Microsoft Outlook, Advanced	18
TOTAL HOURS		E A

UTAL HOURS

Students must log in a minimum of 54 contact hours of laboratory work. The student must complete the required assessment/proficiency exams in Microsoft Outlook with a score of 70% or above in each required assessment/proficiency exam.

Certificate of Completion, Office Technologies – Microsoft PowerPoint (Plan Code: 4161)

Students will learn how to use Microsoft PowerPoint for the PC and its editing, formatting, and language tools to create, format, save, revise, and print personal and professional presentations. Students are required to complete the entire series of three courses within this program to receive the certificate of completion. There are no units associated with these noncredit classes, but students are expected to complete a total of 54 hours for completion.

Program Student Learning Outcomes:

Use Microsoft PowerPoint to create, customize, and format professional presentations.

REQUIRED COURSES		HOURS
COSA 620	Microsoft PowerPoint, Introductory	18
COSA 621	Microsoft PowerPoint, Intermediate	18
COSA 622	Microsoft PowerPoint, Advanced	18
TOTAL HOURS		54

Students must log in a minimum of 54 contact hours of laboratory work. The student must complete the required assessment/proficiency exams in Microsoft PowerPoint with a score of 70% or above in each required assessment/proficiency exam.

Certificate of Completion, Office Technologies – Job Search Skills (Plan Code: 4164)

The certificate in Job Search Skills will certify that students have developed occupational competence for obtaining desired positions in the workforce. This certificate will serve to verify that students have undergone self-evaluation, researched careers and companies, prepared required documentation (resume, cover letter) needed to get an interview, as well as prepared for interviews and are able to apply necessary follow-up procedures. Students are required to complete the three-course series within this program to receive the certificate of completion. There are no units associated with these noncredit classes, but students are expected to complete a total of 54 hours for completion.

Program Student Learning Outcomes:

• Develop and complete a portfolio that presents the student(s) as the most qualified job applicant(s).

REQUIRED COURSES		HOURS
BCOM 622	The Job Search Process	18
BCOM 623	Job Search Tools	18
BCOM 624	The Interview Process	18
TOTAL HOURS		54

Certificate of Completion, Office Technologies – Microsoft Access (Plan Code: 4165)

Students will learn how to use Microsoft Access to perform database related operations necessary to a small business or organization. Database skills include the ability to create and modify data tables, data entry and lookup forms, summary and detail reports, and select, update, and delete queries. Students are required to complete the entire series of three courses within this program to receive the certificate of completion. There are no units associated with these noncredit classes, but students are expected to complete a total of 54 hours for completion.

Program Student Learning Outcomes:

• Use Microsoft Access to install, configure and manage a business database system.

REQUIRED COURSES		HOURS
COSA 625	Microsoft Access, Introductory	18
COSA 626	Microsoft Access, Intermediate	18
COSA 627	Microsoft Access, Advanced	18
TOTAL HOURS		54

Certificate of Completion, Office Technologies – Microsoft Excel (Plan Code: 4166)

Students will learn how to use Microsoft Excel for the PC and its editing, formatting, language tools, functions, and arguments to create, format, save, revise, and print various business and personal spreadsheets. Students are required to complete the entire series of three courses within the Office Technologies-Microsoft Excel program to receive the certificate of completion. There are no units associated with these noncredit classes, but students are expected to complete a total of 54 hours for completion.

Program Student Learning Outcomes:

• Use Microsoft Excel to create, customize, and format business and personal spreadsheets.

REQUIRED COURSES		HOURS
COSA 615	Microsoft Excel, Introductory	18
COSA 616	Microsoft Excel, Intermediate	18
COSA 617	Microsoft Excels, Advanced	18
TOTAL HOURS		54

Certificate of Completion, Office Technologies – Microsoft Word (Plan Code: 4167)

Students will learn how to use Microsoft Word for the PC and its editing, formatting, and language tools to create, format, save, revise, and print various business and report documents. Students are required to complete the entire series of

three courses within this program to receive the certificate of completion. There are no units associated with these noncredit classes, but students are expected to complete a total of 54 hours for completion.

Program Student Learning Outcomes:

• Use Microsoft Word to create, customize, and format business documents.

REQUIRED COURSES		HOURS
COSA 610	Microsoft Word, Introductory	18
COSA 611	Microsoft Word, Intermediate	18
COSA 612	Microsoft Word, Advanced	18
TOTAL HOURS		54
TOTAL HOURS		54

CHILD DEVELOPMENT: EARLY CHILDHOOD EDUCATION (CDECE)

The Child and Adult Development Department 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 career technical education at the lower division level.

Associate in Science in Early Childhood Education for Transfer Degree (A.S.-T) (Plan Code: 5501B/C)

The Associate in Science in Early Childhood Education for Transfer is designed for students who wish to transfer to a fouryear degree program in Child Development or Early Childhood Education. A four-year degree in Child Development or Early Childhood Education is suitable preparation for application to multiple subject (elementary education) teaching credential programs. An A.S.-T degree in Early Childhood Education fulfills the state education requirement for a fully qualified teacher

in a public or private early childhood setting. Students who complete this degree will receive priority admission with junior status into the CSU system.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- 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.
- 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.
- Transfer from LBCC to a University.

REQUIRED CORE COURSES		UNITS
CDECE 19	Health, Safety and Nutrition DS7	3
CDECE 45	Child & Adolescent Development DS1	3
CDECE 48	Child, Family & Community DS2	3
CDECE 50	Intro to Curriculum for Young Children	3
CDECE 53	Principles and Practices DS3	3
CDECE 61	Teaching in a Diverse Society DS3	3
CDECE 66	Observation and Assessment DS3	3
CDECE 68	Practicum D3	3
TOTAL UNITS		24
		27

Associate in Arts (A.A.) Degree, Child Development: Early Childhood Education (Plan Code: 1302)

This degree is designed for students preparing to work with infants, toddlers, pre-school or school-age children in a group setting as an assistant, teacher, master teacher, site supervisor, or center director. An A.A. degree in Child Development fulfills the state education requirement for a fully qualified teacher in a public or private early childhood setting. Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Apply a variety of effective approaches, strategies, and techniques for teaching in an early childhood classroom.
- Design, implement, and evaluate curriculum and environments based on observation and assessment of young children.

UNITS

• Analyze personal teaching experiences to guide and inform practices.

REQUIRED COURSES

Complete Levels 1, 2, 3 and 4 and choose ONE area of focused study.

Fieldwork/Preschool Techniques	3
Child & Adolescent Development DS1	3
Human Development DS1	3
Child, Family & Community DS2	3
	9
	Child & Adolescent Development DS1 Human Development DS1

LEVEL 2 CDECE 19 CDECE 50 CDECE 53 CDECE 61 Subtotal Units	Health, Safety and Nutrition DS7 Intro to Curriculum for Young Child Principles and Practices DS3 Teaching in a Diverse Society D3	3 3 3 3 12
LEVEL 3 CDECE 66 Subtotal Units	Observation and Assessment DS3	3 3
LEVEL 4 CDECE 68 Subtotal Units	Practicum D3	3 3
Subtotal Units Lev	el 1+Level 2+Level 3+Level 4	27
CHILD BEHAVIOR		2
CDECE 59 CDECE 259 Subtotal Units	Guiding Young Children DS3 Challenging Behaviors in Early Childhood	3 3 6
CURRICULUM OPT CDECE 54 CDECE 55 CDECE 57 Subtotal Units	Art & Creative Dev in Early Childhood D3 Music & Movement in Early Childhood D3 Science & Math in Early Childhood D3	3 3 3 9
FAMILY CHILD CAP CDFDC 212A CDFDC 212B Subtotal Units	RE OPTION Family Child Care Management A Family Child Care Management B	3 3 6
WORKING WITH P CDF 210A CDF 210B Subtotal Units	ARENTS OPTION Skills Strat for Family Workers Pt. I Skills Strat for Family Workers Pt. II	3 3 6
INFANT/TODDLER CDECE 40 CDECE 41 Subtotal Units	OPTION Infant and Toddler Development D4 Care and Education of Infants & Toddlers D4	3 3 6
EARLY LITERACY O CDECE 34 CDECE 58 Subtotal Units	OPTION Children's Literature DS3 Language & Literacy in Early Childhood	3 3 6

SPECIAL NEEDS OPTION

CDSED 5	Community Resources/Special Education	3
CDSED 67	Intro to Children with Special needs	3
CDSED 70	Curriculum for Special Needs	3
Subtotal Units		9
ADMINISTRATION	(ADVANCED LEVEL) OPTION	
CDECE 60A	Admin of Child Development Programs D6	3
CDECE 60B	Advanced Supervision of ECE D6	3
CDECE 31	Adult Supervision	2
Subtotal Units		8
TOTAL UNITS		33-36

Certificate of Achievement, Child Development: Early Childhood Education (Plan Code: 3302)

This certificate is designed for students preparing to work with infants, toddlers, preschool or school-age children in a group setting as an aide, teacher, master teacher, site supervisor, or center director. Program Student Learning Outcomes:

- Apply a variety of effective approaches, strategies, and techniques for teaching in an early childhood classroom.
- Design, implement, and evaluate curriculum and environments based on observation and assessment of your children.
- Analyze personal teaching experiences to guide and inform practices.

REQUIRED COURSES—Complete Levels 1, 2, 3 and 4 and choose ONE area of focused study, as listed in the Associate Degree in Child Development: Early Childhood Education major requirements.

Other Program Requirements for the A.A. and Certificate of Achievement:

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, and an experience component, satisfies the requirements for a Teacher level Child Development Permit 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 562-938-4792 or email <u>ifrumkin@lbcc.edu</u> for an appointment.

Certificate of Accomplishment, CDECE: Assistant Teacher (Plan Code: 4055)

May assist in the instruction of children under the supervision of an Associate Teacher or above.

Program Student Learning Outcomes:

• Describe the socialization of the child focusing on the interrelationship of family, school, and community.

• Describe development of children from conception through adolescence in the physical, social, emotional, and cognitive domains.

REQUIRED COURSES		UNITS
CDECE 45	Child & Adolescent Development DS1	3
OR		
CDECE 47	Human Development DS1	3
CDECE 48	Child, Family & Community DS2	3
TOTAL UNITS		6

Certificate of Accomplishment, CDECE: Associate Teacher (Plan Code: 4056)

May provide instruction and supervise assistant.

Program Student Learning Outcomes:

- Investigate and apply developmentally appropriate principles and teaching strategies to positively influence all young children's development and acquisition of knowledge and skills.
- Analyze preschool environments for quality indicators.

REQUIRED COURSES		UNITS
CDLL 52	Fieldwork/Preschool Child Techniques DS3	3
CDECE 45	Child & Adolescent Development DS1	3
OR		
CDECE 47	Human Development DS1	3
CDECE 48	Child, Family & Community DS2	3
CDECE 50	Intro to Curriculum for Young Children	3
TOTAL UNITS		12

Certificate of Accomplishment, CDECE: Family Development (Plan Code: 4052)

The focus of this program of study is on developing the skills and knowledge to effectively work with and support families in a variety of settings. Highly recommended for students interested in working as Head Start Family Service Workers and/or other employment in Human Services fields.

Program Student Learning Outcomes:

- Analyze the core principles underlying the empowerment and the strength-based family support approach to family development.
- Synthesize family development principles.

REQUIRED COURSES		UNITS
CDECE 47	Human Development DS1	3
CDECE 48	Child, Family & Community DS2	3
CDF 210A	Skills Strat for Family Workers Pt.1	3
CDF 210B	Skills Strat for Family Workers Pt.2	3
TOTAL UNITS		12

Certificate of Accomplishment, Child Development: Permit Specialization Areas

For graduation with a Certificate of Accomplishment Area of Specialization Permit, as defined on the State Child Development Matrix for a master teacher:

- 1. Complete one of the specialization areas below with a minimum grade of "C" in each course.
- 2. Complete 24 units in Early Childhood Education, including CDECE 45 or 47, and CDECE 48, in addition to the six required in the area of specialization (for a total of 30 ECE credits).
- 3. Fifty percent (50%) or more of the six units required for the specialization must be completed in residence (credit earned by exam, where applicable, may be included) at LBCC.
- 4. Complete 16 general education units.
- 5. Complete 2 units of Adult Supervision.

During your final semester of course work, complete and submit the online certificate/graduation application form, which is available through the Viking Student Portal. Deadlines for graduation applications are posted at https://www.lbcc.edu/pod/registration-dates.

Certificate of Accomplishment, Child Development: Permit Specialization Area - Child Health and Safety (Plan Code: 4059)

The focus of this program of study is on developing an understanding of the laws, regulations, standards, policies, procedures and early childhood curriculum related to child health, safety and nutrition.

Program Student Learning Outcomes:

- Identify and demonstrate regulations, standards, policies, and procedures related to health, safety, and nutrition in early childhood settings.
- Evaluate environments for both positive and negative impacts on children's health and safety including first aid situations and appropriate responses.
- Describe strategies used to promote health, safety, and nutrition of children and adults in early childhood settings.

REQUIRED COURSES		UNITS
CDECE 19	Health, Safety and Nutrition DS7	3
KINPP 23	First Aid and Safety	3
TOTAL UNITS		6

Certificate of Accomplishment, Child Development: Permit Specialization Area - Children with Exceptional Needs (Plan Code: 4060)

The focus of this program of study is preparation for working with children with special needs in the context of the school, family and community.

Program Student Learning Outcomes:

- Classify service referral options specific to family needs.
- Explain various exceptionalities and conditions of children and identify interventions based on the developmental continuum.

UNITS

• Design curriculum strategies based on children's individual needs in an inclusive and natural environment.

REQUIRED COURSES

Complete SIX (6) units from the following:		
CDSED 5	Community Resources/Special Education	3
CDSED 67	Intro to Children with Special Needs	3
CDSED 70	Curriculum for Special Needs	3
TOTAL UNITS		6

Certificate of Accomplishment, Child Development: Permit Specialization Area - Family Child Care Certificate (Plan Code: 4061)

The focus of this program of study is preparation for setting up a developmentally appropriate, viable child care business from home.

Program Student Learning Outcomes:

- Design and diagram a developmentally appropriate learning centered room arrangement in family child care.
- Design and evaluate the environment and day to day policies and procedures for implementing a family childcare program.

REQUIRED COURSES		UNITS
CDFDC 212A	Family Child Care Management A	3
CDFDC 212B	Family Child Care Management B	3
TOTAL UNITS		6

Certificate of Accomplishment, Child Development: Permit Specialization Area - Infant/Toddler Certificate (Plan Code: 4062)

The focus of this program of study is on developing the skills and knowledge in preparation for working with young children ages 0-3 in a group setting.

Program Student Learning Outcomes:

- Demonstrate knowledge of developmental concepts and theories pertaining to children birth to 36 months in the
 physical, cognitive, language, social, and emotional domains.
- Summarize the essential policies and practices of quality infant and toddler programs.

REQUIRED COURSES		UNITS
CDECE 40	Infant and Toddler Development D4	3
CDECE 41	Care and Education of Infants & Toddlers D4	3
TOTAL UNITS		6

Certificate of Accomplishment, Child Development: Permit Specialization Area - Early Literacy (Plan Code: 4066)

The focus of this program of study is on developing the skills and knowledge to support young children's language acquisition and literacy skills.

- Integrate research-based strategies for language and literacy development into the development of appropriate
 activities and environments for both first and second language learning young children.
- Evaluate and integrate children's development, characteristics, and needs into literature selection and presentation of books and book related activities.

REQUIRED COURSES		UNITS
CDECE 34	Children's Literature	3
CDECE 58	Language & Literacy in Early Childhood	3
TOTAL UNITS		6

Certificate of Accomplishment, Child Development: Permit Specialization Area - Curriculum in Early Childhood Education (Plan Code: 4122)

The focus of this program of study is on planning, implementing and evaluating curriculum activities for young children in early care and education environments.

Program Student Learning Outcomes:

- Demonstrate skills in analyzing resources and approaches to selecting and developing science and mathematic activities and curriculum for young children.
- Plan and demonstrate developmentally appropriate, culturally relevant, and respectful music and movement activities.
- Develop and organize a comprehensive art and creativity portfolio which includes developmentally appropriate activities to engage children with open-ended materials.

REQUIRED COURSES		UNITS
Complete SIX (6)	units from the following:	
CDECE 54	Art & Creative Dev in Early Childhood D3	3
CDECE 55	Music & Movement in Early Childhood D3	3
CDECE 57	Science & Math in Early Childhood D3	3
TOTAL UNITS		6

Certificate of Completion, Family Child Care Management (Plan Code: 4050)

Students completing this certificate will develop the skills and competencies to set up and manage a small or large family child care business in their own home or residence. Licensing regulations, business practices and basics of developmentally appropriate child development practices will be explored.

Program Student Learning Outcomes:

• Design and evaluate the environment and day to day policies and procedures for implementing a family child care program.

REQUIRED COU	RSES	HOURS
CDFDC 612A	Family Child Care Management A	54
CDFDC 612B	Family Child Care Management B	54
TOTAL HOURS		108

CHILD DEVELOPMENT: SPECIAL EDUCATION ASSISTANT

The Child and Adult Development Department 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.

Associate in Arts (A.A.) Degree, Child Development: Special Education Assistant (Plan Code: 1310)

Students prepare to work as a classroom assistant with children who have special needs. An A.A. Degree increases employment opportunities, salary potential and prepares students for transfer. Employment opportunities include: Teacher Assistant in School Districts, Residential Care Centers, Department of Rehabilitation, or Private Agencies.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- 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.

REQUIRED COURS	ES	UNITS
CDECE 47	Human Development DS1	3
CDECE 59	Guiding Young Children DS3	3
CDSED 5	Community Resources/Special Education	3
CDSED 67	Intro to Children with Special Needs	3
CDSED 70	Curriculum for Special Needs	3
CDSED 69	Special Education Practicum	3
ASL 1	American Sign Language 1	4
Subtotal Units		22
IN ADDITION, com	plete SIX (6) units from the following:	
CDECE 19	Health, Safety and Nutrition DS7	3
CDECE 61	Teaching in a Diverse Society D3	3
ASL 2	American Sign Language 2	4
ASL 3	American Sign Language 3	4
ASL 4	American Sign Language 4	4
Subtotal Units		6
TOTAL UNITS		28

RECOMMENDED: A valid Red Cross First Aid and CPR Certificate.

Certificate of Achievement, Child Development: Special Education Assistant (Plan: Code 3310)

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, or Private Agencies.

- Explain various exceptionalities and conditions of children and identify interventions based on the developmental continuum.
- Identify ways to collaborate with families and community members in supporting inclusion of children with special needs.
- Design, implement, and evaluate curriculum activities that are based on research, observation, and assessment of children with special needs.

REQUIRED COURSES—Complete the **28 units** of required courses as listed in the Associate Degree in Child Development: Special Education Assistant major requirements.

COLLEGE AND WORKPLACE READINESS

Certificate of Competency, Foundational Skills (Plan Code: 4211)

The Foundational Skills program prepares students with the essential skills for academic success. Students gain knowledge and skills in language arts and math. Students who reach competencies may advance to develop skills for the workplace and to prepare for future educational opportunities.

Program Student Learning Outcomes:

• Demonstrate the ability to apply foundational language arts and/or math skills.

REQUIRED COURSES		HOURS
FS 600	Foundational Skills: Language Arts	18
FS 605	Foundational Skills: Mathematics	18
TOTAL HOURS		36

COMMUNICATION STUDIES

The Communication Studies department 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.

Associate in Arts in Communication Studies for Transfer Degree (A.A.-T) (Plan Code: 5002B/C)

Communication is a diverse field of academic and experiential study. Communication is intertwined with all of human life. The field of study deals with both language and thought thus identifying it as central to human existence. Students investigate intrapersonal and interpersonal manifestations such as, verbal and nonverbal modes of communication to assist in understanding how culture, demographics, gender and countless other variables affect the encoding and decoding of sending and receiving messages. The Associate in Arts in Communication Studies for Transfer Degree offers a variety of communication courses designed to expand students' inquisitive nature that leads to observation and resulting in new theories to be explored. Students who complete this degree will receive priority admission with junior status into the CSU system.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Examine theories fundamental to the Communication Studies discipline.
- Engage in critical thinking.
- Communicate competently in various settings.
- Construct and deliver effective oral presentations.

REQUIRED CORE COURSES		UNITS
COMM 10/10H	Elements of Public Speaking/Honors	3
Subtotal Units		3

IN ADDITION, com LIST A	olete TWO (2) courses from LIST A:	
COMM 20	Elements of Interpersonal Communication	3
COMM 30	Elements of Group Communication	3
COMM 60	Elements of Argumentation and Debate	3
Subtotal Units		6
	plete TWO (2) courses from LIST B:	
LIST B		_
Any LIST A course r	•	3
COMM 25	Elements of Intercultural Communication	3
COMM 31	Elements of Leadership Communication	3
COMM 40	Elements of Communication Theory	3
COMM 45	Elements of Persuasion	3
COMM 50	Elements of Oral Interpretation	3
Subtotal Units		6
	plete ONE (1) course from LIST C:	
LIST C	3 course not already used	3
ANTHR 2/2H	Cultural Anthropology/Honors	3
PSYCH 1/1H	Introduction to Psychology/Honors	3
SOCIO 1/1H	Introduction to Sociology/Honors	3
ENGL 2	••••	4
OR	Introduction to Literature/Composition	4
ENGL 3/3H	Argumentative and Critical Writing/Honors	4
JOURN 20	Beginning Newswriting and Reporting	4
Subtotal Units		3-4
TOTAL UNITS		18-19

Associate in Arts (A.A.) Degree, Communication Studies (Plan Code: 1240)

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.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Examine theories fundamental to the Communication Studies discipline.
- Engage in critical thinking.
- Communicate competently in various settings.
- Construct and deliver effective oral presentations.

REQUIRED COURSE		UNITS
COMM 10/10H	Elements of Public Speaking/Honors	3
COMM 20	Elements of Interpersonal Communication	3
COMM 25	Elements of Intercultural Communication	3
COMM 30	Elements of Group Communication	3
COMM 60	Elements of Argumentation and Debate	3
Subtotal Units		15

IN ADDITION, complete THREE (3) units from the following:

COMM 31	Elements of Leadership Communication	3
COMM 40	Elements of Communication Theory	3
COMM 45	Elements of Persuasion	3
COMM 50	Elements of Oral Interpretation	3
Subtotal Units		3
TOTAL UNITS		18
RECOMMENDED	but not required courses:	
ANTHR 2	Cultural Anthropology	3
MGMT 49	Introduction to Management	3
MGMT 50	Human Resource Management	3
PSYCH 1/1H	Introduction to Psychology/Honors	3
PSYCH 11	Social Psychology	3
R_TV 40	On-Camera Performance	2.5
SOCIO 1/1H	Introduction to Sociology/Honors	3
TART 1	Acting 1-Introduction to Acting	3.5

COMPUTER SCIENCE

Students receive the foundation to succeed in the next step in their education path with the recommended Association of Computer Machines (ACM) foundation knowledge in computer science principles of program design and analysis, mathematical maturity, and a good physics foundation.

Associate in Science (A.S.) Degree, Computer Science (Plan Code: 2119)

The degree prepares a student for an entry level job in the computer software and hardware related fields by teaching them to apply the foundational skills and theory of Computer Science to a variety of problem domains, as well as a broadbased general education to prepare the students for a global citizenship. This degree may help students succeed after transferring to a CSU or UC School Computer Science major program. Students wishing a bachelor's degree (transfer program) should meet with a counselor to discuss transferability of courses.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate a knowledge of common algorithms, their performance, and what applications to use them for.
- Create computer programs with object-oriented design principles, and demonstrate a solid understanding of the practice of programming.
- Articulate the basic structures of a processor and their relation to each other and performance, and demonstrate an understanding of assembly language.

REQUIRED COURSES		UNITS
CS 11	Introduction to Computer Science-C++	4
OR		
CS 21	Introduction to Computer Science-Java	4
OR		
CS 31	Introduction to Computer Science-Python	4
Subtotal Units		4

IN ADDITION, complete the following:

CS 22	Data Structures and Algorithms	3
CS 51	Introduction to Computer Architecture	4
CS 61	Discrete Structures	4
MATH 60/60H	First Calculus Course/Honors	5
MATH 70/70H	Second Calculus Course/Honors	5
PHYS 3A	Physics for Sci. & EngMechanics	5.5
PHYS 3B	Physics for Sci. & EngE & M	4.5
Subtotal Units		31
TOTAL UNITS		35

Certificate of Achievement, Computer Science (Plan Code: 3119)

The Certificate of Achievement in Computer Science prepares a student for an entry level job in the computer software and hardware related fields by teaching them to apply the foundational skills and theory of Computer Science to a variety of problem domains. This series of courses is designed to place an emphasis on problem solving with a balance of skill acquisition and fundamental theory. Each CS course meets the California C-ID content standards for Computer Science.

Program Student Learning Outcomes:

- Demonstrate a knowledge of common algorithms, their performance, and what applications to use them for.
- Create computer programs with object-oriented design principles and demonstrate a solid understanding of the practice of programming.
- Articulate the basic structures of a processor and their relation to each other and performance and demonstrate an understanding of assembly language.

REQUIRED COURSES—Complete the **35 units** of required courses as listed in the Associate Degree in Computer Science major requirements.

Certificate of Accomplishment, Android App Developer (Plan Code: 4119)

- Demonstrate the ability to create, design, and implement java-based Android applications (apps) using the Android API.
- Show the skills to create, manage, and use databases and SQL for Android applications (apps).
- Be able to complete the full development process for Android Applications (apps).

REQUIRED COURSES		UNITS
CS 11	Introduction to Computer Science-C++	4
OR		
CS 21	Introduction to Computer Science-Java	4
OR		
CS 31	Introduction to Computer Science-Python	4
COSP 230	Android App Development in Java	3
TOTAL UNITS		7

COMPUTER SECURITY AND NETWORKING

The Computer Security and Networking curriculum skillfully trains students by providing strategically designed courses to meet their academia, transferable, and career needs.

Associate in Science (A.S.) Degree, Computer Security and Networking (Plan Code: 2125)

The degree is designed to provide students with a professional, current, and strategically designed set of classes to secure entry level employment in IT, networking, wireless, and security administration or to benefit them in the transfer to related four-year degree program.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Install, configure, manage and troubleshoot a small office or home office network (wired or wireless).
- Secure wired and wireless networks.
- Install, configure and manage client and server operating systems.
- Harden servers against intrusion.

REQUIRED COURS	ES	UNITS
BCOM 15	Business Communications	3
COSA 50	Intro to IT Concepts and Applications	4
COSN 5	Computer Hardware Fundamentals	4
COSN 10	Networking Fundamentals	3
COSN 205	UNIX/LINUX Fundamentals	4
COSN 225	Microsoft Windows Client	3
COSN 299	Security and Networking Capstone	4
COSS 271	Network Security Fundamentals	3
Subtotal Units		28
IN ADDITION, com	plete ONE (1) course from the following:	
BCOM 222	Job Search Skills	3
COSE 271WE	Work Experience-Computer & Office Studies	1-4
COSA 210	Intro to Project Management for IT	3
COSN 200	Wireless and Mobile Devices	3
COSN 210	LINUX Server Administration	4
COSN 215	LINUX Networking and Security	4
COSN 230	Microsoft Windows Server	4
COSN 250	Cloud Computing in Amazon Web Services	3
COSP 8	Visual Basic Programming	4
COSS 272	Computer Forensics and Investigation	3
COSS 273	Ethical Hacking and Countermeasures	4
CS 11	Introduction to Computer Science- C++	4
CS 21	Introduction to Computer Science-Java	4
Subtotal Units		1-4
TOTAL UNITS		29-32

Associate in Science (A.S.) Degree, Information Technology Cybersecurity (Plan Code: 2105)

The Information Technology Cybersecurity program combines systems administration fundamentals with the requisite security concepts and effective practices required to implement, administer, and harden operating systems.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate the ability to install, configure, manage and troubleshoot a small office or home office network (wired or wireless).
- Demonstrate the ability to secure wired and wireless networks.
- Demonstrate the ability to install, configure and manage client and server operating systems.
- Demonstrate the ability to harden servers against intrusion.

REQUIRED COUR	SES	UNITS
COSN 5	Computer Hardware Fundamentals	4
COSN 10	Networking Fundamentals	3
COSN 205	UNIX/LINUX Fundamentals	4
COSN 206	Scripting Fundamentals	3
COSN 253	Security in Amazon Web Services	3
COSS 271	Network Security Fundamentals	3
COSS 272	Computer Forensics and Investigation	3
COSS 273	Ethical Hacking and Countermeasures	4
TOTAL UNITS		27

Certificate of Achievement, Cloud Computing (Plan Code: 3132)

The Cloud Computing Certificate of Achievement provides the student with the industry skills to understand, build, and maintain cloud applications. These skills include the technical principles of the hardware and software requirements to run systems in the cloud, including storage, database management, and software systems, while maintaining secure access.

- Create Infrastructure as a Service (IaaS) solutions by provisioning computing instances, establishing virtual private networks, and managing databases, and storage within a secure online environment.
- Analyze performance metrics of cloud architecture to respond dynamically to information and computing technology workloads and optimize service costs.
- Create Infrastructure as a Service using automated code scripts (Infrastructure As Code).

REQUIRED COURSES		UNITS
COSN 10	Networking Fundamentals	3
COSN 205	UNIX/LINUX Fundamentals	4
COSN 230	Microsoft Windows Server	4
COSN 250	Cloud Computing in Amazon Web Services	3
COSN 251	Database Essentials in Amazon Web Svcs	3
COSN 252	App Development in Amazon Web Services	3
COSN 253	Security in Amazon Web Services	3
COSS 271	Network Security Fundamentals	3
Subtotal Units		26

IN ADDITION, complete ONE (1) course from the following:

TOTAL UNITS		30
Subtotal Units		4
CS 31	Introduction to Computer Science - Python	4
CS 21	Introduction to Computer Science - Java	4
CS 11	Introduction to Computer Science - C++	4

Certificate of Achievement, Computer Security and Networking (Plan Code: 3125)

This Certificate of Achievement provides learners with the necessary skills to enter the Computer Networking and Security field.

Program Student Learning Outcomes:

- Install, configure, manage, and troubleshoot a small office/home office network (wired or wireless).
- Secure wired and wireless networks.
- Install, configure, and manage client and server operating systems.
- Harden servers against intrusion.

REQUIRED COURSES—Complete the **29-32 units** of required courses as listed in the Associate Degree in Computer Security and Networking major requirements.

Certificate of Achievement, Cyber Security (Plan Code: 3106)

Students will learn the skills to investigate cyber-attacks or stop them before they even begin.

Program Student Learning Outcomes:

• Demonstrate the ability to install, configure, manage and troubleshoot a small office or home office network (wired or wireless).

UNITS

- Demonstrate the ability to secure wired and wireless networks.
- Demonstrate the ability to install, configure and manage client and server operating systems.
- Demonstrate the ability to harden servers against intrusion.

REQUIRED COURSES

COSN 5	Computer Hardware Fundamentals	4
COSN 10	Networking Fundamentals	3
COSS 271	Network Security Fundamentals	3
COSS 272	Computer Forensics and Investigation	3
COSS 273	Ethical Hacking and Countermeasures	4
TOTAL UNITS		17

Certificate of Achievement, Information Technology Cybersecurity (Plan Code: 3105)

The Information Technology Cybersecurity program combines systems administration fundamentals with the requisite security concepts and effective practices required to implement, administer, and harden operating systems.

Program Student Learning Outcomes:

- Demonstrate the ability to install, configure, manage and troubleshoot a small office or home office network (wired or wireless).
- Demonstrate the ability to secure wired and wireless networks.
- Demonstrate the ability to install, configure and manage client and server operating systems.
- Demonstrate the ability to harden servers against intrusion.

REQUIRED COU	RSES	UNITS
COSN 5	Computer Hardware Fundamentals	4
COSN 10	Networking Fundamentals	3
COSN 205	UNIX/LINUX Fundamentals	4
COSN 206	Scripting Fundamentals	3
COSN 253	Security in Amazon Web Services	3
COSS 271	Network Security Fundamentals	3
COSS 272	Computer Forensics and Investigation	3
COSS 273	Ethical Hacking and Countermeasures	4
TOTAL UNITS		27

Certificate of Accomplishment, Computer Hardware Repair (Plan Code: 4126)

Students learn the in-demand skills for running wired and wireless networks and prepare for a career in IT.

Program Student Learning Outcomes:

- Analyze common software and hardware problems on personal computers.
- Distinguish and explain the introductory core computer and IT concepts and technology that are used personally, in society, in government, and business.

REQUIRED COURSES		UNITS
COSA 50	Intro to IT Concepts and Applications	4
COSN 5	Computer Hardware Fundamentals	4
TOTAL UNITS		8

Certificate of Accomplishment, Computer Networking Technician (Plan Code: 4125)

Students learn the in-demand skills for running wired and wireless networks and prepare for a career in IT.

- Distinguish the differences between local area networks and wide area networks from a hardware and protocol point of view.
- Compare and contrast various wired and wireless networking technologies.

REQUIRED COURSES		UNITS
COSN 10	Networking Fundamentals	3
COSN 5	Computer Hardware Fundamentals	4
TOTAL UNITS		7

Certificate of Accomplishment, Microsoft Windows Networking Technician (Plan Code: 4086)

Students will learn the skills to connect computers, devices and people.

Program Student Learning Outcomes:

- Demonstrate the ability to set up and construct a secure peer-to-peer and client server network.
- Recognize and comprehend operating system configurations.
- Recognize and comprehend server roles.

REQUIRED COURSES		UNITS
COSN 10	Networking Fundamentals	3
COSN 5	Computer Hardware Fundamentals	4
COSN 225	Microsoft Windows Client	3
COSN 230	Microsoft Windows Server	4
TOTAL UNITS		14

Certificate of Accomplishment, UNIX Network Administrator (Plan Code: 4921)

Students learn the skills to get an entry level job configuring, administering and securing a UNIX/LINUX network.

Program Student Learning Outcomes:

- Install, configure, and secure a LINUX server.
- Install, configure and secure a LINUX network and services.
- Describe and document a LINUX network in relation to the OSI model.

REQUIRED COURSES		UNITS
COSN 10	Networking Fundamentals	3
COSN 205	UNIX/LINUX Fundamentals	4
COSN 210	LINUX Server Administration	4
COSN 215	LINUX Networking and Security	4
TOTAL UNITS		15

COMPUTER SUPPORT SPECIALIST

The Computer Support Specialist program provides students with a solid foundation in computer support for the business environment. The Computer Support Specialist program covers customer service, IT concepts and applications. Supporting courses allow students to gain a thorough understanding of necessary business communication skills, operating systems, computer hardware and networking fundamentals.

Associate in Science (A.S.) Degree, Computer Support Specialist (Plan Code: 2123)

The Computer Support Specialist concentration offers a robust and relevant core course offerings that allows students to gain job skills and the critical thinking skills that are in-demand in the workforce. The program is designed to prepare students for employment in a variety of computer support related fields.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Evaluate end user and customer support needs and apply appropriate tools and methodologies.
- Design, administer, and control user support software tools in customer relationship management and user fulfillment.

REQUIRED COURS	ES	UNITS
BCOM 15	Business Communications	3
BCOM 222	Job Search Skills	3
BCOM 263	Customer Service	3
COSA 2	Critical Thinking Using Computers	3
COSA 5	Microsoft Windows Operating System	3
COSA 50	Intro to IT Concepts and Applications	4
COSK 200	Keyboarding and Document Production	3
COSN 5	Computer Hardware Fundamentals	4
COSN 10	Networking Fundamentals	3
TOTAL UNITS		29

Certificate of Achievement, Computer Support Specialist (Plan Code: 3123)

The Computer Support Specialist Certificate of Achievement provides students with the in-demand technical knowledge, data inputting and communication strategies required for Customer Support and Help Desk technicians.

Program Student Learning Outcomes:

- Evaluate customer support and end user needs and apply appropriate tools and methodologies.
- Manage user support software tools.

REQUIRED COURSES– Complete the **29 units** of required courses as listed in the Associate Degree in Computer Support Specialist major requirements.

Certificate of Accomplishment, Computer Hardware Technician (Plan Code: 4126)

Students learn the in-demand skills for running wired and wireless networks and prepare for a career in IT.

- Analyze common software and hardware problems on personal computers.
- Distinguish and explain the introductory core computer and IT concepts and technology that are used personally, in society, in government, and business.

REQUIRED COURSES		UNITS
COSA 50	Introduction to IT Concepts and Applications	4
COSN 5	Computer Hardware Fundamentals	4
TOTAL UNITS		8

Certificate of Accomplishment, Customer Relations Specialist (Plan Code: 4157)

Students learn the communication skills and customer service techniques that are in-demand in the workforce.

Program Student Learning Outcomes:

• Apply effective communication skills to satisfy customers' needs and build relationships.

REQUIRED COURSES		UNITS
BCOM 15	Business Communications	3
BCOM 263	Customer Service	3
TOTAL UNITS		6

COMPUTER AIDED DESIGN – MECHANICAL

The Computer Aided Design – Mechanical program creates 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.

Associate in Science (A.S.) Degree, Computer Aided Design - Mechanical (Plan Code: 2913)

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 at a CSU/UC or private institution.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- 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.
- Develop career awareness, planning, employability skills, work habits, and the foundational knowledge necessary for success in the workplace.
- 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.

REQUIRED COURS	ES	UNITS
ETEC 10	Introduction to Engineering Technology	1
CAD 50	Mechanical Drafting, Introduction	2
CAD 51	Mechanical Drafting, Intermediate	2
CAD 52	CAD/CAM	2
CAD 60	Geometric Dimensioning and Tolerancing	3
CAD 202	AutoCAD Fundamentals	2
CAD 203	AutoCAD II, Advanced Concepts	2
CAD 220	Introduction to CATIA	2
CAD 221	Intermediate CATIA	2
TOTAL UNITS		18

Certificate of Achievement, Computer Aided Design – Mechanical, Core Skills (Plan Code: 3907)

The Core Skills 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.

Program Student Learning Outcomes:

• Construct engineering detail and working drawings incorporating tolerances and fits for manufacturing

REQUIRED COURS	ES	UNITS
ETEC 10	Introduction to Engineering Technology	1
CAD 50	Mechanical Drafting, Introduction	2
CAD 51	Mechanical Drafting, Intermediate	2
CAD 52	CAD/CAM	2
CAD 60	Geometric Dimensioning and Tolerancing	3
CAD 202	AutoCAD Fundamentals	2
CAD 203	AutoCAD II, Advanced Concepts	2
CAD 220	Introduction to CATIA	2
CAD 221	Intermediate CATIA	2
TOTAL UNITS		18

Certificate of Accomplishment, AutoCAD I, Fundamentals (Plan Code: 4015)

The Certificate of Accomplishment in AutoCAD I, Fundamentals (108 Hours) is the first in a series of 3 certificated classes leading to a cumulative certificate - CAD Professional (324 Hours). This entry-level AutoCAD drafting course is 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).

Program Student Learning Outcomes:

• Construct architectural and mechanical drawings using fundamental drafting principles.

REQUIRED COURSES		UNITS
CAD 202	AutoCAD Fundamentals	2
TOTAL UNITS		2

Certificate of Accomplishment, AutoCAD II, Advanced (Plan Code: 4016)

The Certificate of Accomplishment in AutoCAD II, Advanced Certificate (108 Hours) is the second in a series of 3 certificated classes leading to a cumulative certificate - CAD Professional (324 Hours). This intermediate level AutoCAD drafting course covering 3D modeling is 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).

Program Student Learning Outcomes:

• Construct architectural and mechanical drawings using fundamental drafting principles.

REQUIRED COURSES		UNITS
CAD 203	AutoCAD II, Advanced Concepts	2
TOTAL UNITS		2

Certificate of Accomplishment, AutoCAD III, Visualization, Rendering, Animation (Plan Code: 4017)

The Certificates of Accomplishment in AutoCAD III, Visualization, Rendering, Animation (108 Hours) is the third in a series of 3 certificated classes leading to a cumulative certificate - CAD Professional (324 Hours). Advanced 3D modeling, rendering and animation concepts are explored utilize AutoCAD and one or more of the following – Sketchup, REVIT Architecture, 3D Studio MAX Software and/or other similar software.

Program Student Learning Outcomes:

• Create digital 3D models of objects.

REQUIRED COURSES		UNITS
CAD 204	3D Visualization/Animation	2
TOTAL UNITS		2

Certificate of Accomplishment, CAD Professional (Plan Code: 4018)

Successful completion of a series of 4 certificated classes allows students to apply for and be awarded the Certificate of Accomplishment in CAD Professional.

Program Student Learning Outcomes:

• Construct architectural and mechanical drawings and 3D models.

REQUIRED COURSES		UNITS
CAD 50	Mechanical Drafting, Introduction	2
CAD 51	Mechanical Drafting, Intermediate	2
CAD 202	AutoCAD Fundamentals	2
CAD 203	AutoCAD II, Advanced Concepts	2
TOTAL UNITS		8

COMPUTER TECHNOLOGY

This program prepares students for careers in a variety of computer technology related fields and enhances skills for those who are currently employed in that area.

Associate in Science (A.S.) Degree, Computer Technology (Plan Code: 2126)

This degree is designed to prepare students for employment in a variety of computer related fields. Students wishing a bachelor's degree (transfer program) should meet with a counselor to discuss how this program fully articulates with Cal State Dominquez Hills' Computer Technology Program.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Prepare students for transfer to baccalaureate-granting institutions.
- Provide educational and career opportunities in the computer technology field.

REQUIRED COURSES		UNITS
COSA 50	Intro to IT Concepts and Applications	4
COSN 5	Computer Hardware Fundamentals	4
COSP 7	Programming Concepts and Methodologies	4
COSP 8	Visual Basic Programming	4
COSW 20	Front End Website Development	4
CS 21	Introduction to Computer Science-Java	4
STAT 1/1H	Elementary Statistics/Honors	4
MATH 50/H	Precalculus Math/Honors	5
TOTAL UNITS		33

Certificate of Achievement, Computer Technology (Plan Code: 3126)

The Certificate of Achievement in Computer Technology is designed to provide students with a broad base of software development skills to prepare them for software engineering and web-development careers. Students gain practical skills in Java and Visual Basic programming and the development of dynamic web services. Students will also study software design, computer usage and computer hardware to ensure broad based competencies.

Program Student Learning Outcomes:

• Provide educational and career opportunities in the computer technology field.

REQUIRED COURSES—Complete the **33 units** of required courses as listed in the Associate Degree in Computer Technology major requirements.

Certificate of Completion, Computer Information Competency (Plan Code: 4128)

Students will develop proper typing technique and build speed and accuracy. Students will also learn the basics of hardware, Internet knowledge, word processing, spreadsheet, digital data presentations, and communications applications.

Program Student Learning Outcomes:

• Comprehension and application of a broad range of computer and Internet concepts and effectively create word processing documents, workbooks, and digital presentations.

REQUIRED COURSES		HOURS
COSA 601	Computer Information Competency	36
COSK 633	Computer Keyboarding Skills	36
TOTAL HOURS		72

CONSTRUCTION TECHNOLOGY

Associate in Science (A.S.) Degree, Construction Technology (Plan Code: 2948)

The Associate in Science in Construction Technology is designed to give students a broad knowledge of the construction industry. Coursework includes job safety, construction skills, work ethics and hands-on laboratory courses to provide trade related skills.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Interpret residential building codes.
- Utilize safe techniques when using hand and power tools.

REQUIRED COURS	SES	UNITS
ELECT 253	OSHA Standards for Construction Safety	2
CONST 200	Construction Apprenticeship Readiness	7
CONST 205	Forklift Fundamentals	.5
CONST 215	Blueprint Reading for Construction Trade	3
CONST 230	Carpentry Fundamentals	3
CONST 235	Residential Roof Framing	3
CONST 240	Finish Carpentry	3
CONST 245	Residential Stairs	3
CONST 270	Cost Estimating	3
CONST 275	Contracting Laws and Management	3
COSA 1	Computer Information Competency	1
TOTAL UNITS		31.5

Certificate of Achievement, Construction Technology (Plan Code: 3948)

The Certificate of Achievement in Construction Technology is designed to give students a broad knowledge of the construction industry. Coursework includes job safety, construction skills, work ethics and hands-on laboratory courses to provide trade related skills.

Program Student Learning Outcomes:

- Interpret residential building codes.
- Utilize safe techniques when using hand and power tools

REQUIRED COURSES—Complete the **31.5 units** of required courses as listed in the Associate Degree in Construction Technology major requirements.

Certificate of Achievement, Construction Apprenticeship Readiness (Plan Code: 3953)

The Certificate of Achievement in Construction Apprenticeship Readiness provides career opportunities in various aspects of construction, a variety of sub-crafts, and contracting. By completing the certificate requirements, students acquire proficiency in basic construction techniques and in analyzing, evaluating, and providing solutions for a variety of job site situations. Students will be able to interpret blueprints, estimate materials, lay out, and construct a basic residential structure in accordance with Uniform Building Code requirements. Competencies are assessed regularly by student performance in the construction technology laboratory. will provide essential skills that will enable students to gain entry level employment in the field of Home Remodeling and Repair in the construction industry. By completing the certificate requirements, students acquire proficiency in basic construction techniques required to provide solutions for a variety of job site situations. The program provides career opportunities in various aspects of construction, including carpentry, plumbing, electrical, HVAC, concrete masonry and other construction crafts.

Program Student Learning Outcomes:

• Demonstrate the technical and organization employability skills required by the construction industry.

REQUIRED COURSES		UNITS
CONST 200	Construction Apprenticeship Readiness	7
COSA 1	Computer Information Competency	1
BCOM 262	Soft Skills for the Workplace	1
TOTAL UNITS		9

Certificate of Achievement, Home Remodeling (Plan Code: 3949)

The Certificate of Achievement in Home Remodeling will provide essential skills that will enable students to gain entry level employment in the field of Home Remodeling and Repair in the construction industry. By completing the certificate requirements, students acquire proficiency in basic construction techniques required to provide solutions for a variety of job site situations. The program provides career opportunities in various aspects of construction, including carpentry, plumbing, electrical, HVAC, concrete masonry and other construction crafts.

Program Student Learning Outcomes:

- Interpret residential building codes.
- Utilize safe techniques when using hand and power tools.

REQUIRED COURS	SES	UNITS
CONST 205	Forklift Fundamentals	.5
CONST 215	Blueprint Reading for Construction Trade	3
CONST 250	Home Remodeling Fundamentals	2
CONST 255	Home Remodeling- Basic Carpentry	2
CONST 260	Home Remodeling- Interior Construction	2
CONST 265	Home Remodeling- Exterior Construction	2
CONST 270	Cost Estimating	3
CONST 275	Contracting Laws and Management	3
COSA 1	Computer Information Competency	1
TOTAL UNITS		18.5

Certificate of Completion, Construction Apprenticeship Readiness (Plan Code: 4953)

This program provides instruction in tools and material, CPR and First Aid, OSHA 10, blueprint reading, basic math for construction, heritage of American worker, diversity awareness and sexual harassment, job search skills, construction laboratory, physical agility, Microsoft Office, operating systems, and working online.

- Demonstrate the technical and organization employability skills required by the construction industry.
- Demonstrate knowledge of safety techniques when operating construction tools and equipment.
- Differentiate and evaluate the uses and standards of computer hardware and software.

REQUIRED COURSES		HOURS
CONST 600	Construction Apprenticeship Readiness	180
COSA 601	Computer Information Competency	36
TOTAL HOURS		216

Certificate of Completion, Forklift Fundamentals (Plan Code: 4954)

The Certificate of Completion in Forklift Fundamentals will provide basic safety and operation of the forklift, including lifting principles, load rating, stability, and operation techniques. Students will gain experience using: Class II (Narrow Aisle Electric Lift Trucks), Class III (Electric Motor Hand Truck – Pellet Jack), and Class IV (Internal Combustion Engine Truck – Counterbalance Lift Truck). Upon successful completion, students will receive a Certificate of Training and a Wallet Card. Job opportunities for Forklift Operators include: warehouse shipping and receiving, construction sites, ports and docks, retail stores and all other business's that require material handling.

Program Student Learning Outcomes:

- Demonstrate the ability to operate a forklift so that the overall operation of this equipment is within the Occupational Safety Health Administration (OSHA) standards.
- Identify and develop tools needed to obtain a job in construction (resume, cover letter, application).

REQUIRED COURSES		HOURS
CONST 605	Forklift Fundamentals	18
CONST 606	Workplace Competency Skills	18
TOTAL HOURS		36

Certificate of Completion, Home Remodeling (Plan Code: 4163)

This certificate in Home Remodeling will certify that students have received the basic skills needed in tiling, painting, drywall as well as job readiness skills needed to be successful in this chosen field. Further, this certificate will verify that students have demonstrated skill achievements in safety, waterproofing, tiling floors, counter tops, and walls in ceramic, porcelain, marble, and granite and mortar floating, all necessary for pursuing entry level positions within the construction field. Students will need no prerequisite skills prior to enrolling in these series of classes and they will, with completion of courses, receive certification in OSHA.

- Demonstrate the technical and organizational employability skills required by the construction industry.
- Develop and complete a tiling project that adheres to industry standards utilizing proper tools and techniques.
- Apply, understand and evaluate the techniques, tools and materials used for cutting, hanging, taping and texturing drywall techniques.
- Develop and prepare surfaces for the application of paint to specified industry requirements.

REQUIRED COURSES		HOURS
CONST 606	Workplace Competency Skills	18
CONST 615A	Home Remodeling – Tiling	27
CONST 615B	Home Remodeling – Drywall	27
CONST 615C	Home Remodeling – Painting	27
TOTAL HOURS		99

COUNSELING AND STUDENT DEVELOPMENT

Certificate of Competency, Adult Learning Skills (Plan Code: 4400)

This program provides courses necessary to enhance employability skills of students with suspected learning disabilities. It offers an opportunity for undiagnosed students to identify areas of learning deficits and develop a plan for success in their college and career pathway.

Program Student Learning Outcomes:

• Appraise the strengths and weaknesses of various learning styles and strategies

REQUIRED COURSES		HOURS
EDEV 604	Adult Learning Assessment	9
EDEV 649A	College Study Techniques	18
TOTAL HOURS		27

Certificate of Completion, Social Competency Skills (Plan Code: 4401)

This program provides courses necessary to enhance employability and independent living skills of students with intellectual, developmental and learning disabilities. Students will develop social competencies that contribute to the foundation of basic skills needed for positive academic, work and life outcomes.

Program Student Learning Outcomes:

• Demonstrate understanding of social competency skills, effective communication, and job interview skills.

REQUIRED COURSES		HOURS
EDEV 602	Social Skills Development	36
EDEV 603	Receptive/Expressive Language Dev.	36
TOTAL HOURS		72

Certificate of Completion, Transitioning to Higher Learning (Plan Code: 4402)

The Certificate of Completion in Transition to Higher Learning is designed to give students with intellectual, developmental, and learning disabilities the necessary knowledge and skills to be successful in their college career and future employment. Students will become familiar with college rules and guidelines as well as demonstrate an ability to address and meet their needs. Students will be able to identify the difference between high school and college roles, responsibilities, and academic rigor. These courses will furthermore enhance students' ability to self-advocate for themselves to improve academic, work, and life outcomes. These courses will equip adults with disabilities with the support needed to complete a certificate or degree program and enter the workforce.

Program Student Learning Outcomes:

• Identify and analyze the roles, responsibilities, and academic expectations needed to transition to college life and expectations.

REQUIRED COURSES		HOURS
EDEV 610	Transition to Higher Learning	36
EDEV 611	Communication and Self-Advocacy	36
TOTAL HOURS		72

CULINARY ARTS

The Culinary Arts program provides students with standard, occupational, entry-level skills in the Culinary Arts, and improves the understanding of culinary fundamentals with hands-on training using traditional and state-of-the-art techniques and equipment, with an emphasis on industry-standard safety and sanitation practices.

Associate in Science (A.S.) Degree, Culinary Arts (Plan Code: 2147)

Students learn skills for positions in food preparation for institutional, restaurant, airlines, catering, convention center, cruise line, supermarket, and hotel foodservice operations. The associate degree will provide students with a broad and advanced-based general education, which will prepare them for global citizenry. Students will enhance their skills in a variety of coursework including International Cuisines and Cost Control for Hospitality.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Organize and develop Front-of-the-House (FOH) procedures and explain Cost Control measures for foodservice operations.
- Apply and demonstrate the cooking ability of various techniques in a commercial kitchen environment with the enhancement of basic baking and pastry skill.

1

REQUIRED COURSES		UNITS
CULAR 10	Intro to Hospitality	3
CULAR 20	App. Food Serv Sanit in Hotel/Rstr Mgmt	2
CULAR 30	Cost Control in Hospitality	3
CULAR 90	Intro to Culinary Skills & Principles	4
CULAR 211	Intermed. Culinary Skills & Principles	3
CULAR 215	Buffets & Catering	2
CULAR 222A	Advanced Restaurant Operations	4
CULAR 222B	Advanced Restaurant Practicum	4
CULAR 225	Product and Menu Development	2
BAKE 230	Baking & Pastry Skills for Cul Students	3
Subtotal Units		30

IN ADDITION, complete FIVE to SIX (5-6) units from the following:

CULAR 216	World Cuisines: American Regional	3	
CULAR 217	Vegetarian and Specialty Cuisine	2	
CULAR 218	World Cuisines: Asian	3	
CULAR 219	World Cuisines: Mediterranean	3	
TOTAL UNITS		35-36	
RECOMMENDED but not required courses:			
LEARN 11/11H	Learning and Academic Strategies/Honors	3	
OR			
COUNS 49	College Study Techniques	2	
MATH 825	Culinary Math	1	

Computer and Information Competency

COSA 1

Certificate of Achievement, Culinary Arts (Plan Code: 3147)

The program provides students the fundamental culinary skill for positions in the foodservice industry such as restaurants, catering, airline food operation, institutional, cruise lines, supermarket, and hotel food operation. Students will gain hands-on knowledge of classic and contemporary cooking techniques.

Program Student Learning Outcomes:

- Prepare and assemble essential menu items in foodservice operations using proper knife skills and accurate cooking methods while applying safety & sanitation rules according to industry standards.
- Identify the various employment opportunities in the Culinary Arts and Hospitality industries.

REQUIRED COURS	UNITS	
CULAR 10	Intro to Hospitality	3
CULAR 20	App. Food Serv Sanit in Hotel/Rstr Mgmt	2
CULAR 90	Intro to Culinary Skills & Principles	4
CULAR 211	Intermed. Culinary Skills & Principles	3
CULAR 215	Buffets & Catering	2
CULAR 222A	Advanced Restaurant Operations	4
CULAR 222B	Advanced Restaurant Practicum	4
BAKE 230	Baking & Pastry Skills for Cul Students	3
TOTAL UNITS		25
RECOMMENDED but not required courses:		
LEARN 11/11H	Learning and Academic Strategies/Honors	3
OR		
COUNS 49	College Study Techniques	2
MATH 825	Culinary Math	1
COSA 1	Computer and Information Competency	1

DANCE

Students completing this program should be fully prepared to move on to the next level of dance education.

Associate in Arts (A.A.) Degree, Dance (Plan Code: 1260)

Throughout the Associate in Arts in Dance degree, 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 the teaching of dance, performance, choreography, dance studio operation/management, and dance therapy practices.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop a basic knowledge and experience of live performance synthesizing dance technique and creativity.
- Develop a respect for dance as a means of personal, cultural, or social expression.

REQUIRED COURSES		UNITS
DANCE 1	Dance Forms through the Ages	3
DANCE 5	Tap Dance 1	2

DANCE 14	Modern Dance 1	2
DANCE 14 DANCE 15	Modern Dance 2	2
DANCE 20	Jazz Dance 1	2
DANCE 20 DANCE 21	Jazz Dance 2	2
DANCE 24	Hip Hop	2
DANCE 24 DANCE 26	Ballet 1	2
DANCE 20 DANCE 27	Ballet 2	2
DANCE 31	Choreography I	2
DANCE 32	Choreography 2	2
Subtotal Units		23
Subtotal Offics		23
IN ADDITION, complete a	t least ONE AND ONE HALF (1.5) units from	the following:
DANCE 41/1	Dance Performance	0.5
DANCE 41/2	Dance Performance	1
DANCE 41/3	Dance Performance	2
DANCE 41	Dance Performance	2.5
Subtotal Units		1.5
-	WO to TRHEE (2-3) units from the following	:
DANCE 3	Musical Theatre Dance	2
DANCE 6	Tap Dance 2	2
DANCE 12A	Pilates 1	2
DANCE 12B	Pilates 2	2
DANCE 13	Turns	2
DANCE 16	Modern Dance 3	2
DANCE 17	Modern Dance 4	2
DANCE 18A	Folk and Ethnic Dance-African	2
DANCE 18B	Folk and Ethnic Dance-Belly Dance	2
DANCE 19	Hip Hop Dance History	3
DANCE 28	Ballet 3	2
DANCE 29	Ballet 4	2
DANCE 33	Dance Choreography Workshop	2
DANCE 46	Ballroom/Social Dance	2
TART 25	Introduction to Theatre	3
Subtotal Units		2-3
TOTAL UNITS		26.5 - 27.5

DATABASE MANAGEMENT

Provide students with a strong foundation in the design and management of database systems in a business environment. In-depth practice of Structured Query Language (SQL) is provided in the context of business-related case studies. The Database Management program covers advanced database concepts, including database administration, database technology, database web programming and selection and acquisition of database management systems. Supporting courses allow students to gain a thorough understanding of necessary business communication skills, operating systems, programming logic and system design.

Associate in Science (A.S.) Degree, Database Management (Plan Code: 2127)

The Database Management Systems concentration includes coursework in the design, development and maintenance of relational databases. The program is designed to prepare students for employment in a computer field following graduation. Students wishing a Bachelors' degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze the data needs an organization or company and determine how to best organize and store the data in logical, secure, and accessible structures.
- Design web applications to access and manipulate data using MS Access, MySQL, MS SQL Server and PHP.
- Understand the roles and responsibilities of a database administrator and how to diagnose and troubleshoot systems.

REQUIRED COURSES		UNITS
BCOM 15	Business Communications	3
COSA 50	Introduction to IT Concepts and Applications	4
COSA 25	Microsoft Access for Windows	3
COSN 205	UNIX/LINUX Fundamentals	4
COSN 251	Database Essentials in Amazon Web Svcs	3
COSP 38	Database Concepts	4
COSP 237	Database Programming with SQL	4
TOTAL UNITS		25

Certificate of Achievement, Database Management (Plan Code: 3127)

The Database Management certificate of achievement provides the knowledge and skills required of data management professionals. This certificate will prepare students for a variety of roles suitable for an entry level position in database related employment. The program provides students with hands on experiences in enterprise standard database management systems. Students learn to use the SQL database programming language, create database objects, plan, and organize a database around a business need, normalize a relational database system, and provision in-house and cloud-based database solutions. Students may earn industry certificates as part of this certificate.

Program Student Learning Outcomes:

- Analyze the data needs an organization or company, and determine how to best organize and store the data in logical, secure and accessible structures.
- Design web applications to access and manipulate data using MS access, MySQL, MS SQL Server and PHP.
- Understand the roles and responsibilities of a database administrator, and how to diagnose and troubleshoot systems.

REQUIRED COURSES—Complete the **25 units** of required courses as listed in the Associate Degree in Database Management major requirements.

Certificate of Accomplishment, Database Administrator Specialist (Plan Code: 4080)

This certificate verifies a strong foundation in the design and management of modern database systems including Microsoft SQL Server, MySQL, and Oracle.

Program Student Learning Outcomes:

• Demonstrate the ability to install database software on a computer system and configure it for use.

REQUIRED COURSES		UNITS
COSA 25	Microsoft Access for Windows	3
COSP 38	Database Concepts	4
TOTAL UNITS		7

Certificate of Accomplishment, SQL Programmer Specialist (Plan Code: 4158)

This certificate features instructor-led exercises and practice in designing and running programs in ANSI/ISO standard Structured Query Language. Types of commands studied include DDL, DML, DQL, DCL, administration and transactional. Students may earn industry certificate of completion as part of this certificate.

Program Student Learning Outcomes:

• Design, run, and analyze new and existing SQL programs according to commonly practiced industry standards.

REQUIRED COURSES		UNITS
COSP 237	Database Programming with SQL	4
TOTAL UNITS		4

DIAGNOSTIC MEDICAL IMAGING (RADIOLOGIC TECHNOLOGY)

Radiologic Technologists make up the third-largest group of health care professionals—surpassed in number only by physicians and nurses. A primary responsibility of many technologists is to create images of patients' bodies using medical equipment. This helps doctors diagnose and treat diseases and injuries.

The Diagnostic Medical Imaging program (DMI) 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 Radiologic Technologist and an Associate in Science Degree. The program emphasizes the necessity of professional development and life-long learning as a competent and ethical health care professional.

This program requires the student to participate in clinical experience concurrent with DMI classroom courses. Clinical responsibilities will be arranged by the Diagnostic Medical Imaging program faculty and will include day, evening, and/or weekend assignments. The student receives no salary for this clinical experience but will receive course credit toward program completion.

Successful DMI program completion requires the following:

- 1. Completion of all required radiologic technology courses as outlined in the catalog, and
- 2. Completion of approximately 1,900 clinical hours, and
- 3. Completion of all requirements for an Associate in Science degree as required by Long Beach City College (Plan Code: 2612), OR possess an associate degree or higher.

Eligibility for the American Registry of Radiologic Technologists (ARRT) Radiography registry exam and California Department of Public Health - Radiological Health Branch (CDPH-RHB) CRT and Fluoroscopic permit examination are dependent upon meeting these requirements. Successful applicants have the right to use the title "Registered Radiologic Technologist" R.T. (R) CRT.

LBCC College Application Procedures

LBCC College applications to become a student are accepted on a continuous basis.

- 1. Apply for admission to the college through the Admissions Office (applications are available online at http://www.lbcc.edu/admissions)
- 2. Submit transcripts from high school and previous college work to the Admissions Office and the School of Health Sciences and Kinesiology.

DMI Program Application Requirements and Placement on the DMI Program Waitlist

Prospective students must apply to the college (see above) and become a registered LBCC College student first.

<u>DMI Program Applications and placement on the DMI Program waitlist are not accepted until the following prerequisites are</u> <u>met:</u>

- 1. Graduation from an accredited high school, or the equivalent.
- 2. Cumulative grade point average of 2.5 or higher in ALL college coursework.
- 3. Completion of AH 60, AH 61, and ANAT 41 within five years of the DMI application date with a letter grade of "C" or better.
- 4. Students MUST attend one of the DMI program monthly *information sessions* prior to application submission.
- 5. Complete the Diagnostic Medical Imaging program application form (in person only) and bring the completed application form and documentation to the School of Health Sciences and Kinesiology, Room C100 at the Liberal Arts Campus.
- 6. Students MUST keep the Admissions and Records office AND the School of Health Sciences and Kinesiology advised of their current email address, home address, and telephone number and any name changes. All changes MUST be submitted in writing.
- 7. All applicants will be notified by email regarding the status of their applications.

DMI program applications are accepted on a continual basis.

The DMI program typically has a waitlist of applicants. We HIGHLY suggest that the candidate complete the application requirements and apply to the DMI program first. Placement on the DMI waitlist is based upon application submission date. While the candidate is on the waitlist, we suggest that they complete their associate degree courses and take the ATI TEAS exam.

Information Session

The Diagnostic Medical Imaging program (DMI) holds monthly information sessions from September to June (EXCEPT JANUARY). Please look up times, days, and locations of the information sessions on the LBCC website under "explore our programs" then "Health" and then "DMI Program/Radiology." You may also contact the Allied Health Office, DMI program director, Allied Health Coordinator, or the counseling office.

 Students MUST attend one of the DMI program information sessions before their DMI application is accepted. If a student submits a DMI application prior to attending one of the information sessions, their application submission date will be changed to the date when they attended the DMI information session. Placement on the DMI waitlist is based upon application submission date. 2. Students who need additional information about the DMI program are welcome to attend.

DMI Program Waitlist

Candidates are placed on a waitlist based upon completed application submission date. Applicants who do not attempt the TEAS exam within one year of the application date will have their applications removed off the waitlist.

ATI TEAS Exam (Test of Essential Academic Skills)

At the time of applying to the DMI program in person at the Allied Health Office (Building C, room 100), applicants will have the opportunity to acquire information on the TEAS Exam, TEAS help, and TEAS examination dates. TEAS exams **MUST** be scheduled through the Allied Health Office and are offered 4 times per year. The applicant has 3 attempts to pass the TEAS exam with a score of 62% or higher. The cost per exam is about \$60.00. If the applicant does not attempt the TEAS exam within one-year of the application date, the applicant's application will be removed. If the candidate wishes to re-enter the waitlist, they would have to re-apply to the DMI program and be placed on the waitlist based on their new application date.

General Information Items

- 1. A strong command of the English language, both written and verbal, is essential for successful completion of the program.
- 2. Evidence of physical and emotional fitness by medical examination and personal interview. This is submitted in the summer of the 1st year of the DMI program.
- 3. A current and clear background check, AHA BLS Provider CPR card, vaccinations, flu shot, TB test,

LBCC physical health form, drug test, and malpractice insurance are required also during the summer of the 1st year. (An unclear background may prevent the student from completing clinical requirements and jeopardize ARRT and CDPH certification.)

4. The program is 30 months in length, beginning each spring semester. Each student must complete approximately 1,900 hours of clinical practicum and approximately 1,800 hours of didactic courses. Most courses are conducted Monday through Saturday. Most courses are between 6 AM and 10 PM.

DMI Program Admission Requirements and Selection Process

The following is considered in the selection process during the month of November for the following spring DMI program class:

- 1. Date of DMI program application.
- 2. Either completion of the LBCC General Education requirements for an Associate Degree Plan A, B, or C

OR possess an associate degree or higher.

- 3. Must pass within three attempts and within 3 years of the DMI application date the ATI TEAS (Test of Essential Academic Skills) exam with a score of 62% or higher. Older TEAS versions are not accepted.
- 4. Provisionally accepted students must attend the MANDATORY DMI ADVISORY meeting, scheduled in December, prior to the DMI program starting in the spring semester in order to progress in the DMI program.*^

*Due to their service to our country and time away from public life, up to 2 veterans per year are given immediate placement into the next available DMI Program class, upon completion of the following:

- 1. DMI program application submission
- 2. Completion of items # 2, 3, and 4 under "DMI Program Admission Requirements and Selection Process"

[^] The DMI program participates with the Promised Pathways Program for Long Beach Unified High School District. Placement into the DMI promise pathway is awarded based upon specific criteria (Contact DMI program Director for details).

Upon Acceptance to the DMI Program

Every accepted applicant must provide a current criminal background check, complete vaccinations, obtain an AHA Healthcare Provider BLS CPR card, obtain liability insurance, complete a drug test, complete the health evaluation form, be able to perform essential physical functions, and complete a latex allergy form. Additional information regarding this is provided at program acceptance. The background check will include criminal offense, criminal history, sex offender check, and social security trace. (An unclear background may prevent the student from being accepted into one of our affiliated clinical facilities as well as completing clinical requirements.)

Upon Completion of the DMI Program

Upon program completion, the DMI program graduate is eligible to take the American Registry of Radiologic Technologists (ARRT) national certification exam. Through the California Department of Public Health –Radiological Health Branch (CDPH-RHB), California State CRT certification is awarded upon passing the ARRT Radiography exam, applying for the CRT certification, and making payment for the CRT certificate. Once obtaining the CRT certification, graduates are eligible to take the CDPH Fluoroscopy permit exam. When the above is completed, the DMI program graduate will have the right to use the title "Registered Radiologic Technologist" R.T. (R) CRT and may pursue further education through an educational institute or on-the-job training in Ultrasound, Nuclear Medicine, Radiation Therapy, Interventional Radiology, Cardiac Cath Lab, Mammography, MRI, CT, Management, or Radiography education. Information about graduate courses/schools may be obtained at www.arrt.org or www.asrt.org or the California Department of Public Health at www.cdph.ca.gov.

Accreditation and Program Approvals

Long Beach City College is accredited by the Accrediting Commission of Community and Junior Colleges of the Western Association of Schools and Colleges. The Diagnostic Medical Imaging (DMI) program is approved by the American Registry of Radiologic Technologists (ARRT) and the California Department of Public Health – Radiologic Health Branch (CDPH-RHB).

Eligibility for the ARRT Exam

Eligibility for the ARRT examination requires the candidate to complete an ARRT approved Radiology program, possess a minimum of an associate degree, and be of good moral character. Conviction of a misdemeanor or felony may disqualify the candidate. An Ethics pre-application review may be pursued by contacting the ARRT at <u>www.ARRT.org</u>. There are specific parameters regarding the charge or conviction of a felony or misdemeanor. An applicant may contact the ARRT to determine if he/she will be disqualified due to legal circumstances. The process to determine eligibility is titled "ETHICS PRE-APPLICATION REVIEW" and the cost is approximately \$100.00.

Associate in Science (A.S.) Degree, Diagnostic Medical Imaging (Radiologic Technology) (Plan Code: 2612)

This degree is designed to prepare the student for Certification by the California Department of Public Health, Radiological Health Branch (CRT), California Fluoroscopy Permit, and Registration by the American Registry of Radiological Technologists (ARRT) after testing. The ARRT 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.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- 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 resulting 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.
- Manage proper patient positioning of the skeletal system, cranium, and viscera to achieve industry standard radiograph.
- Demonstrate ability to properly use all equipment required to produce a diagnostic radiograph; produce an

industry standard and diagnostic radiograph.

• Demonstrate understanding of the knowledge and skills necessary to function as professional, ethical, accurate, and reliable members of the Radiology health care team.

Prerequisite Courses

The following courses must be completed within five years prior to the first Spring Semester of the program:

REQUIRED COURSE ANAT 41 AH 60 AH 61	S Anatomy & Physiology Medical Terminology Integration of Patient Care	UNITS 5 3 2
TOTAL UNITS		10
DMI Program Cour	se Schedule	
FIRST YEAR Spring Semester RI DMI 10 DMI 403 Subtotal Units	EQUIRED COURSES: Introduction to Radiologic Technology Cross-Sectional Anatomy	3 3 6
Summer Session R DMI 20 Subtotal Units	EQUIRED COURSES: Introduction to Radiologic Physics	3 3
Fall Semester REQU DMI 11 DMI 12 DMI 21 DMI 30 Subtotal Units	JIRED COURSES: Radiographic Techniques Contrast Fluoroscope/Radiographic Proced. Applied Radiological Physics Positioning for General Diagnostic Rad	1 3 2 3 9
Winter Session REC DMI 40A Subtotal Units	QUIRED COURSES: Clinical Radiography	2.5 2.5
Spring Semester RI DMI 24 DMI 31 DMI 40B DMI 60 Subtotal Units	EQUIRED COURSES: Radiation: Biology and Protection Positioning for Cranial Radiography Clinical Radiography Radiologic Pathology	3 3 7.5 3 16.5
SECOND YEAR Summer Session R DMI 40C Subtotal Units	EQUIRED COURSES: Clinical Radiography	6 6
Fall Semester REQU DMI 15 DMI 40D DMI 222 Subtotal Units	JIRED COURSES: Computer Applications in Radiology Clinical Radiography Venipuncture for Medical Imaging	3 11 .5 14.5

Winter Session REQUIRED COURSES:			
DMI 61	Fluoroscopy	2	
Subtotal Units		2	
Spring Semester R			
DMI 14	Trends and Self-Assessment in Rad Tech	3	
DMI 40E	Clinical Radiography	11	
Subtotal Units		14	
Required Major		73.5	
, ,	Application Prerequisite Courses	10	
TOTAL UNITS		83.5	
Additional Informa	tion:		
General Education Associate Degree (LBCC Plan A, Plan B, or Plan C) 18-35 units			
TOTAL UNITS INCL	UDING GE 101	.5 – 118.5 units	
RECOMMENDED b	ut not required courses:		
DMI 62	Mammography	3.5	
LEARN 11/11H	Learning and Academic Strategies/Honors	3	

Certificate of Achievement, Diagnostic Medical Imaging (Radiologic Technology) (Plan Code: 3612)*

The courses within the Certificate of Achievement in DMI will prepare the student for Certification by the California Department of Public Health, Radiological Health Branch (CRT), California Fluoroscopy Permit, and Registration by the American Registry of Radiological Technologists (ARRT) after testing. The ARRT 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.

Program Student 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 resulting 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.
- Manage proper patient positioning of the skeletal system, cranium, and viscera to achieve industry standard radiograph.
- Demonstrate ability to properly use all equipment required to produce a diagnostic radiograph; produce an industry standard and diagnostic radiograph.
- Demonstrate understanding of the knowledge and skills necessary to function as professional, ethical, accurate, and reliable members of the Radiology health care team.

REQUIRED COURSES—Complete the **83.5 units** of required courses as listed in the DMI program curriculum - required major plus required program application prerequisite courses.

*Students who possess an associate degree or higher are eligible for the Certificate of Achievement option. Students who choose this option must still follow the DMI program application and waitlist process listed above in "DMI Program Application Requirements and Placement on the DMI Program Waitlist." Students who choose this option are selected from the waitlist in the same manner as all other DMI program applicants.

ADVANCED MEDICAL IMAGING PROGRAMS

Entry into either the CT or MRI program requires that applicants possess their ARRT credentials in an ARRT Primary Certification (Radiography, Nuclear Medicine, Radiation Therapy, or Ultrasound) and possess an associate degree or higher. ARMRIT certification is not accepted.

Certificate of Accomplishment, Computed Tomography (Plan Code: 4045)

The courses within the Certificate of Accomplishment in CT will qualify the student to be eligible to take the ARRT postprimary examination in Computerized Tomography.

Program Student Learning Outcomes:

Demonstrate competent computerized tomography examinations for specific anatomical structures, patient symptoms, or pathology.

REQUIRED COURSES

REQUIRED COURSES		UNITS
DMI 403	Cross-Sectional Anatomy	3
DMI 404	MRI/CT Pathology	3
DMI 405A	MRI Clinical Practicum	2.5
DMI 405B	MRI Clinical Practicum	2.5
DMI 406	Computed Tomography Physics	3
DMI 407	Computed Tomography Procedures	3
TOTAL UNITS		17

Certificate of Accomplishment, Magnetic Resonance Imaging Technologist (Plan Code: 4613)

The courses within the Certificate of Accomplishment in MRI will qualify the student to be eligible to take the ARRT Post-Primary examination in MRI.

Program Student Learning Outcomes:

Demonstrate a mastery of medical-imaging skills in MRI.

REQUIRED COURSES		UNITS
DMI 401	Physical Principles of MRI	3
DMI 402	Magnetic Resonance Imaging Procedure	3
DMI 403	Cross-Sectional Anatomy	3
DMI 404	MRI/CT Pathology	3
DMI 405A	MRI Clinical Practicum	2.5
DMI 405B	MRI Clinical Practicum	2.5
TOTAL UNITS		17

DIGITAL DESIGN AND PUBLICATION

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.

Associate in Arts (A.A.) Degree, Digital Design and Publication (Plan Code: 1023)

Students learn to write, design, and produce publications (websites, fliers, brochures, newsletters, in-house magazines). 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 Associate degree prepares students for career advancement once a certificate has been earned. Appropriate course selection may also facilitate transfer in a related major.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Write, design, and produce a publication.
- Prepare students for entry-level positions in desktop publishing.

REQUIRED COURSES		UNITS
JOURN 1A	Digital Design and Publication	3
JOURN 25	Free-Lance Writing	3
Subtotal Units		6

IN ADDITION, Complete TWELVE to FOURTEEN (12-14) units from the following:

TOTAL UNITS		18-20
Subtotal Units		12-14
JOURN 88	Multimedia Editor Training: Management	4
JOURN 87	Multimedia Editors: Visuals	4
JOURN 86	Multimedia Editors: Design	4
JOURN 83	Multimedia Newsroom: Politics	4
JOURN 82	Multimedia Newsroom: Profiles	4
JOURN 81	Multimedia Newsroom: Features	4
JOURN 80	Multimedia Newsroom: News	4
JOURN 40	Social Media in Journalism	3
JOURN 20	Beginning Newswriting and Reporting	4
JOURN 6	Magazine Writing	3
JOURN 5	Introduction to Public Relations	4
JOURN 1B	Digital Design and Publication	3

Certificate of Achievement, Digital Design and Publication (Plan Code: 3023)

This Certificate of Achievement prepares students for an entry-level position in a variety of business settings and serves as a foundation for specialization.

Program Student Learning Outcomes:

- Write, design, and produce a publication.
- Prepare students for entry-level positions in desktop publishing.

REQUIRED COURSES—Complete the **18-20 units** of required courses as listed in the Associate Degree in Digital Design and Publication major requirements.

DIGITAL MEDIA ARTS

Certificate of Achievement, Photography Digital Media: Advanced Production (Plan Code: 3256)

The Photography Digital Media: Advanced Production program is an interdisciplinary program that builds on the Fundamentals of Digital Media Arts certificate and is designed to prepare students for entry and mid-level employment in Digital Media Production. Entry-level Digital Media Production artists can begin a career in the fields of film (TV, Web and Film), imaging (editorial, commercial, artistic, retail, comic) and video. Students completing this certificate will be able to demonstrate the creation of digital media projects using creative and technical skills. An emphasis is placed on learning to collaborate across multiple disciplines and creating a balance between creative and technical skills.

Program Student Learning Outcomes:

• Demonstrate an understanding of pre-production, production, and post-production digital media processes.

REQUIRED COURSES		UNITS
PHOT 32	Introduction to Digital Photography	4
PHOT 33	Photography Studio Lighting	4
PHOT 43	Photoshop and Digital Image Management	3
Subtotal Units		11
IN ADDITION, com	plete FOUR (4) courses from the following:	
PHOT 34	Advanced Photography and Digital Media	4
PHOT 35	Photography for Publication	3
PHOT 37	Portrait Photography	4
PHOT 39	Photography on Location	3
PHOT 41	Professional Photographic Portfolio	4
FILM 21	Intermediate Digital Film Production	3
FILM 25	Introduction to Digital Cinematography	3
R_TV 12	Television Lighting	2.5
R_TV 34	Music Video Production	2.5
Subtotal Units		11-15
TOTAL UNITS		22-26

Certificate of Achievement, Digital Media: Interactive Design and Animation (Plan Code: 3255)

The Digital Media Interactive Design and Animation program builds on the Fundamentals of Digital Media Arts certificate and is designed to prepare students for entry-level and self-employment in interactive media design fields.

- Communicate in speech and in writing about the history, theories, disciplines, and practices of interactive media design arts.
- Demonstrate an understanding of concept, design and creation of interactive media projects.

REQUIRED COURSES		UNITS
ART 42	Introduction to Multimedia Design	3
ART 43	Beginning Website Design	3
ART 47	Computer Animation and Multimedia	3
ART 56	Introduction to Typography	1.5
Subtotal Units		10.5

IN ADDITION, complete TWELVE to FIFTEEN (12-15) units from the following:

ART 46	Computer Art & Design in 3D Modeling	3
ART 48	Computer Art & Design for TV and Video	3
ART 49	Special Studies-Computer Art and Design	3
FILM 21	Intermediate Digital Film Production	3
FILM 25	Introduction to Digital Cinematography	3
PHOT 43	Photoshop and Digital Image Management	3
Subtotal Units		12-15
TOTAL UNITS		22.5-25.5

ELECTRICAL TECHNOLOGY

The Electrical Department educates its students in all areas of Industrial Electrical Technology in response to the needs of industry National Electrical Code standards.

Admission Procedures

Students interested in the Electrical Technology program are required to complete the Program Orientation Session prior to registering for any classes. Exceptions to this requirement are made for students in Sheet Metal or students in other nonelectrical trades programs who want to enroll in ELECT 202; these students may contact Scott Fraser at <u>sfraser@lbcc.edu</u> for the Prerequisite Waiver form. At the Orientation, students will have the opportunity to complete a 50 question online electrical math test that will be used as an advisory tool for choosing the appropriate electrical math class. Students who have completed any college math classes should bring unofficial transcripts so that their classes can be evaluated as substitutes for the Electrical math classes. Students are allowed to switch from the day or evening programs with instructor and Department Head approvals. Faculty recommend that students are eligible to enroll in ENGL 801 and READ 881 before joining the program. In addition, it is recommended that students have a valid CPR card or are concurrently enrolled in a CPR class while enrolled in Electricity courses.

Certificate of Achievement, Electrical Apprenticeship Preparation (Plan Code: 3954)

The Electrical Apprenticeship Preparation Certificate of Achievement will prepare students for entry into union electrical apprenticeship programs. Emphasis is placed on successful electrical calculations, safety and the ability to document testing procedures. This is a stand-alone Certification of Achievement and is not part of the Certificates of Achievement required for the Electrical Technology Certificate of Achievement. Limitation on Enrollment - New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

• Demonstrate the ability to solve basic electrical calculations and communicate results in detailed summary reports.

REQUIRED COURSES		UNITS
ELECT 225	Algebra and Trigonometry for Technician	4
ELECT 253	OSHA Standards for Construction Safety	2
ELECT 204	First Semester Fundamentals of DC Electricity	4
ELECT 275	Electrical Pipe Bending	1
ELECT 240	Introduction to the National Electrical Code	3
TOTAL UNITS		14

Certificate of Accomplishment, Network Cabling Specialist (Plan Code: 4089)

Students earning this CISCO award have demonstrated knowledge and understanding of national cabling installation standards and best practices. This CISCO award is intended for vocational students preparing for immediate employment as a low-voltage communications cabling installer.

Program Student Learning Outcomes:

- Build a fiber and copper corporate backbone network between a Main Telecommunications closet and a Distributed Telecom closet and test all connectivity by placing data hosts at both ends and run connectivity tests between them.
- Provide a completed documentation system that will be usable by any industry professional in the data and telephony field, for the service of any moves, adds and changes on that same infrastructure.

REQUIRED COURSES		UNITS
CISCO 250	Communications Cabling Installation	2
TOTAL UNITS		2

Certificate of Completion, Electrical Program Preparation (Plan Code: 4955)

The Electrical Program Preparation NonCredit Certificate of Completion is designed to provide students an orientation into the Electrical Program where expectations and program safety are covered, to provide time to work on math skills until necessary concepts are learned in order to increase success in the program of choice, and to learn specific computer applications needed in order to develop and build an industry standard lab report. Program Student Learning Outcomes:

• Recognize basic safety and technical requirements for the Electrical Technology Program.

REQUIRED COURSES		HOURS
ELECT 600	Electrical Program & Safety Preparation	9
ELECT 601	Computer Applications for Tech Reports	54
ELECT 602	Electrical Mathematics	54
TOTAL HOURS		90

ELECTRICAL TECHNOLOGY, AUTOMATION TECHNICIAN

Associate in Science (A.S.) Degree, Electrical Technology, Automation Technician (Plan Code: 2991)

The Associate in Science in Electrical Technology, Automation Technician will prepare students for entry-level employment in the automation systems maintenance and troubleshooting industry. This includes work in Advanced Manufacturing Facilities and companies that use underwater robots. The techniques used in both industries are similar and there is significant crossover between the two. Upon completion the student will be able to install, maintain, and repair automation systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop procedures for the successful installation, maintenance and troubleshooting of robotic, PLC and automation control systems.

REQUIRED COURS	ES	UNITS
ELECT 253	OSHA Standards for Construction Safety	2
ELECT 225	Algebra and Trigonometry for Technicians	4
ELECT 204	First Semester Fundamentals of DC Electricity	4
ELECT 240	Introduction to National Electrical Code	3
ELECT 209	Second Sem Fund of Motors/Generators	4
ELECT 435A	Motor Control Wiring and Troubleshooting	2
ELECT 212	Third Semester Fund of AC Electricity	4
ELECT 214	Fourth Semester AC Principles & Pract	4
ELECT 242	Electrical Code-Grounding	1.5
Subtotal Units		28.5
IN ADDITION, com	plete the following:	
ELECT 227	Variable Speed Drive Fundamentals	2
ELECT 230A	Robotics Technology-Design	2
ELECT 230B	Robotics Technology-Integration	2
ELECT 231	Electro-Hydraulics and Pneumatic Systems	2
ELECT 256	High Voltage Safety Awareness	1
ELECT 435B	Programmable Logic Controllers (PLC) 1	2
Subtotal Units		11
TOTAL UNITS		39.5

Certificate of Achievement, Electrical Technology, Automation Technician (Plan Code: 3991)

The Electrical Technology, Automation Technician Certificate of Achievement will prepare students for entry-level employment in the automation systems maintenance and troubleshooting industry. This includes work in Advanced Manufacturing Facilities and companies that use underwater robots. The techniques used in both industries are similar and there is significant crossover between the two. Upon completion of the Electrical Technology Certificate of Achievement and the Automation Technician Certificate of Achievement, the student will be able to install, maintain, and repair automation systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

• Develop procedures for the successful installation, maintenance and troubleshooting of robotic, PLC and automation control systems.

REQUIRED COURSES–Complete the **39.5 units** of required courses as listed in the Associate Degree in Electrical Technology, Automation Technician major requirements.

Certificate of Achievement, Automation Technician (Plan Code: 3931)

The Automation Technician Certificate of Achievement will prepare students for entry-level employment in the automation systems maintenance and troubleshooting industry. This includes work in Advanced Manufacturing Facilities and companies that use underwater robots. The techniques used in both industries are similar and there is significant crossover between the two. Upon completion the student will be able to install, maintain, and repair automation systems in a safe and workmanlike manner.

Program Student Learning Outcomes:

• Develop procedures for the successful installation, maintenance and troubleshooting of robotic, PLC and automation control systems.

REQUIRED COURSES		UNITS
ELECT 227	Variable Speed Drive Fundamentals	2
ELECT 230A	Robotics Technology-Design	2
ELECT 230B	Robotics Technology-Integration	2
ELECT 231	Electro-Hydraulics and Pneumatic Systems	2
ELECT 256	High Voltage Safety Awareness	1
ELECT 435B	Programmable Logic Controllers (PLC) 1	2
TOTAL UNITS		11

ELECTRICAL TECHNOLOGY, CISCO CERTIFIED NETWORK INSTALLATION ASSOCIATE

Associate in Science (A.S.) Degree, Electrical Technology, CISCO Certified Network Installation Associate (Plan Code: 2992)

The Associate Degree Electrical Technology, CISCO Certified Network Installation will prepare students for entry-level employment in the networking installation and troubleshooting industry. This includes industries that implement internet protocol for factory automation and residential automation control systems. Upon completion the student will be able to install, maintain, and repair CISCO networking equipment and systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop procedures for the successful installation, maintenance and troubleshooting of CISCO related network infrastructure.

REQUIRED COURS	SES	UNITS
ELECT 253	OSHA Standards for Construction Safety	2
ELECT 225	Algebra and Trigonometry for Technicians	4
ELECT 204	First Semester Fundamentals of DC Electricity	4
ELECT 240	Introduction to National Electrical Code	3
ELECT 209	Second Sem Fund of Motors/Generators	4
ELECT 435A	Motor Control Wiring and Troubleshooting	2
ELECT 212	Third Semester Fund of AC Electricity	4

ELECT 214	Fourth Semester AC Principles & Pract	4
ELECT 242	Electrical Code-Grounding	1.5
Subtotal Units		28.5
IN ADDITION, comp	plete the following:	
CISCO 250	Communications Cabling Installation	2
CISCO 251	Introduction to Networks	2
CISCO 252	Switching Routing Wireless Essentials	2
CISCO 253	Enterprise Network Security Automation	2
Subtotal Units		8
TOTAL UNITS		36.5

Certificate of Achievement, Electrical Technology, CISCO Certified Network Installation Associate (Plan Code: 3992)

The Electrical Technology, CISCO Certified Network Installation Associate Certificate of Achievement will prepare students for entry-level employment in the networking installation and troubleshooting industry. This includes industries that implement internet protocol for factory automation and residential automation control systems. Upon completion of the Electrical Technology Certificate of Achievement and the CISCO Certified Network Installation Associate Certificate of Achievement, the student will be able to install, maintain, and repair CISCO networking equipment and systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

• Develop procedures for the successful installation, maintenance and troubleshooting of CISCO related network infrastructure.

REQUIRED COURSES—Complete the **36.5 units** of required courses as listed in the Associate Degree in Electrical Technology, CISCO Certified Network Installation Associate major requirements.

Certificate of Achievement, CISCO Certified Network Installation Associate (Plan Code: 3932)

The CISCO Certified Network Installation Associate Certificate of Achievement will prepare students for entry-level employment in the networking installation and troubleshooting industry. This includes industries that implement internet protocol for factory automation and residential automation control systems. Upon completion of the Electrical Technology Certificate of Achievement and the CISCO Certified Network Installation Associate Certificate of Achievement, the student will be able to install, maintain, and repair CISCO networking equipment and systems in a safe and workmanlike manner.

Program Student Learning Outcomes:

• Develop procedures for the successful installation, maintenance and troubleshooting of CISCO related network infrastructure.

REQUIRED COURSES		UNITS
CISCO 250	Communications Cabling Installation	2
CISCO 251	Introduction to Networks	2
CISCO 252	Switching Routing Wireless Essentials	2
CISCO 253	Enterprise Network Security Automation	2
TOTAL UNITS		8

ELECTRICAL TECHNOLOGY, GENERAL INDUSTRIAL ELECTRICIAN

Associate in Science (A.S.) Degree, Electrical Technology, General Industrial Electrician (Plan Code: 2993)

The Associate Degree in Electrical Technology, General Industrial Electrician will prepare students for entry-level employment in the electrical maintenance and troubleshooting industry. Upon completion the student will be able to install, maintain, and repair electrical systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop procedures for the successful installation, maintenance and troubleshooting of electrical systems.

REQUIRED COURS	ES	UNITS
ELECT 253	OSHA Standards for Construction Safety	2
ELECT 225	Algebra and Trigonometry for Technicians	4
ELECT 204	First Semester Fundamentals of DC Elect	4
ELECT 240	Introduction to National Electrical Code	3
ELECT 209	Second Sem Fund of Motors/Generators	4
ELECT 435A	Motor Control Wiring and Troubleshooting	2
ELECT 212	Third Semester Fund of AC Electricity	4
ELECT 214	Fourth Semester AC Principles & Pract	4
ELECT 242	Electrical Code-Grounding	1.5
Subtotal Units		28.5
IN ADDITION, com	plete the following:	
ELECT 245	Electrical Code-Commercial	3
ELECT 250	Electrical Code – Industrial	3
ELECT 271	Electrical Cost Estimating 1	3
ELECT 275	Electrical Pipe Bending	1
ELECT 277	Blueprint Reading for Electricians	3
Subtotal Units		13
TOTAL UNITS		41.5

Certificate of Achievement, Electrical Technology, General Industrial Electrician (Plan Code: 3993)

The Electrical Technology, General Industrial Electrician Certificate of Achievement will prepare students for entry-level employment in the electrical maintenance and troubleshooting industry. Upon completion the student will be able to install, maintain, and repair electrical systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

• Develop procedures for the successful installation, maintenance and troubleshooting of electrical systems.

REQUIRED COURSES—Complete the **41.5 units** of required courses as listed in the Associate Degree in Electrical Technology, General Industrial Electrician major requirements.

Certificate of Achievement, General Industrial Electrician (Plan Code: 3933)

The General Industrial Electrician Certificate of Achievement will prepare students for entry-level employment in the electrical maintenance and troubleshooting industry. Upon completion, the student will be able to install, maintain, and repair electrical systems in a safe and workmanlike manner.

Program Student Learning Outcomes:

• Develop procedures for the successful installation, maintenance and troubleshooting of electrical systems.

UNITS

REQUIRED COURSES

	1020	0.0.0
ELECT 245	Electrical Code-Commercial	3
ELECT 250	Electrical Code – Industrial	3
ELECT 271	Electrical Cost Estimating 1	3
ELECT 275	Electrical Pipe Bending	1
ELECT 277	Blueprint Reading for Electricians	3
TOTAL UNITS		13

ELECTRICAL TECHNOLOGY, HIGH VOLTAGE TEST TECHNICIAN

Associate in Science (A.S.) Degree, Electrical Technology, High Voltage Test Technician (Plan Code: 2995)

The Associate in Science in High Voltage Test Technician will prepare students for entry-level employment in the high voltage testing and certification industry. NETA (InterNational Electrical Testing Association) is a group of member companies that specialize in the testing and certification of high voltage power distribution equipment. Upon completion of the Electrical Technology Certificate of Achievement and the High Voltage Test Technician Certificate of Achievement, the student will be able to test, maintain, and repair high voltage electrical systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop procedures for the successful maintenance and troubleshooting of high voltage electrical switchgear, over- current protection and power distribution systems.

REQUIRED COURSES		UNITS
ELECT 253	OSHA Standards for Construction Safety	2
ELECT 225	Algebra and Trigonometry for Technicians	4
ELECT 204	First Semester Fundamentals of DC Electricity	4
ELECT 240	Introduction to National Electrical Code	3
ELECT 209	Second Sem Fund of Motors/Generators	4

ELECT 435A	Motor Control Wiring and Troubleshooting	2
ELECT 212	Third Semester Fund of AC Electricity	4
ELECT 214	Fourth Semester AC Principles & Pract	4
ELECT 242	Electrical Code-Grounding	1.5
Subtotal Units		28.5
IN ADDITION, com	plete the following:	
ELECT 250	Electrical Code – Industrial	3
ELECT 256	High Voltage Safety Awareness	1
ELECT 265	Conductors	2
ELECT 266	Circuit Breakers	2
ELECT 267	Switchgear and Switchboards	2
ELECT 268	Transformers	2
Subtotal Units		12
TOTAL UNITS		40.5

Certificate of Achievement, Electrical Technology, High Voltage Test Technician (Plan Code: 3995)

The High Voltage Test Technician Certificate of Achievement will prepare students for entry-level employment in the high voltage testing and certification industry. NETA (InterNational Electrical Testing Association) is a group of member companies that specialize in the testing and certification of high voltage power distribution equipment. Upon completion of the Electrical Technology Certificate of Achievement and the High Voltage Test Technician Certificate of Achievement, the student will be able to test, maintain, and repair high voltage electrical systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

• Develop procedures for the successful maintenance and troubleshooting of high voltage electrical switchgear, over- current protection and power distribution systems.

REQUIRED COURSES—Complete the **40.5 units** of required courses as listed in the Associate Degree in Electrical Technology, High Voltage Test Technician major requirements.

Certificate of Achievement, High Voltage Test Technician (Plan Code: 3935)

The High Voltage Test Technician Certificate of Achievement will prepare students for entry-level employment in the high voltage testing and certification industry. NETA (InterNational Electrical Testing Association) is a group of member companies that specialize in the testing and certification of high voltage power distribution equipment. Upon completion of the Electrical Technology Certificate of Achievement and the High Voltage Test Technician Certificate of Achievement, the student will be able to test, maintain, and repair high voltage electrical systems in a safe and workmanlike manner.

Program Student Learning Outcomes:

• Develop procedures for the successful maintenance and troubleshooting of high voltage electrical switchgear, over- current protection and power distribution systems.

REQUIRED COURSES		UNITS
ELECT 250	Electrical Code – Industrial	3
ELECT 256	High Voltage Safety Awareness	1
ELECT 265	Conductors	2
ELECT 266	Circuit Breakers	2
ELECT 267	Switchgear and Switchboards	2
ELECT 268	Transformers	2
TOTAL UNITS		12

ELECTRICAL TECHNOLOGY, SOLAR INSTALLATION AND MAINTENANCE

Associate in Science (A.S.) Degree, Electrical Technology, Solar Installation and Maintenance (Plan Code: 2994)

The Associate Degree in Solar Installation and Maintenance will prepare students for entry-level employment in the solar electrical industry. Upon completion the student will be able to install, maintain, and repair solar electrical equipment and systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs). ٠
- Analyze various types of solar power generation systems and demonstrate the ability to properly size systems to • meet demand.

REQUIRED COURS	ES	UNITS
ELECT 253	OSHA Standards for Construction Safety	2
ELECT 225	Algebra and Trigonometry for Technicians	4
ELECT 204	First Semester Fundamentals of DC Electricity	4
ELECT 240	Introduction to National Electrical Code	3
ELECT 209	Second Sem Fund of Motors/Generators	4
ELECT 435A	Motor Control Wiring and Troubleshooting	2
ELECT 212	Third Semester Fund of AC Electricity	4
ELECT 214	Fourth Semester AC Principles & Pract	4
ELECT 242	Electrical Code-Grounding	1.5
Subtotal Units		28.5
IN ADDITION. com	plete the following:	
ELECT 247	Electrical Code-Solar	1
ELECT 256	High Voltage Safety Awareness	1
ELECT 262	Solar 1 – Grid-Tied Solar Photovoltaics	3
ELECT 263	Solar 2 – Advanced Solar Photovoltaics	3
ELECT 277	Blueprint Reading for Electricians	3
ELECT 275	Electrical Pipe Bending	1
Subtotal Units		12
		40 F
TOTAL UNITS		40.5

Certificate of Achievement, Electrical Technology, Solar Installation and Maintenance (Plan Code: 3994)

The Certificate of Achievement in Solar Installation and Maintenance will prepare students for entry-level employment in the solar electrical industry. Upon completion of the Electrical Technology Certificate of Achievement and the Solar Installation and Maintenance Certificate of Achievement, the student will be able to install, maintain, and repair solar electrical equipment and systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

• Analyze various types of solar power generation systems and demonstrate the ability to properly size systems to meet demand.

REQUIRED COURSES—Complete the **40.5 units** of required courses as listed in the Associate Degree in Electrical Technology, Solar Installation and Maintenance major requirements.

Certificate of Achievement, Solar Installation and Maintenance (Plan Code: 3934)

The Certificate of Achievement in Solar Installation and Maintenance will prepare students for entry-level employment in the solar electrical industry. Upon completion of the Electrical Technology Certificate of Achievement and the Solar Installation and Maintenance Certificate of Achievement, the student will be able to install, maintain, and repair solar electrical equipment and systems in a safe and workmanlike manner.

Program Student Learning Outcomes:

• Analyze various types of solar power generation systems and demonstrate the ability to properly size systems to meet demand.

REQUIRED CO	JRSES	UNITS
ELECT 247	Electrical Code-Solar	1
ELECT 256	High Voltage Safety Awareness	1
ELECT 262	Solar 1 – Grid-Tied Solar Photovoltaics	3
ELECT 263	Solar 2 – Advanced Solar Photovoltaics	3
ELECT 277	Blueprint Reading for Electricians	3
ELECT 275	Electrical Pipe Bending	1
TOTAL UNITS		12

ELECTRICAL TECHNOLOGY, TRAFFIC SIGNAL TECHNICIAN

Associate in Science (A.S.) Degree, Electrical Technology, Traffic Signal Technician (Plan Code: 2996)

The Associate in Science in Electrical Technology, Traffic Signal Technician will prepare students for entry-level employment in the traffic signal maintenance and troubleshooting industry. Most of this work is done by technicians employed by cities where the traffic signal systems are located. Upon completion the student will be able to install, maintain, and repair traffic signal systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop procedures for the successful installation, maintenance and troubleshooting of Traffic Signal systems.

REQUIRED COL	JRSES	UNITS
ELECT 253	OSHA Standards for Construction Safety	2
ELECT 225	Algebra and Trigonometry for Technicians	4
ELECT 204	First Semester Fundamentals of DC Electricity	4
ELECT 240	Introduction to the National Electrical Code	3
ELECT 209	Second Sem Fund of Motors/Generators	4
ELECT 435A	Motor Control Wiring and Troubleshooting	2
ELECT 212	Third Semester Fund of AC Electricity	4
ELECT 214	Fourth Semester AC Principles & Pract	4
ELECT 242	Electrical Code – Grounding	1.5
Subtotal Units		28.5
IN ADDITION, complete the following:		
FLECT 280	Traffic Signal Systems 1	З

ELECT 280	Traffic Signal Systems 1	3
ELECT 284	Traffic Signal Controllers & Digital Systems	3
ELECT 285	Traffic Signal Inspection and Safety	2
ELECT 275	Electrical Pipe Bending	1
ELECT 256	High Voltage Safety Awareness	1
Subtotal Units		10
TOTAL UNITS		38.5

Certificate of Achievement, Electrical Technology, Traffic Signal Technician (Plan Code: 3996)

The Electrical Technology, Traffic Signal Technician Certificate of Achievement will prepare students for entry-level employment in the traffic signal maintenance and troubleshooting industry. Most of this work is done by technicians employed by cities where the traffic signal systems are located. Upon completion the student will be able to install, maintain, and repair traffic signal systems in a safe and workmanlike manner.

Program Admission Requirement

New students must attend an Electrical orientation prior to enrollment. The program requisite is in place to ensure the safety and health awareness of LBCC electrical students.

Program Student Learning Outcomes:

• Develop procedures for the successful installation, maintenance and troubleshooting of Traffic Signal systems.

REQUIRED COURSES–Complete the **38.5 units** of required courses as listed in the Associate Degree in Electrical Technology, Traffic Signal Technician major requirements.

Certificate of Achievement, Traffic Signal Technician (Plan Code: 3936)

The Traffic Signal Technician Certificate of Achievement will prepare students for entry-level employment in the traffic signal maintenance and troubleshooting industry. Most of this work is done by technicians employed by cities where the traffic signal systems are located. Upon completion of the Electrical Technology Certificate of Achievement and the Traffic Signal Technician Certificate of Achievement, the student will be able to install, maintain, and repair traffic signal systems in a safe and workmanlike manner.

Program Student Learning Outcomes:

• Develop procedures for the successful installation, maintenance and troubleshooting of Traffic Signal systems.

REQUIRED COU	RSES	UNITS
ELECT 280	Traffic Signal Systems 1	3
ELECT 284	Traffic Signal Controllers & Digital Systems	3
ELECT 285	Traffic Signal Inspection and Safety	2
ELECT 275	Electrical Pipe Bending	1
ELECT 256	High Voltage Safety Awareness	1
TOTAL UNITS		10

ELEMENTARY TEACHER EDUCATION

Associate in Arts in Elementary Teacher Education for Transfer Degree (A.A.-T) (Plan Code: 5019B/C)

The cross-disciplinary courses that are part of this A.A.-T seek to inspire and prepare students, future educators, to teach in urban classrooms, to learn essential professional knowledge including professional teaching standards and ethics, to conduct fieldwork in order to learn how to meet the diverse needs of students and roles of the teacher, and to gain a broad foundation of knowledge across the disciplines that will be necessary for teaching elementary students. Students also develop critical reading, writing, and thinking skills that are pertinent to working in the era of standards-based classroom instruction.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate introductory subject matter competency and knowledge of integrated studies found in liberal studies.
- Summarize practical knowledge of the teaching profession after completing 45 hours of fieldwork in a public elementary classroom.

REQUIRED CORE C	OURSES	UNITS
EDUC 20	Intro to Elementary Classroom Teaching	3
CDECE 45	Child & Adolescent Development DS1	3
BIO 41/41H	Contemporary Biology/Honors	3
AND		
BIO 41L/41LH	Contemporary Biology Lab/Honors	1
CHEM 4	Survey of Chemistry and Physics	4
OR		
PHYS 4	Survey of Chemistry and Physics	4
GEOL 10	Earth Science for Educators	4
MATH 28	Mathematics for Elementary Teaching I	3
COMM 10/10H	Elements of Public Speaking/Honors	3

ENGL 1/1H ENGL 2/2H GEOG 40 HIST 2B HIST 10/10H POLSC 1/1H	Reading and Composition/Honors Introduction to Literature/Composition/Honors World Regional Geography World History to 1500 Hist./Early America (Colonial-Reconstr)/Honors Introduction to Government/Honors	4 4 3 3 3 3
Subtotal Units	introduction to dovernment/honors	5 44
IN ADDITION, com LIST A ENGL 3/3H Subtotal Units	plete ONE (1) course from LIST A: Argumentative and Critical Writing/Honors	4 4
IN ADDITION, com	plete ONE (1) course from LIST B:	
MUSIC 40/40H TART 25 Subtotal Units	Appreciation of Music/Honors Introduction to Theatre	3 3 3
TOTAL UNITS		51

Certificate of Achievement, Educational Aide I (Plan Code 3618)

The Certificate of Achievement in Educational Aide I is designed to prepare students for a variety of entry-level positions in today's education industry such as teacher assistants, instructional aides, and tutors. Upon completion, students will have developed knowledge of the teaching profession, qualities of effective teachers, tutors, and teaching assistants, foundations of the American education system, and critical issues in diverse contemporary classrooms in accordance with the California Standards for the Teaching Profession. Students will develop knowledge and practice with contextualized application of grade TK-12 state content standards such as Next Generation Science Standards, Common Core State Standards in English and mathematics, and technology standards.

- Demonstrate introductory subject matter competency and knowledge of integrated studies found in liberal studies.
- Summarize practical knowledge of the teaching profession after completing 45 hours of fieldwork in a public elementary classroom.

REQUIRED COURS	ES	UNITS
CDECE 45	Child & Adolescent Development DS1	3
COMM 10/10H	Elements of Public Speaking/Honors	3
IN ADDITION, com	plete TWO (2) of the following courses:	
EDUC 10	Introduction to Teaching and Learning	1
EDUC 20	Intro to Elementary Classroom Teaching	3
EDUC 40	Introduction to Educational Technology	1
EDUC 130	Intro to Secondary Classroom Teaching	2
TOTAL UNITS		8-11

Certificate of Achievement, Educational Aide II (Plan Code 3617)

The Certificate of Achievement Educational Aide II is designed to prepare students for a variety of entry-level positions in today's education industry such as teacher assistants, instructional aides, after school program assistants, and tutors. Upon completion, students will have developed knowledge of the teaching profession, qualities of effective teachers, tutors, and teaching assistants, foundations of the American education system, and critical issues in diverse contemporary classrooms in accordance with the California Standards for the Teaching Profession. Students will develop knowledge and practice with contextualized application of grade TK-12 state content standards such as Next Generation Science Standards, Common Core State Standards in English and mathematics, and technology standards.

Program Student Learning Outcomes:

- Demonstrate introductory subject matter competency and knowledge of integrated studies found in liberal studies.
- Summarize practical knowledge of the teaching profession after completing 45 hours of fieldwork in a public elementary classroom.

REQUIRED COURSES UNITS			
CDECE 45	Child & Adolescent Development DS1	3	
MATH 28	Mathematics for Elementary Teaching I	3	
GEOL 10	Earth Science for Educators	4	
EDUC 40	Introduction to Educational Technology	1	
Subtotal Units		11	
IN ADDITION, com	plete ONE (1) course from the following:		
EDUC 10	Introduction to Teaching and Learning	1	
EDUC 20	Intro to Elementary Classroom Teaching	3	
EDUC 130	Intro to Secondary Classroom Teaching	2	
Subtotal Units		1-3	
In ADDITION, comp	blete FOUR (4) units from the following:		
BIO 41/41H AND	Contemporary Biology/Honors	3	
BIO 41L/41LH	Contemporary Biology Lab/Honors	1	
	Summer of Chamistan and Dhusing	4	
CHEM4/ PHYS4	Survey of Chemistry and Physics	4	
	aloto THREE (2) units from the following:	4	
MUSIC 40/40H	plete THREE (3) units from the following: Appreciation of Music/Honors	3	
OR	Appreciation of Music/Honors	5	
TART 25	Introduction to Theatre	3	
Subtotal Units		3	
TOTAL UNITS		19-21	

ENGINEERING

The Engineering program is to foster an environment that both challenges and supports its students. The department is committed to continuous revisions and improvements 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.

Associate in Science (A.S.) Degree, Engineering (Plan Code: 2520)

This Associate Degree may facilitate transfer for a four-year engineering degree. Students who wish to transfer may need to meet additional requirements.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- To serve students for the fulfillment of their own personal goals.
- To serve students to meet career/transfer requirements.

REQUIRED COURS	ES	UNITS
CHEM 1A	General Chemistry	5.5
ENGL 1	Reading and Composition	4
ENGR 3B	Advanced Engr Graphics & 3D CAD Drafting	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	3.5
MATH 80	Third Calculus Course	5
PHYS 3A	Physics for Sci. & EngrMechanics	5.5
PHYS 3B	Physics for Sci. & EngrE & M	4.5
TOTAL UNITS		39

ENGINEERING TECHNOLOGY

The Engineering Technology program provides students with the fundamentals of manufacturing and engineering technology. The courses are designed for the purpose of creating technical talent to meet tomorrow's needs in a highly competitive and automated industrial workforce. Students will have the necessary manufacturing and engineering technical skills, knowledge, and attitude to succeed in this rapidly changing field. The program has three specializations; aerospace, industrial and electrical technologies. Aerospace Engineering Technology, teaches the fundamentals of engineering design, manufacturing for the aerospace industry, and engineering design for the production of new technologies. Industrial Engineering Technology teaches the fundamentals of engineering design, machine tool technology, and advanced metal fabrication technologies. Electrical Engineering Technology teaches the fundamentals of engineering design, electronics and electrical automation.

Associate in Science (A.S.) Degree, Engineering Technology (Plan Code: 2521)

The Associate in Science in Engineering Technology Degree provides students with a fundamental knowledge of the, engineering technology field, engineering design, principles of engineering technology, digital electronics technology and computer integrated manufacturing. This degree program develops students' critical thinking skills through applying the principles of engineering to solve design, manufacturing and automation problems in the field. Students will be able to create and innovate on products and manufacturing processes by, recognizing, analyzing real world processes in order to improve process to eliminate waste in lean manufacturing settings. The Associate in Science in Engineering Technology degree prepares students for transfer to a California State University.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Apply principles of engineering technology to design problems and constraints.
- Create and design robotic tools using automated equipment.

REQUIRED COURS	ES	UNITS
ADMT 50	Adv. Manufacturing, Introduction	3
CAD 51	Mechanical Drafting, Intermediate	2
CAD 60	Geometric Dimensioning and Tolerancing	3
ELECT 230A	Robotics Technology - Design	2
ELECT 230B	Robotics Technology - Integration	2
ELECT 231	Electro-Hydraulics and Pneumatic Systems	2
ETEC 10	Introduction to Engineering Technology	1
ETEC 20	Introduction to Engineering and Design	2.5
ETEC 30	Principles of Engineering Technology	2.5
ETEC 40	Electronics for Engineering Technology	2.5
ETEC 60	Material Science for Engineering Tech	3
MTFAB 280	Introduction to Robotic Welding	2.5
TOTAL UNITS		28

Certificate of Achievement, Engineering Technology (Plan Code: 3521)

The Certificate of Achievement in Engineering Technology provides students with a fundamental knowledge of the, engineering technology field, engineering design, principles of engineering technology, digital electronics technology and computer integrated manufacturing. This certificate program develops students' critical thinking skills through applying the principles of engineering to solve design, manufacturing and automation problems in the field. Students will be able to create and innovate on products and manufacturing processes by, recognizing, analyzing real world processes to improve process to eliminate waste in lean manufacturing settings.

Program Student Learning Outcomes:

- Apply principles of engineering technology to design problems and constraints.
- Create and design robotic tools using automated equipment.

REQUIRED COURSES–Complete the **28 units** of required courses as listed in the Associate Degree in Engineering Technology major requirements.

Certificate of Achievement, Engineering Automation Technology (Plan Code: 3522)

The Engineering Automation Technology certificate provides students the knowledge and training they need to enter a specialized career or enhance their skills for advancement in their job. Coursework completed while earning a Certificate can also be applied to an Associate Degree. The Engineering Automation Certificate provides a student the necessary skills for an entry level/internship opportunity in the automation field with a focus design, production and control of automation tools and equipment.

Program Student Learning Outcomes:

• Create and design robotic tools using automated equipment.

REQUIRED COURS	SES	UNITS
ADMT 50	Adv. Manufacturing, Introduction	3
CAD 51	Mechanical Drafting, Intermediate	2
ELECT 230A	Robotics Technology-Design	2
ELECT 230B	Robotics Technology-Integration	2
ELECT 231	Electro-Hydraulics and Pneumatic Systems	2
ETEC 60	Material Science for Engineering Tech	3
MTFAB 280	Introduction to Robotic Welding	2.5
TOTAL UNITS		16.5

ENGLISH

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 experience, arguing positions, reevaluating beliefs, celebrating creativity, and exploring the limits of the self. The 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.

Associate in Arts in English for Transfer Degree (A.A.-T) (Plan Code: 5003B/C)

The Associate in Arts in English for Transfer Degree is designed to prepare students for upper division study in critical reading, writing, and thinking with possible emphases in English or comparative literature, create writing, rhetoric, and/or teacher preparation. The skills obtained through this degree will also prepare students for upper division study in other humanities-based disciplines such as film and video culture, philosophy, humanistic endeavors in the social sciences and history, and in media studies and journalism. Additionally, the intent of an ADT is to assist students in seamlessly transferring to a CSU. This degree requires students to demonstrate a wide range of reading and writing skills. These skills have a wide applicability for students, not only those interested in the Associate in Arts in English for Transfer Degree, but also for those with interests in any upper-level or graduate study.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- 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.

REQUIRED CORE C Choose OPTION 1 c OPTION 1 ENGL 3/3H ENGL 2 Subtotal Units	OURSES or OPTION 2 from the following: Argumentative and Critical Writing/Honors Introduction to Literature/Composition	UNITS 4 4 8
OR		
OPTION 2 ENGL 4 Subtotal Units	Critical Analysis of Literature	4 4
IN ADDITION, com	plete TWO (2) courses from LIST A:	
LIST A ENGL 41	American Literature I	4
ENGL 41	American Literature II	4
ENGL 44/44H	World Literature 1/Honors	4
ENGL 45/45H	World Literature II/Honors	4
ENLG 46	Survey of British Literature I	4
ENGL 47	Survey of British Literature II	4
Subtotal Units		8

IN ADDITION, if Option 1 was selected for the REQUIRED CORE, complete ONE (1) course from LIST B. Or, if Option 2 was selected for the REQUIRED CORE, complete TWO (2) courses from LIST B. LIST B Any LIST A course not already used 4

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ENGL 26	Creative Writing 1	3
ENLG 33/33H	Mythology/Honors	4
ENGL 35	Interpreting the Short Story	3
ENGL 43A	Introduction to Shakespeare	4
ENGL 43B	Introduction to Shakespeare	4
ENGL 48/48H	Modern and Contemporary Lit/Honors	3
ENGL 50A	Introduction to Poetry Writing	3
ENGL 51A	Introduction to Fiction Writing	3
Subtotal Units if O	ption 1 was selected:	3-4
	ption 2 was selected:	6-8
IN ADDITION, com	plete ONE (1) course from LIST C:	
LIST C		
Any LIST A or LIST E	3 course not already used	3-4
ENLG 24	College Grammar	4
ENGL 32	Masterpieces/Asian Literature (in English)	3
ENGL 34	Literature for Children and Young Adults	4
ENGL 36	The Novel	3
ENGL 37	Science Fiction, Fantasy and Horror	3
ENGL 38	The Bible as Lit: The Old Testament	3
ENGL 39	The Bible as Lit: Apocrypha/New Testament	3
ENGL 49/49H	Film and Literature/Honors	3
ENGL 52A	Intro to Novel Writing	3
Subtotal Units	-	3-4
TOTAL UNITS		21-24

Associate in Arts (A.A.) Degree, English, Language and Literature (Plan Code: 1395)

This degree in the Language and Literature sequence prepares the student for baccalaureate study in English, Comparative Literature, and Liberal Arts.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop and sustain a coherent interpretation of literature that acknowledges historical and cultural contexts.

LANGUAGE AND LITERATURE			
REQUIRED COURS	ES	UNITS	
ENGL 1/1H	Reading and Composition/Honors	4	
ENGL 2	Introduction to Literature/Composition	4	
OR			
ENGL 4	Critical Analysis of Literature	4	
Subtotal Units		8	

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 World):

ENGL 41	American Literature I	4
ENGL 42	American Literature II	4
ENGL 44/44H	World Literature I/Honors	4
ENGL 45/45H	World Literature II/Honors	4
ENGL 46	Survey of British Literature I	4
ENGL 47	Survey of British Literature II	4
Subtotal Units		12

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IN ADDITION, complete SIX to SEVEN (6-7) units from the following:		
ENGL 3/3H	Argumentative and Critical Writing/Honors	4
ENGL 24	College Grammar	4
ENGL 32	Masterpieces/Asian Literature (In English)	3
ENGL 33	Mythology	4
ENGL 34	Literature for Children and Young Adults	4
ENGL 35	Interpreting the Short Story	3
ENGL 36	The Novel	3
ENGL 37	Science Fiction, Fantasy/Horror	3
ENGL 38	The Bible as Lit. The Old Testament	3
ENGL 39	The Bible as Lit., Apocrypha/New Testament	3
ENGL 43A	Introduction to Shakespeare	4
ENGL 43B	Introduction to Shakespeare	4
ENGL 48/48H	Modern & Contemporary Literature/Honors	3
ENGL 49/49H	Film and Literature/Honors	3
Subtotal Units		6-7

IN ADDITION, complete SIX (6) units from any of the courses listed in the Creative Writing Degree:

ENGL 50A	Introduction to Poetry Writing	3
ENGL 50B	Intermediate Poetry Writing	3
ENGL 50C	Advanced Poetry Writing	3
ENGL 50D	Writing and Publishing Poetry	3
ENGL 51A	Introduction to Fiction Writing	3
ENGL 51B	Intermediate Fiction Writing	3
ENGL 51C	Advanced Fiction Writing	3
ENGL 51D	Writing and Publishing Fiction	3
ENGL 52A	Introduction to Novel Writing	3
ENGL 52B	Intermediate Novel Writing	3
ENGL 52C	Advanced Novel Writing	3
ENGL 52D	Writing and Publishing the Novel	3
Subtotal Units		6
TOTAL UNITS		32-33

Associate in Arts (A.A.) Degree, English, Creative Writing (Plan Code: 1396)

The Associate in Arts English, Creative Writing degree prepares students for the development and publication of poetry, short fiction, novels, and non-fiction. Students earning this degree are primed for the upper division study of Creative Writing and related majors such as film, literature, and journalism. The benefits of a Creative Writing degree translate into a wide range of careers: author, technical writer, editor, copywriter, educator, business writer, freelance writer, and careers in marketing and advertising.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Compose poems and short works of fiction using various forms and techniques.

REQUIRED COURSES		UNITS
ENGL 2/2H	Introduction to Literature/Composition	4
OR		
ENGL 3/3H	Argumentative and Critical Writing/Honors	4
OR		

ENGL 4/4H	Critical Analysis of Literature/Honors	4
ENGL 26	Creative Writing 1	3
Subtotal Units		7
	plete NINE (9) units from the following:	
ENGL 50A	Introduction to Poetry Writing	3
ENGL 50B	Intermediate Poetry Writing	3
ENGL 50C	Advanced Poetry Writing	3
ENGL 50D	Writing and Publishing Poetry	3
ENGL 51A	Introduction to Fiction Writing	3
ENGL 51B	Intermediate Fiction Writing	3
ENGL 51C	Advanced Fiction Writing	3
ENGL 51D	Writing and Publishing Fiction	3
ENGL 52A	Introduction to Novel Writing	3
ENGL 52B	Intermediate Novel Writing	3
ENGL 52C	Advanced Novel Writing	3
ENGL 52D	Writing and Publishing the Novel	3
ENGL 53A	Introduction to Creative Nonfiction	3
Subtotal Units		9
	plete THREE to FOUR (3 - 4) units from the following:	
ENGL 24	College Grammar	4
ENGL 32	Masterpieces of Asian Literature (in English)	3
ENGL 32/33H	· . · · · · ·	4
ENGL 33/33H	Mythology/Honors Literature for Children and Young Adults	4
ENGL 34 ENGL 35	-	4
ENGL 35	Interpreting the Short Story The Novel	3
		3
ENGL 37	Science Fiction, Fantasy and Horror The Bible as Lit: The Old Testament	3
ENGL 38		3
ENGL 39	The Bible as Lit: Apocrypha/ New Testament American Literature I	3 4
ENGL 41		-
ENGL 42	American Literature II	4
ENGL 43A	Introduction to Shakespeare	4
ENGL 43B	Introduction to Shakespeare	4
ENGL 44/44H	World Literature I/Honors	4
ENGL 45/45H	World Literature II/Honors	4
ENGL 46	Survey of British Literature I	4
ENGL 47	Survey of British Literature II	4
ENGL 48/48H	Modern and Contemporary Literature/Honors	3
ENGL 49/49H	Film and Literature/Honors	3
Subtotal Units		3-4

TOTAL UNITS

19-20

ENGLISH AS A SECOND LANGUAGE

Long Beach City College offers certificates of competency in the noncredit program for adults seeking to learn English as a Second Language (ESL).

Certificate of Competency, English for Everyday – Level 1 (Plan Code: 4170)

Students completing English for Everyday certificates will possess the English language skills necessary for most daily activities. They will have sufficient speaking, listening, reading, and writing skills for a wide variety of occupations such as retail, hospitality, transportation, or manufacturing.

Program Student Learning Outcomes:

• Create written communication utilizing the grammatical structures introduced at this level.

REQUIRED COURSES		HOURS
ESL 640	English for Everyday 0	108
ESL 641	English for Everyday 1	108
TOTAL HOURS	5	216

Certificate of Competency, English for Everyday – Level 2 (Plan Code: 4171)

Students completing English for Everyday certificates will possess the English language skills necessary for most daily activities. They will have sufficient speaking, listening, reading, and writing skills for a wide variety of occupations such as retail, hospitality, transportation, or manufacturing.

Program Student Learning Outcomes:

• Create written communication utilizing the grammatical structures introduced at this level.

REQUIRED COURSES		HOURS
ESL 642	English for Everyday 2	108
ESL 643	English for Everyday 3	108
TOTAL HOURS		216

Certificate of Competency, English for Everyday – Level 3 (Plan Code: 4172)

Students completing English for Everyday certificates will possess the English language skills necessary for most daily activities. They will have sufficient speaking, listening, reading, and writing skills for a wide variety of occupations such as retail, hospitality, transportation, or manufacturing.

Program Student Learning Outcomes:

• Create written communication utilizing the grammatical structures introduced at this level.

REQUIRED COURSES		HOURS
ESL 644	English for Everyday 4	108
ESL 645	English for Everyday 5	108

TOTAL HOURS

Students must master 70% or higher of the course concepts in order to be promoted into the next course in the sequence.

216

Certificate of Competency, Reading Skills for ESL Students - Level 1 (Plan Code: 4173)

Students completing the Reading Skills for ESL Students certificates will possess an English language reading level adequate for most daily activities. They will be ready for employment positions requiring the completion of forms, following written directions and instructions, and understanding short narratives.

Program Student Learning Outcomes:

• Respond accurately to questions based on events in reading passages.

REQUIRED COURSES		HOURS
ESL 602A	Reading Skills for ESL Students 1	27
ESL 602B	Reading Skills for ESL Students 2	27
TOTAL HOURS		54

Certificate of Competency, Reading Skills for ESL Students - Level 2 (Plan Code: 4174)

Students completing the Reading Skills for ESL Students certificates will possess an English language reading level adequate for most daily activities. They will be ready for employment positions requiring the completion of forms, following written directions and instructions, and understanding short narratives.

Program Student Learning Outcomes:

• Respond accurately to questions based on events in reading passages.

REQUIRED COURSES		HOURS
ESL 602C	Reading Skills for ESL Students 3	27
ESL 602D	Reading Skills for ESL Students 4	27
TOTAL HOURS		54

Certificate of Competency, Reading Skills for ESL Students - Level 3 (Plan Code: 4175)

Students completing the Reading Skills for ESL Students certificates will possess an English language reading level adequate for most daily activities. They will be ready for employment positions requiring the completion of forms, following written directions and instructions, and understanding short narratives.

Program Student Learning Outcomes:

• Respond accurately to questions based on events in reading passages.

REQUIRED COURSES		HOURS
ESL 602E	Reading Skills for ESL Students 5	27
ESL 602F	Reading Skills for ESL Students 6	27
TOTAL HOURS		54

Students must master 70% or higher of the course concepts in order to be promoted into the next course in the sequence.

Workplace Language Skills for ESL

The Department of ESL and Linguistics is committed to enriching the quality of life for students and their families. The Workplace Language Skills Program is a 6-course series designed to prepare low to high intermediate-level ESL students for career success. The program focuses on the oral and written language skills students need to attain employment and advance in their careers. For more information on the English as a Second Language (ESL) Department, call 562-938-3037.

Certificate of Competency, Workplace Language Skills for ESL - Level 1 (Plan Code: 4176)

Students will develop competency in workplace language skills at low-intermediate level and will be able to select and appropriately use standard organizational, cultural and linguistic features in English language presentations and professional autobiographies.

Program Student Learning Outcomes:

• ESL students will be able to competently use listening, speaking, reading and writing skills in the workplace at lowintermediate level.

REQUIRED COURSES		HOURS
ESL 670	Listen/Speak for Work for ESL Level 1	90
ESL 671	Read/Write for Work for ESL Level 1	90
TOTAL HOURS		180

Certificate of Competency, Workplace Language Skills for ESL - Level 2 (Plan Code: 4177)

Students will develop competency in workplace language skills at an intermediate level and will be able to select and appropriately use standard organizational, cultural and linguistic features in job applications, professional resumes and in English language presentations.

Program Student Learning Outcomes:

• ESL students will be able to competently use listening, speaking, reading and writing skills in the workplace at an intermediate level.

REQUIRED COURSES		HOURS
ESL 672	Listen/Speak for Work for ESL Level 2	90
ESL 673	Read/Write for Work for ESL Level 2	90
TOTAL HOURS		180

Certificate of Competency, Workplace Language Skills for ESL - Level 3 (Plan Code: 4178)

Students will develop competency in workplace language skills at high-intermediate level and will be able to select and appropriately use standard organizational, cultural and linguistic features in a mock job interview and in written discourse.

- Select and use conventional organizational, formatting and grammatical elements to compose and edit a cover letter.
- Select and use appropriate cultural and sociolinguistic norms for a U.S. style mock job interview.

REQUIRED COURSES		HOURS
ESL 674	Listen/Speak for Work for ESL Level 3	90
ESL 675	Read/Write for Work for ESL Level 3	90
TOTAL HOURS		180

Certificate of Competency, ESL Literacy (Plan Code: 4182)

The program provides students with the basic English literacy skills needed to enter the first level of the English as Second Language classes at LBC. Students will learn sound/letter relationships for pronunciation, spelling, reading and writing.

Program Student Learning Outcomes:

• Identify, decode and produce basic list of 220 sight words.

REQUIRED COURSES		HOURS
ESL 628	Literacy for English Language Learners 1	27
ESL 629	Literacy for English Language Learners 2	27
TOTAL HOURS		54

Certificate of Competency, ESL Reading for Citizenship (Plan Code: 4183)

This certificate prepares students to learn simple past-tense verbs in order to better understand and answer questions on the U.S. citizenship exam. Students should consider enrolling in this certificate if they are beginning-level English language learners.

Program Student Learning Outcomes:

• Recognize and produce grammatically accurate forms of past tense questions to facilitate preparation for the U.S. Citizenship exam.

REQUIRED COURSES		HOURS
ESL 630	Reading for Citizenship 1	54
ESL 631	Reading for Citizenship 2	54
TOTAL HOURS		108

Certificate of Competency, Intermediate Grammar (Plan Code: 4180)

Students completing the Certificate of Competency in Intermediate ESL Grammar will possess the English language grammar skills necessary for academic success at the intermediate level of credit reading and writing classes. This certificate is intended to assist non-native English- speaking students with their academic success.

- Possess the English language grammar skills necessary for academic success at the intermediate level of credit reading and writing classes.
- Demonstrate linguistically accurate control of English verb tenses, identify the major parts of speech, recognize phrases, and control dependent and independent clauses.

REQUIRED COURSES		HOURS
ESL 610A	Fundamentals of English Grammar 1	54
ESL 610B	Fundamentals of English Grammar 2	54
ESLLC 699	Basic Skills for ESL Students	54*
TOTAL HOURS		116

*Only 8 hours of ESLLC 699 are required for this certificate.

Certificate of Competency, Intermediate Oral Skills (Plan Code: 4179)

Students completing the Certificate of Competency in Intermediate ESL Oral Skills will possess the English language oral skills necessary for success at the intermediate level of ESL.

Program Student Learning Outcomes:

- Possess the English language oral skills necessary for success at the intermediate level of ESL.
- Orally formulate and articulate opinions and judgments, synthesize attitudes and feelings, apply the principles
 of precise articulation of individual sounds, and relate knowledge of the sound system of English to writing and
 spelling conventions.

REQUIRED COURSES		HOURS
ESL 613	Conversation	27
ESL 615	Accent Reduction	108
ESLLC 699	Basic Skills for ESL Students	54*
TOTAL HOURS		143

*Only 8 hours of ESLLC 699 are required for this certificate.

Certificate of Competency, Intermediate Reading and Writing (Plan Code: 4181)

Students completing the Certificate of Competency in Intermediate ESL Reading and Writing will possess the English language grammar skills necessary for academic success at the intermediate level of credit reading and writing classes.

Program Student Learning Outcomes:

- Possess the English language reading and writing skills necessary for success at the intermediate level of non-credit ESL.
- Recognize an increasing number of sight words, identify main ideas, write simple paragraphs, and employ systematic strategies for defining and acquiring academic vocabulary words.

REQUIRED COURSES		HOURS
ESL 612	Reading for Information and Pleasure	27
ESL 614	Composition for ESL Students	27
ESL 618	Vocabulary Development	54
ESLLC 699	Basic Skills for ESL Students	54*
TOTAL HOURS		116

*Only 8 hours of ESLLC 699 are required for this certificate.

FASHION DESIGN

The Fashion Design program at LBCC provide students with discipline specific skills to communicate effectively, think critically, and possess the knowledge of technology essential to employment in design related occupations within the fashion industry or the requisite foundation for transfer to a 4-year college or university.

Associate in Science (A.S.) Degree, Fashion Design (Plan Code: 2324)

The Associate in Science Degree, Fashion Design focuses on fundamental design principles and technical skills preparing students for an entry-level position in the field of fashion design, textile design, and trend forecasting. This foundational course of study introduces design principles and provides students with technical, practical and conceptual development skills. The degree introduces technology throughout the design process and prepares students to apply aesthetic principles and technical skills to execute a design from concept to finished garment. The degree may provide undergraduate requirements necessary for students wishing to transfer to a college or university in fashion design or related majors.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze fashion trends and textiles, and develop technical skills for apparel production.
- Demonstrate the ability to construct garments that express creativity and apply design principles.

REQUIRED COURS	ES	UNITS
FD 3	Intro to Careers in Design/Merchandising	2
FD 5	Product Development	2
FD 9	Clothing Selection	3
FD 10	Textile Fibers and Fabrics	3
FD 20	Introduction to Fashion Industry	3
FD 21	Quick Sketch Croquis Drawing	2
OR		
FD 215	Fashion Sketching I	2
FD 24	Fundamentals of Apparel Construction	3
FD 25	Intermediate Apparel Construction	3
FD 36	Flat Pattern Drafting	3
FD 37	Pattern Draping	3
FD 38A	Fashion Design I	3
FD 38B	Fashion Design II	3
FD 45	Digital Fashion Illustration	3
FD 46	Advanced Digital Fashion Illustration	1.5
Subtotal Units		37.5

IN ADDITION, complete THREE AND ONE HALF to FOUR (3.5-4) units from the following:

FD 27	Production Sewing	1.5
FD 32	History of Fashion	3
FD 41	Fashion Promotion	2.5
FD 200	Trend Forecasting	1
FD 216	Fashion Portfolio Development	2
FD 271WE	Work Experience – Fashion Design	1-4
Subtotal Units		3.5-4
TOTAL UNITS		41-41.5

Certificate of Achievement, Fashion Design (Plan Code: 3324)

The Certificate of Achievement, Fashion Design focuses on fundamental design principles and technical skills preparing students for entry-level position in the field of fashion design, textile design, and trend forecasting. This comprehensive course of study encompasses the breadth of design and provides students with skills to execute a design from concept to a finished garment. It focuses on incorporating technology throughout the design process, production processes, and includes specialty classes resulting in a professional design portfolio.

- Create an environment that promotes critical thinking, creativity, teamwork, soft skills, multicultural and global awareness that provides career opportunities in fashion.
- Analyze fashion trends and textiles, apply design principles and develop technical skills for apparel production.
- Compile a professional portfolio displaying a fashion collection.

REQUIRED COURS	ES	UNITS
FD 5	Product Development	2
FD 10	Textile Fibers and Fabrics	3
FD 24	Fundamentals of Apparel Construction	3
FD 25	Intermediate Apparel Construction	3
FD 27	Production Sewing	1.5
FD 32	History of Fashion	3
FD 36	Flat Pattern Drafting	3
FD 37	Pattern Draping	3
FD 38A	Fashion Design I	3
FD 38B	Fashion Design II	3
FD 38C	Fashion Design III	3
FD 39	Garment Technical Packages	1
FD 41	Fashion Promotion	2.5
FD 45	Digital Fashion Illustration	3
FD 46	Advanced Digital Fashion Illustration	1.5
FD 200	Trend Forecasting	1
FD 216	Fashion Portfolio Development	2
FD 258	Swimwear	1
FD 271WE	Work Experience-Fashion Design	1-4
Subtotal Units		43.5-46.5
IN ADDITION, com	plete TWO (2) units from the following:	
FD 21	Quick Sketch Croquis Drawing	2
FD 215	Fashion Sketching I	2
Subtotal Units	Ŭ	2
	plete THREE (3) units from the following:	
FD 3	Intro to Careers in Design/Merchandising	2
FD 9	Clothing Selection	3
FD 20	Introduction to the Fashion Industry	3
FD 26	Advanced Sewing and Tailoring Techniques	2
FD 20 FD 213	Textile Surface Design	2
Subtotal Units		3
TOTAL UNITS		48.5-51.5

Certificate of Achievement, Fashion Design: Custom Apparel Design (Plan Code: 3323)

The Certificate of Achievement, Fashion Design: Custom Apparel Design prepares students for entry-level positions such as custom apparel designer, costume designer, samplemaker, seamstress, alterations specialist, and tailor. The certificate is designed to prepare students to apply aesthetic principles and technical skills to execute a design from concept to a finished garment. It focuses on custom design throughout the design process and provides the foundation for starting a small apparel business.

Program Student Learning Outcomes:

- Apply design principles and creativity to select appropriate fabrics for the construction of garments that include proper supportive fabrics and linings.
- Analyze garment specifications, fabric qualities, identification of seams and construction details to develop offshore technical packages.

REQUIRED COURS	ES	UNITS
FD 9	Clothing Selection	3
FD 10	Textile Fibers and Fabrics	3
FD 24	Fundamentals of Apparel Construction	3
FD 25	Intermediate Apparel Construction	3
FD 26	Advanced Sewing and Tailoring Techniques	2
FD 27	Production Sewing	1.5
FD 36	Flat Pattern Drafting	3
FD 37	Pattern Draping	3
FD 38A	Fashion Design I	3
FD 38B	Fashion Design II	3
Subtotal Units	-	27.5
IN ADDITION, com FD 45	plete TWO to THREE (2-3) units from the following:	2
	Digital Fashion Illustration	3
FD 21 Subtotal Units	Quick Sketch Croquis Drawing	2 2-3
Subtotal Onits		2-3
IN ADDITION, com	plete a minimum of FIVE (5) units from the following:	
FD 213	Textile Surface Design	1
FD 258	Swimwear	1
FD 38C	Fashion Design III	3
FD 271WE	Work Experience-Fashion Design	1-4
GBUS 25	Digital and Social Media	3
MGMT 80	Small Business Entrepreneurship	3
Subtotal Units		5
TOTAL UNITS	34	4.5-35.5

Certificate of Achievement, Fashion Design: Patternmaker/Technical Design (Plan Code: 3319)

The Certificate of Achievement, Patternmaker/Technical Design prepares students for entry-level positions in the field of technical design, patternmaking, production, sourcing and quality control. It focuses on incorporating technology throughout the development process of offshore technical packages, patternmaking, and garment construction.

Program Student Learning Outcomes:

• Create an environment that promotes critical thinking, creativity, teamwork, soft skills, multicultural and global awareness that provides career opportunities in fashion.

• Calculate measurements to develop patterns and to determine pattern adjustments to achieve proper fit. Analyze garment specifications, fabric qualities, package specifications, identification of seams, construction details, trims, and labels to develop offshore technical packages.

REQUIRED COURS	ES	UNITS
FD 3	Intro to Careers in Design/Merchandising	2
FD 5	Product Development	2
FD 10	Textile Fibers and Fabrics	3
FD 24	Fundamentals of Apparel Construction	3
FD 25	Intermediate Apparel Construction	3
FD 27	Production Sewing	1.5
FD 36	Flat Pattern Drafting	3
FD 37	Pattern Draping	3
FD 38A	Fashion Design I	3
FD 39	Garment Technical Packages	1
FD 40	Advanced and Production Pattern Drafting	1.5
FD 45	Digital Fashion Illustration	3
FD 244	Computer Patternmaking	1
Subtotal Units		30
IN ADDITION, com	plete FOUR (4) units from the following:	
COSA 1	Computer Information Competency	1
FD 9	Clothing Selection	3
FD 20	Introduction to the Fashion Industry	3
FD 21	Quick Sketch Croquis Drawing	2
FD 38B	Fashion Design II	3
FD 46	Advanced Digital Fashion Illustration	1.5
FD 271WE	Work Experience-Fashion Design	1-4
Subtotal Units	-	4
TOTAL UNITS		34

Certificate of Achievement, Fashion Design: Wardrobe Designer/Stylist (Plan Code: 3325)

The Certificate of Achievement, Fashion Design: Wardrobe Designer/Stylist prepares students for entry-level positions in the field of fashion styling for retail, product advertising, celebrity styling and red-carpet events, wardrobe planning and film. This comprehensive course of study encompasses the breadth of styling, trend analysis, and contracts and budgeting.

Program Student Learning Outcomes:

• Analyze fashion trends and apply styling principles and budgeting skills to create a styled fashion photoshoot.

UNITS

REQUIRED COURSES

FD 9	Clothing Selection	3
FD 10	Textile Fibers and Fabrics	3
FD 24	Fundamentals of Apparel Construction	3
FD 32	History of Fashion	3
FD 41	Fashion Promotion	2.5
FD 200	Trend Forecasting	1
FD 210	Fashion Styling	2
GBUS 25	Digital and Social Media	3

IN ADDITION, complete a minimum of FIVE (5) units from the following:		
ART 31	Fundamentals of Art/Composition & Color	3
FD 21	Quick Sketch Croquis Drawing	2
FD 45	Digital Fashion Illustration	3
FD 213	Textile Surface Design	1
FD 271WE	Work Experience – Fashion Design	1-4
MGMT 80	Small Business Entrepreneurship	3
Subtotal Units		5
TOTAL UNITS		25.5

Certificate of Completion, Fashion Design-Advanced Apparel Construction (Plan Code: 4323)

Students will learn beginning through advanced construction techniques and traditional tailoring steps for jacket construction. The courses will cover appropriate fabric selection, proper fabric layout, cutting, and handling techniques for wovens, knits and slippery, difficult fabrics and complex patterns.

Program Student Learning Outcomes:

- Use standard sewing machines, specialized sewing machines, and pressing equipment to execute construction of beginning through advanced level garments that include proper seam finishes, facings and linings, zipper applications and other types of closures.
- Demonstrate appropriate fabric selection, proper fabric layout and cutting techniques.

REQUIRED COURSES		HOURS
FD 624	Fundamentals of Apparel Construction	90
FD 625	Intermediate Apparel Construction	90
FD 626	Advanced Sewing and Tailoring Techniques	72
TOTAL HOURS		252

Certificate of Completion, Fashion Design-Industrial Sewing and Factory Production Methods (Plan Code: 4324)

Students will learn construction techniques and methods of stitching for garment construction on specialized power industrial machines as applied to factory production methods in the garment manufacturing industry.

Program Student Learning Outcomes:

• Demonstrate techniques for construction of woven and knit garments using specialized industrial machines and assembly line mass production methods.

REQUIRED COURSES		HOURS
FD 624	Fundamentals of Apparel Construction	90
FD 625	Intermediate Apparel Construction	90
FD 627	Production Sewing	54
TOTAL HOURS		234

Certificate of Completion, Fashion Design-Swimwear Construction (Plan Code: 4325)

Students will learn construction techniques, pattern manipulation for swimwear design, and fitting of swimwear. Special emphasis is given to stretch fabrics, bra construction, elastic setting and elastic to fabric stretch ratios.

Program Student Learning Outcomes:

- Execute swimwear products to industry standards demonstrating proper construction using standard sewing machines and specialized sewing machines.
- Demonstrate appropriate stretch fabric selection, proper fabric layout and cutting techniques and industry accepted construction of bra cups, elastic application and stretch ratios, joining and finishing of seams, straps and design options.

REQUIRED COURSES		HOURS
FD 624	Fundamentals of Apparel Construction	90
FD 625	Intermediate Apparel Construction	90
FD 658	Swimwear	36
TOTAL HOURS		216

Certificate of Completion, Fashion Design-Textile Surface Design (Plan Code: 4326)

Students will learn garment construction techniques and methods for specialty hand techniques of surface design on textiles. Students will gain experience in creating designs using industry standard techniques such as block printing, beading, embroidery, and tie dye. There are no material fees for the courses associated with this program.

Program Student Learning Outcomes:

• Demonstrate techniques for construction of woven and knit garments and create hand designed textiles and garment embellishments.

REQUIRED COURSES		HOURS
FD 624	Fundamentals of Apparel Construction	90
FD 613	Textile Surface Design	36
FD 630	Fashion Design Laboratory	27
TOTAL HOURS		153

FASHION MERCHANDISING

The Fashion Merchandising program provides 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.

Associate in Science (A.S.) Degree, Fashion Merchandising (Plan Code: 2326)

The Associate in Science Degree, Fashion Merchandising focuses on fundamental apparel development and technical skills preparing students for an entry-level position in the field of fashion buying, merchandising, product development, sourcing, production, retail sales and management, and fashion promotion. This foundational course of study introduces technology throughout the merchandising and planning process and explores sourcing and the global supply chain. The degree may provide undergraduate requirements necessary for students wishing to transfer to a college or university in fashion design or related majors.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze fashion trends and textiles and apply retail merchandising and buying principles.
- Develop teamwork and technical skills for apparel development.

REQUIRED COURS	ES	UNITS
FD 3	Intro to Careers in Design/Merchandising	2
FD 5	Product Development	2
FD 9	Clothing Selection	3
FD 10	Textile Fibers and Fabrics	3
FD 20	Introduction to the Fashion Industry	3
FD 23	Fashion/Merchandise Buying	4
FD 24	Fundamentals of Apparel Construction	3
FD 32	History of Fashion	3
FD 45	Digital Fashion Illustration	3
FD 46	Advanced Digital Fashion Illustration	1.5
FD 200	Trend Forecasting	1
TOTAL UNITS		28.5
RECOMMENDED b	ut not required courses:	
COSA 1	Computer Information Competency	1
FD 271WE	Work Experience-Fashion Design	1-4
IBUS 20	Export-Import Business Practices	3

Certificate of Achievement, Fashion Merchandising (Plan Code: 3326)

The Certificate of Achievement, Fashion Merchandising focuses on fundamental apparel development and technical skills preparing students for an entry-level position in the field of fashion buying, merchandising, product development, sourcing, production, retail sales and management, and fashion promotion. This comprehensive course of study introduces technology throughout the merchandising and planning process and explores sourcing and the global supply chain. Students complete a series of required courses and then choose an option in either Buying or Product Development.

- Create an environment that promotes critical thinking, creativity, teamwork, soft skills, multicultural and global awareness that provides career opportunities in fashion.
- Analyze fashion trends and textiles, apply retail merchandising and buying principles, and obtain technical skills for apparel development.

REQUIRED COURS	ES	UNITS
FD 3	Intro to Careers in Design/Merchandising	2
FD 5	Product Development	2
FD 9	Clothing Selection	3
FD 10	Textile Fibers and Fabrics	3
FD 20	Introduction to Fashion Industry	3
FD 23	Fashion/Merchandise Buying	4
FD 24	Fundamentals of Apparel Construction	3
FD 32	History of Fashion	3
FD 41	Fashion Promotion	2.5
FD 45	Digital Fashion Illustration	3
FD 271WE	Work Experience-Fashion Design	1-4
Subtotal Units		29.5-32.5

Choose emphasis in Option 1 (Buying) or Option 2 (Product Development): OPTION 1: BUYING			
Complete SIX (6) u	nits from the following:		
COSA 1	Computer Information Competency	1	
FD 200	Trend Forecasting	1	
FD 216	Fashion Portfolio Development	2	
MKTG 40	Salesmanship	3	
MKTG 41	Marketing Communications	3	
IBUS 1	Introduction to International Business	3	
IBUS 20	Export-Import Business Practices	3	
Subtotal Units		6	
OR			
OPTION 2: PRODU	ICT DEVELOPMENT		
Complete SIX (6) u	nits from the following:		
COSA 1	Computer Information Competency	1	
FD 27	Production Sewing	1.5	
FD 36	Flat Pattern Drafting	3	
FD 39	Garment Technical Packages	1	
FD 46	Advanced Digital Fashion Illustration	1.5	
FD 216	Fashion Portfolio Development	2	
IBUS 1	Introduction to International Business	3	
IBUS 20	Export-Import Business Practices	3	
Subtotal Units		6	
TOTAL UNITS		35.5-38.5	

FILM

Students completing the program should be fully prepared to move on to a more advanced level in a post-secondary institution or in the workforce.

Associate in Arts (A.A.) Degree, Film (Plan Code: 1265)

Students gain a broader knowledge of film as a medium of mass communication and cultural artifact, as well as basic experience in film production practice and technique. The program provides lower division preparation for students interested in transfer to a baccalaureate degree in this field

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- 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.

REQUIRED COURSES		UNITS
ENTRY LEVEL COU	IRSES	
FILM 1	Introduction to Film Studies	3
FILM 40	Introduction to Screenwriting	3
Subtotal Units		6

INTERMEDIATE LE	VEL COURSES	
FILM 2A	Film History I	3
OR		
FILM 2B	Film History II	3
FILM 20	Fundamentals of Digital Film Production	3
R_TV 216	Non-Linear Video & Film Editing	2.5
Subtotal Units		8.5
IN ADDITION, com	plete TWO (2) courses from the following:	
FILM 10	Film Genres	3
FILM 11	Film Directors and Artists	3
FILM 21	Intermediate Digital Film Production	3
FILM 25	Introduction to Digital Cinematography	3
R_TV 12	Television Lighting	2.5
Subtotal Units		5.5-6
Subtotal Units TOTAL UNITS		5.5-6 20-20.5
TOTAL UNITS	ut not required courses:	
TOTAL UNITS	ut not required courses: Fundamentals of Art/Composition & Color	
TOTAL UNITS	•	20-20.5
TOTAL UNITS RECOMMENDED b ART 31	Fundamentals of Art/Composition & Color	20-20.5 3
TOTAL UNITS RECOMMENDED b ART 31 ART 42	Fundamentals of Art/Composition & Color Introduction to Multimedia Design	20-20.5 3 3
TOTAL UNITS RECOMMENDED b ART 31 ART 42 ENGL 26	Fundamentals of Art/Composition & Color Introduction to Multimedia Design Creative Writing 1	20-20.5 3 3 3
TOTAL UNITS RECOMMENDED b ART 31 ART 42 ENGL 26 PHOT 32	Fundamentals of Art/Composition & Color Introduction to Multimedia Design Creative Writing 1 Introduction to Digital Photography	20-20.5 3 3 4
TOTAL UNITS RECOMMENDED b ART 31 ART 42 ENGL 26 PHOT 32 R_TV 14	Fundamentals of Art/Composition & Color Introduction to Multimedia Design Creative Writing 1 Introduction to Digital Photography Electronic Field Production	20-20.5 3 3 4 3

Certificate of Achievement, Digital Filmmaking (Plan Code: 3257)

The Digital Filmmaking program is designed to prepare students for entry-level and self-employment in the film and television fields. Students are given basic skills in all aspects of film and video production & post-production: camera operation, lighting and cinematography, sound recording, video editing, sound design and creation, color correction and visual effects. Emphasis is placed on hands on, experiential learning. Students are given access to professional level equipment to produce both individual and collaborative projects and gain the necessary skills to enter the entertainment workforce.

- Demonstrate an understanding of concept, design and creation of film projects.
- Demonstrate an ability to work collaboratively to produce film projects.
- Engage creativity and original thinking in the production of a film project.
- Develop a career path in the film and television industry.

REQUIRED COURS	ES	UNITS
FILM 1	Introduction to Film Studies	3
FILM 20	Fundamentals of Digital Film Production	3
FILM 25	Introduction to Digital Cinematography	3
R_TV 216	Non-Linear Video & Film Editing	2.5
R_TV 270WE	Work Experience-Radio, TV	3
R_TV 60	Pro Tools (Digital Audio Recording/Edit)	3
Subtotal Units		17.5

IN ADDITION, complete SIX (6) units from the following:			
ART 48	Computer Art & Design for TV and Video	3	
FILM 21	Intermediate Digital Film Production	3	
FILM 40	Introduction to Screenwriting	3	
Subtotal Units		6	
TOTAL UNITS		23.5	
IOTAL UNITS		23.3	

FILM, TELEVISION AND ELECTRONIC MEDIA

Associate in Science in Film, Television, and Electronic Media for Transfer Degree (A.S.-T) (Plan Code: 5507B/C)

The Associate in Science in Film, Television and Electronic Media for Transfer is designed to provide students the opportunity to complete the lower-division major and general education preparation for transferring to a CSU as a Film, Television and Electronic Media major. The study of Film, Television and Electronic Media serves two purposes: it gives students the basic skills of media analysis and the basic technical skills and knowledge of media production. Students learn to analyze media and articulate the historical, social, and aesthetic functions of that media and also learn the basic production practices that goes into making film/tv/web content. Coursework familiarizes students with classic film/tv/media works and standard production techniques to build a foundation for future production and/or analytical work. The goal of this curriculum is a comprehensive preparation for further academic study and ultimately a baccalaureate degree for those considering professional careers and/or admission to a graduate program.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze film, television and/or media works for formal and thematic meaning.
- Demonstrate basic operational skills of film, television, and/or media production and post-production technologies.

REQUIRED CORE C	OURSES	UNITS
Complete TWO (2)	courses from the following:	
R_TV 1	Introduction to Broadcasting	3
FILM 1	Introduction to Film Studies	3
R_TV 4	Writing & Production Planning	3
OR		
FILM 40	Introduction to Screenwriting	3
Subtotal Units		6
IN ADDITION, com	plete ONE (1) course from each Area in LIST A:	
LIST A		
AREA 1: Audio		
R_TV 60	Pro Tools (Digital Audio Recording/Edit)	3
R_TV 21	Radio Production	3
AREA 2: Video or F	ilm Production	
FILM 20	Fundamentals of Digital Film Production	3
OR		
R_TV 14	Electronic Field Production	3
R_TV 13	Television Production	3
FILM 21	Intermediate Digital Film Production	3
Subtotal Units		6

IN ADDITION, comp	olete ONE (1) course from LIST B:	
LIST B		
Any LIST A course r	not already used	3
ART 10	Art Appreciation	3
ART 2	Art and Civilization	3
FILM 2A	Film History I	3
FILM 2B	Film History II	3
Subtotal Units		3
IN ADDITION, comp	plete ONE (1) course from LIST C:	
LIST C		
Any LIST A or LIST E	3 course not already used	3
ART 48	Computer Art & Design for TV and Video	3
R_TV 8	Introduction to Media Production	3
R_TV 37	Radio/Television Management and Sales	3
FILM 10	Film Genres	3
FILM 11	Film Directors and Artists	3
Subtotal Units		3
TOTAL UNITS		18

FINANCIAL LITERACY

Certificate of Competency, Financial Literacy (Plan Code: 4210)

The Financial Literacy Program provides students the essential skills for personal money management. Students gain confidence as they learn about budgeting, saving, debt, credit, as well as education, housing, transportation and investing options. Students will create an action plan to improve their quality of life and reach their educational, professional and economic goals.

Program Student Learning Outcomes:

• Create a personal financial plan based on one's vision and goals

REQUIRED COURSES		HOURS
MONEY 690	Money Basics and Goal Setting	9
MONEY 695	Your Personal Financial Plan	9
TOTAL HOURS		18

FIRE SCIENCE

The Fire Science program prepares students for careers in the fire service and enhances skills for those who are currently employed in that area.

Associate in Science (A.S.) Degree, Fire Science (Plan Code: 2805)

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 Associate Degree will prepare students for entry to a fire academy and for career advancement for those already employed in a fire-related industry.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Explore the history, development, structure, and functions of the American fire service. •
- Analyze, interpret, and evaluate prevention/protection/fire-fighting theories, policies, practices, and procedures to ٠ develop strategies to prevent, control, and fight fires.

REQUIRED COURS	ES	UNITS
FIRE 1	Fire Protection Organization	3
FIRE 2	Fire Prevention Technology	3
FIRE 3	Fire Protection Equipment and Systems	3
FIRE 4	Building Construction	3
FIRE 5	Fire Behavior and Combustion	3
Subtotal Units		15
IN ADDITION, com	plete NINE (9) units from the following:	
FIRE 53	Fire Hydraulics	3
FIRE 54	Hazardous Materials 1	3
FIRE 57	Introduction to Fire Tactics & Strategy	3
FIRE 58	Intro to Fire Company Administration	3
FIRE 61	Rescue Practices	3
FIRE 62	Fire Apparatus & Equipment	3
FIRE 64	Hazardous Materials 2	3
FIRE 65	Fundamental of Fire Safety	3
FIRE 240	Firefighter I Physical Agility	.5
EMT 251	Emergency Medical Technician	4
EMT 251L	Emergency Medical Technician Laboratory	2
PUBAD 1	Introduction to Public Administration	3
Subtotal Units		9
TOTAL UNITS		24

TOTAL UNITS

Certificate of Achievement, Fire Science (Plan Code: 3805)

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.

Program Student Learning Outcomes:

• Demonstrate an understanding and ability to recognize and apply preventive and proactive measures in fire protection.

REQUIRED COURSES—Complete the 24 units of required courses as listed in the Associate Degree in Fire Science major requirements.

FLORAL DESIGN

The Floral Design program is the development of student competency for employment as floral designers.

Associate in Arts (A.A.) Degree, Floral Design (Plan Code: 1328)

The Associate in Arts Floral Design will prepare students to become a salesperson, manager or owner of a floral shop. The certificate will help students prepare for CCF (California Certified Florist) and AIFD (American Institute of Floral Designers) certification. The degree will also provide students with a broad-based education that will prepare them for global citizenry.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop foundational knowledge and skills for the design and production of industry acceptable floral displays.

REQUIRED COURS		UNITS
FLO 286A	Introduction to Floral Design: Fall Flowers	2
FLO 286B	Introduction to Floral Design: Spring Flowers	2
MGMT 80	Small Business Entrepreneurship	3
OR		
MKTG 40	Salesmanship	3
IN ADDITION, com	plete FIVE (5) units from the following:	
ART 30 OR	Fundamentals of Art/Volume, Plane & Form	3
ART 31 AND	Fundamentals of Art/Composition & Color	3
HORT 15A	Basic Horticulture	2
OR		
HORT 15B	Basic Horticulture	2
Subtotal Units		12
IN ADDITION, com	plete the following	
INTERMEDIATE LE	VEL COURSES	
FLO 287A	Intermediate Floral Design – Wedding	2
FLO 287B	Intermediate Floral Design – Sympathy	2
FLO 287C	Intermediate Floral Design - Banquet Holiday	2
Subtotal Units	whether the state of the second se	6
	plete the following	
		2
FLO 288 FLO 289	Advanced Floral Design Applied Floral Shop Operation	2
FLO 289	Floral Creativity and Competition	.5
Subtotal Units	noral creativity and competition	.5 5.5
		5.5
TOTAL UNITS		23.5

Certificate of Achievement, Floral Design (Plan Code: 3328)

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 CCF (California Certified Florist and AIFD (American Institute of Floral Designers) certification.

Program Student Learning Outcomes:

• Develop foundational knowledge and skills for the design and production of industry acceptable floral displays.

REQUIRED COURSES—Complete the **23.5 units** of required courses as listed in the Associate Degree in Floral Design major requirements.

FOREIGN LANGUAGES

The Foreign Languages program offers formal transfer requirement courses in Chinese, French, German, Italian, Japanese, and Spanish. The program is designed to teach students to communicate effectively in a foreign language and to appreciate culture; to promote international understanding and exchange; and to provide a pool of students to fill positions in the community.

Associate in Arts in Spanish for Transfer Degree (A.A.-T) (Plan Code: 5010B/C)

The Associate in Arts in Spanish for Transfer Degree aligns with the college's mission to provide a transfer path for student success. It prepares both non-native students and heritage learners to communicate effectively in Spanish in a wide range of situations in both personal and professional settings. Students will broaden their cultural awareness and develop sensitivity to diverse Hispanic cultures within the global community. The skills obtained through this degree promote equitable learning and achievement, and will prepare a diverse population of students for career advancement and transfer to a four-year college or university.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate effective skills in the four major areas of Spanish language study (reading, writing, speaking, listening comprehension) in order to perform elementary everyday communicative functions.
- Demonstrate the ability to analyze and to think critically in written and oral communication in Spanish in order to effectively enter into the global economy.
- Demonstrate understanding of the interrelationship between culture-specific behaviors.

REQUIRED CORE C	OURSES	UNITS
SPAN 1	Elementary Spanish	5
SPAN 2	Elementary Spanish	5
SPAN 3	Intermediate Spanish	5
OR		
SPAN 9	Spanish for Spanish Speakers	5
SPAN 4	Intermediate Spanish	5
OR		
SPAN 10/10H	Spanish for Spanish Speakers/Honors	5
IN ADDITION, com LIST A	plete ONE (1) course from LIST A:	
SPAN 25A	Advanced Spanish: Culture in Literature	3
SPAN 25B	Advanced Spanish: History	3
SPAN 25C	Advanced Spanish: Politics, Current Events	3
SPAN 25D	Advanced Spanish: Literature	3
TOTAL UNITS		23

Associate in Arts (A.A.) Degree, Foreign Languages (Plan Code: 1420)

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 baccalaureate work. The degree would benefit those wishing to enter a variety of industries or business settings that compete in an international market, and may prepare students for transfer to a four-year university in a foreign language program. The degree also offers an added dimension of cultural knowledge and understanding in regions where the language is spoken.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate effective skills in the four major areas of the language being studied (reading, writing, speaking, listening comprehension) in order to perform elementary everyday communicative functions.
- Demonstrate the ability to analyze and to think critically in written and oral communication in the language being studied in order to effectively enter into the global economy.
- Demonstrate understanding of the interrelationship between culture-specific behaviors.

PROFICIENCY EMPHASIS

Options in French, German, and Spanish at the Intermediate or Advanced Level. For students who are studying French, Japanese or Spanish and who want to achieve a level of competency for baccalaureate work, and/or to combine their foreign languages with another skill.

REQUIRED COURS	ES	UNITS
Complete FIFTEEN	(15) units from ONE LANGUAGE (French, Japanes	se or Spanish):
Elementary Langua	age 1 (FREN, JAPAN, SPAN)	5
Elementary Langua	age 2 (FREN, JAPAN, SPAN)	5
Intermediate Lang	uage 3 (FREN, JAPAN, SPAN)	5
OR		
SPAN 9/9H	Spanish for Spanish Speakers/Honors	5
Intermediate Language 4 (FREN, JAPAN, or SPAN)		5
OR		
SPAN 10/10H	Spanish for Spanish Speakers/Honors	5
Subtotal Units		15

IN ADDITION, complete FIVE to SIX (5-6) units from the following or an additional required course from above.

SPAN 8	Spoken Spanish	3
SPAN 25A	Adv. Spanish: Culture in Literature	3
SPAN 25B	Adv. Spanish: History	3
SPAN 25C	Adv. Spanish: Politics, Current Events	3
SPAN 25D	Adv. Spanish: Literature	3
FREN 25A	Advanced French: Culture in Literature	3
LING 1/1H	Linguistics 1/Honors	3
LING 3	Introduction to World Languages	3
Subtotal Units		5-6
TOTAL UNITS		20-21

Associate in Arts (A.A.) Degree, Japanese (Plan Code: 1964)

The Associate in Arts in Japanese aligns with the college's mission to provide a transfer path for student success. It prepares students to communicate effectively in Japanese in a wide range of situations in both personal and professional settings. Students will broaden their cultural awareness and develop sensitivity to the Japanese culture within the global community. The skills obtained through this degree promote equitable learning and achievement, and will prepare a diverse population

of students for career development and transfer to a four-year college or university. Japanese companies are some of the largest companies in the world, requiring knowledge of the Japanese language and culture. Students who enter the program with advanced skills may complete the *Prerequisite Challenge* form to enter a higher level of language study in the program.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate effective skills in the four major areas of Japanese language study (reading, writing, speaking, listening comprehension) in order to perform elementary everyday communicative functions.
- Organize thinking and writing by using facts, ideas and events to ask questions, assemble evidence, and evaluate conclusions with clarity and coherence.
- Demonstrate understanding of the interrelationship between culture-specific behaviors.

REQUIRED COURSES		UNITS
Complete FIFTEEN	(15) units from the following:	
JAPAN 1	Elementary Japanese	5
JAPAN 2	Elementary Japanese	5
JAPAN 3	Intermediate Japanese	5
JAPAN 4	Intermediate Japanese	5
Subtotal Units		15
	plate THREE (2) units from the following:	
,	plete THREE (3) units from the following:	2
ART 5	History of Asian Art	3
ANTHR 2/2H	Cultural Anthropology/Honors	3
ANTHR 4	Linguistic Anthropology	3
HIST 9B	History of Japan and Korea	3
LING 1/1H	Linguistics 1/Honors	3
LING 3	Introduction to World Languages	3
Subtotal Units		3
TOTAL UNITS		18

Certificate of Achievement, Japanese (Plan Code: 3426)

The Certificate of Achievement in Japanese certifies that the student can communicate effectively, both verbally and in writing, in a wide range of situations, in both professional and personal settings. Students who enter the program with advanced skills may complete the *Prerequisite Challenge* form to enter a higher level of language study in the program.

Program Student Learning Outcomes:

- Demonstrate effective skills in the four major areas of Japanese language study (reading, writing, speaking, listening comprehension) in order to perform elementary everyday communicative functions.
- Organize thinking and writing by using facts, ideas and events to ask questions, assemble evidence, and evaluate conclusions with clarity and coherence.
- Demonstrate understanding of the interrelationship between culture-specific behaviors.

REQUIRED COURSES—Complete the **18 units** of required courses listed in the Associate Degree in Japanese major requirements.

Certificate of Achievement, French (Plan Code: 3427)

The Certificate of Achievement in French certifies that the student can communicate effectively, both verbally and in writing, in a wide range of situations, in both professional and personal settings. Students who enter the program with advanced skills may complete the *Prerequisite Challenge* form to enter a higher level of language study in the program.

Program Student Learning Outcomes:

- Demonstrate effective skills in the four major areas of French language study (reading, writing, speaking, listening comprehension) in order to perform elementary everyday communicative functions.
- Organize thinking and writing by using facts, ideas and events to ask questions, assemble evidence, and evaluate conclusions with clarity and coherence.
- Demonstrate understanding of the interrelationship between culture-specific behaviors.

REQUIRED COURSES		UNITS
Complete THIRTEE	N to FIFTEEN (13-15) units from the following:	
FREN 1	Elementary French	5
FREN 2	Elementary French	5
FREN 3	Intermediate French	5
FREN 4	Intermediate French	5
FREN 25A	Advanced French: Culture in Literature	3
Subtotal Units		13-15

IN ADDITION, complete THREE (3) units from the following:

HIST 1A/1AH HIST 1B/1BH HUMAN 1/1H LING 1/1H LING 3 PHIL 9 Subtotal Units	History: Western (European) Civilizations/Honors History: Western (European) Civilizations/Honors Comparative World Cultures/Honors Linguistics 1/Honors Introduction to World Languages Introduction to Existentialism	3 3 3 3 3 3 3 3
TOTAL UNITS		16-18

Certificate of Achievement, Spanish (Plan Code: 3428)

The Certificate of Achievement in Spanish certifies that the student can communicate effectively, both verbally and in writing, in a wide range of situations, in both professional and personal settings. Students who enter the program with advanced skills may complete the *Prerequisite Challenge* form to enter a higher level of language study in the program.

Program Student Learning Outcomes:

- Demonstrate effective skills in the four major areas of Spanish language study (reading, writing, speaking, listening comprehension) in order to perform elementary everyday communicative functions.
- Organize thinking and writing by using facts, ideas and events to ask questions, assemble evidence, and evaluate conclusions with clarity and coherence.
- Demonstrate understanding of the interrelationship between culture-specific behaviors.

REQUIRED COURSES		UNITS
Complete FIFTEE	N to SIXTEEN (15-16) units from the following:	
SPAN 1	Elementary Spanish	5
SPAN 2	Elementary Spanish	5

LONG BEACH CITY COLLEGE

SPAN 3	Intermediate Spanish	5
SPAN 4	Intermediate Spanish	5
SPAN 8	Spoken Spanish	3
SPAN 9/9H	Spanish for Spanish Speakers/Honors	5
SPAN 10/10H	Spanish for Spanish Speakers/Honors	5
SPAN 25A	Adv. Spanish: Culture in Literature	3
SPAN 25B	Adv. Spanish: History	3
SPAN 25C	Adv. Spanish: Politics, Current Events	3
SPAN 25D	Adv. Spanish: Literature	3
Subtotal Units		15-16
IN ADDITION, com	plete THREE (3) units from the following:	
ART 11	Latin American Art and Architecture	3
HIST 8A/8AH	History of the Americas/Honors	3
HIST 18	History of Mexico	3
HUMAN 1/1H	Comparative World Cultures/Honors	3
LING 1/1H	Linguistics 1/Honors	3
LING 3	Introduction to World Languages	3
Subtotal Units		3
TOTAL UNITS		18-19

GED PREPARATION

Certificate of Competency, GED Preparation (Plan Code: 4212)

The General Educational Development (GED) Preparation program prepares students with the essential skills for the GED test. Students gain knowledge and skills in language arts, social studies, math, and science. Students who reach competencies may advance to develop skills for the workplace and to prepare for future educational opportunities.

Program Student Learning Outcomes:

• Demonstrate progress on assigned individual plan of study.

REQUIRED COURSES		HOURS
Complete THIR	FY-SIX (36) hours from any two of the following:	
GED 600	GED Preparation: Language Arts	18
GED 605	GED Preparation: Social Studies	18
GED 610	GED Preparation: Mathematics	18
GED 615	GED Preparation: Science	18
TOTAL HOURS		36

Certificate of Competency, GED Preparation Spanish (Plan Code: 4213)

The General Educational Development (GED) Preparation program in Spanish prepares students with the essential skills for the GED test. Students gain knowledge and skills in language arts, social studies, math, and science. Students who reach competencies may advance to develop skills for the workplace and to prepare for future educational opportunities.

Program Student Learning Outcomes:

Demonstrate progress on assigned individual plan of study. ٠

REQUIRED COURSES		HOURS
Complete THIR	TY-SIX (36) hours from any two of the following:	
GED 620	GED Preparation – Spanish: Language Arts	18
GED 625	GED Preparation – Spanish: Social Studies	18
GED 630	GED Preparation – Spanish: Mathematics	18
GED 635	GED Preparation – Spanish: Science	18
TOTAL HOURS		36

GENDER AND SEXUALITY STUDIES

Certificate of Achievement, Gender and Sexuality Studies (Plan Code: 3429)

The Gender and Sexuality Certificate of Achievement is designed to teach the fundamentals of theory and knowledge relevant to gender and sexuality. The program will prepare students to be more aware of systemic power structures and how to promote inclusivity and equity within those structures. Some courses may be double counted to fulfill general education area requirements that will aid in transfer. Students can earn this certificate by completing the 18 units of required course work in the various fields listed on the certificate.

Program Student Learning Outcomes:

Identify and synthesize the theoretical and practical knowledge of gender and sexuality studies in various social • sciences areas, history, and health education.

REQUIRED COURSES		UNITS
HIST 25	History of American Woman	3
PSYCH 10	Human Sexuality	3
OR		
HLED 10	Human Sexuality	3
SOCIO 17	Introduction to Sociology of Gender	3
Subtotal Units		9
IN ADDITION, complete NINE (9) units from the following:		

PHIL 1	Philosophy of LGBTQIA+ Studies	3
PHIL 10	Introduction to Feminist Philosophy	3
HLED 4	Women's Health Issues	3
HLED 5	Men's Health Issues	3
Subtotal Units		9
TOTAL UNITS		18

TOTAL UNITS

GENERAL EDUCATION

Certificate of Achievement, CSU GE Breadth (Plan Code: 3000)

The Certificate of Achievement in CSUGE Breadth will provide students with the required general education coursework needed for transfer to a four-year university in California. The general education pattern for CSU incorporates a wide variety of disciplines in the areas of written and oral communication, quantitative reasoning, critical thinking, science, social science, humanities, arts, and personal growth and development. Upon completion, students will have fulfilled the minimum lower division general education requirements for a Bachelors' degree, thereby allowing them to focus on their upper-division curriculum in their major after transfer.

Program Student Learning Outcomes:

- Synthesize information provided through a variety of disciplines and determine the relationship between them while preparing for transfer to a California State University institution.
- Develop skills, comprehension, and information in oral and written communication provided through a variety of disciplines.

Students may earn a Certificate of Achievement in General Education after completing the following transfer General Education requirements below:

California State University General Education-Breadth (CSUGE-B)

Students must complete a **minimum of 39 units** used to satisfy the California State University General Education Breadth (CSUGE-B) requirements (Plan B). Students must complete all the requirements for full certification of the breadth requirements, which includes a grade of "C" or better in Oral Communication, Written Communication, Critical Thinking, and Mathematical Concepts. Consult with a counselor or see the appropriate requirements listed in Plan B.

Certificate of Achievement, IGETC (Plan Code: 3001)

The Certificate of Achievement in IGETC will provide students with the required general education coursework needed for transfer to a four-year university in California. The IGETC pattern CSU incorporates a wide variety of disciplines in the areas of written and oral communication, quantitative reasoning, critical thinking, science, social science, humanities, arts. Upon completion, students will have fulfilled the minimum lower division general education requirements for a Bachelors' degree, thereby allowing them to focus on their upper-division curriculum in their major after transfer.

Program Student Learning Outcomes:

- Synthesize information provided through a variety of disciplines and determine the relationship between them while preparing for transfer to a California State University or University of California institution.
- Develop skills, comprehension, and information in oral and written communication provided through a variety of disciplines.

Students may earn a Certificate of Achievement in General Education after completing the following transfer General Education requirements below:

Intersegmental General Education Transfer Curriculum (IGETC)

Students must complete a **minimum of 34 units** used to satisfy the Intersegmental General Education Transfer Curriculum (IGETC) requirements (Plan C). Students must receive full certification of the IGETC pattern, which requirements a minimum grade of "C" or better in each IGETC course. Consult with a counselor or see the appropriate requirements listed in Plan C.

GEOGRAPHY

Geography is a unique spatial science that synthesizes interactions between human society and physical environments to develop a broad understanding of the distribution and organization of both physical and human landscapes and environments. Geography students develop strong analytical and communication skills, including methods of geographic observation, data collection, analysis, mapping, modeling and reporting of findings.

Associate in Arts in Geography for Transfer Degree (A.A.-T) (Plan Code: 5009B/C)

The Department of Physical Science offers an Associate in Arts in Geography for Transfer Degree. The Transfer degree assures enrollment and transfer opportunities at California State Universities. The geography major provides students with a comprehensive knowledge of theoretical concepts of geography and associated knowledge and skills. Geography majors develop understanding of the spatial organization of physical and human landscapes, interactions between human society and the physical environment, as well as the meanings that people bring to their place in the world. Concentrations include: physical geography, and weather and climate; human geography, including world regional geography, the global economy, and geography of California; technical skills: use and application of Geographic Information Systems, and field techniques in geography. The Geography major is preparation for general education, and meaningful employment in a wide variety of interesting occupations. It prepares students for participation in an increasingly diverse and globalized world.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Apply scientific research methods and technologies to observe, collect and analyze geographic data and information regarding human-environment interactions.
- Communicate an understanding of the importance of geographical processes and spatial interactions.

REQUIRED CORE COURSES		UNITS
PGEOG 1	Physical Geography	3
GEOG 2 OR	Elements of Cultural Geography	3
GEOG 40	World Regional Geography	3
Subtotal Units		6
IN ADDITION, com LIST A	plete TWO-THREE (2-3) courses from LIST A for	a subtotal of 6-9 units:
PGEOG 1L	Physical Geography Lab	1.5
GEOG 48	Geography of California	3
GEOG 10	Intro. to Geographic Information Systems	3
PGEOG 2	Weather and Climate	3
Subtotal Units		6-9
IN ADDITION, com LIST B	plete TWO (2) courses from LIST B:	
Any LIST A course r	not already used	6-9
GEOG 5	The Global Economy	3
OR ECON 5	The Global Economy	3
STAT 1/1H	Elementary Statistics/Honors	4
ANTHR 2/2H	Cultural Anthropology/Honors	3
GEOL 2	General Geology, Physical	3
Subtotal Units		6-7
TOTAL UNITS		18-22

Certificate of Accomplishment, Foundations of Geospatial Data and Programming (Plan Code: 4309)

The Department of Social Science offers a Certificate of Accomplishment in Foundations of Geospatial Data and Programming. The certificate is designed for students who plan to transfer to the California State University system and pursue additional coursework in geographic information systems and other geospatial technologies. The certificate provides students with a solid background in geographic information systems, Excel databases, and computer programming. These are essential skills for upper division coursework in geographic information systems and are valued by employers looking for geospatial analysts. These skills apply to myriad majors and occupations, including geography/GIS, anthropology, sociology, economics, geology, environmental science, public health, urban planning, field biology, and more.

Program Student Learning Outcomes:

• Analyze data using geospatial tools, including GIS, GPS, and remote sensing.

REQUIRED COURSES		UNITS
GEOG 10	Intro to Geographic Information Systems	3
COSA 15	Microsoft Excel for Windows	3
CS 31	Introduction to Computer Science-Python	4
TOTAL UNITS		10

GEOLOGY

The Department of Physical Science offers an Associate in Science in Geology for Transfer Degree. The Transfer degree assures enrollment and transfer opportunities at California State Universities. The geology major provides students with authentic laboratory and field experiences that serve as the foundation for geologic understanding and reasoning. The Geology program offers several courses that prepare geology students for upper-division geology courses offered at 4-year institutions.

Associate in Science in Geology for Transfer Degree (A.S.-T) (Plan Code: 5503B/C)

The Associate in Science in Geology for Transfer degree is designed to prepare students with a general education in the principles, concepts and methodologies of geology. This degree is designed to increase students' understanding of the earth, and to continue their education toward upper division courses in the Earth Sciences. Students will have guaranteed admission to the CSU system, but not to a particular campus or major. The Associate in Science in Geology for Transfer degree will prepare students for meaningful career employment and will facilitate transfer in a related major if desired.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Differentiate between unsupported opinion and verifiable scientific fact supported by observations, experiments, and scientific theory.
- Demonstrate a basic understanding of the field of geology by applying basic geologic concepts verbally and in writing.

REQUIRED CORE COURSES		UNITS
GEOL 1/1H	General Physical Geology/Honors	4.5
OR		
GEOL 2	General Geology, Physical	3
AND		
GEOL 2L	General Geology, Physical Lab	1.5
GEOL 3/3H	Historical Geology/Honors	4.5

5
5
5.5
5.5

GLOBAL STUDIES

Associate in Arts in Global Studies for Transfer Degree (A.A.-T) (Plan Code: 5021B/C)

Global Studies is an interdisciplinary course of study focused on globalization and its associated controversies. The program introduces students to the political, historical, economic, cultural, and ecological dimensions of globalization. Students will develop the skills and knowledge for critically evaluating global issues, developing policy solutions, and advocating for change.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Apply major theoretical concepts from globalization literature to the analysis of global issues.

REQUIRED CORE COURSES Complete SIX (6) units from the following:		UNITS
GLST 1 GLST 2 Subtotal Units	Interform the following: Introduction to Global Studies Global Issues	3 3 6
LIST A	plete FIVE (5) courses from at least four areas in LIST	A:
AREA 1: Culture ar	•	2
ANTHR 2/2H	Cultural Anthropology/Honors	3
HIST 2C/2CH	World History Since 1500/Honors	3
Area 2: Geography	/	
PGEOG 1	Physical Geography	3
GEOG 2	Elements of Cultural Geography	3
GEOG 40	World Regional Geography	3
Area 3: Economics		
ECON 1/1H	Macro Economic Analysis/Honors	3
ECON 2/2H	Micro Economic Analysis/Honors	3
Area 4: Politics		
POLSC 2/2H	Comparative Government/Honors	3
POLSC 4/4H	World Politics/Honors	3
Area 5: Humanitie		Ū
ENGL 44/44H	World Literature I/Honors	4
ENGL 44/44H ENGL 45/45H	World Literature II/Honors	4
		4
Subtotal Units		15-17
TOTAL UNITS		21-23

HISTORY

The History Department offers the Associate in Arts in History for Transfer Degree which provides students with a fundamental knowledge of historical events, historical literacy, and historical thinking. Upon completion of the degree, students will also gain the knowledge, skills, civic engagement abilities and cultural sensitivity that will allow them to be successful as citizens in a multicultural society. Furthermore, this degree supplies students with a basic understanding of what it means to be a historian. Finally, students completing the degree will gain the necessary skills needed to succeed after transfer to a California State University Campus (CSU) or any other 4-year college.

Associate in Arts in History for Transfer Degree (A.A.-T) (Plan Code: 5006B/C)

The Associate in Arts in History for Transfer Degree prepares students for transfer into the CSU system to complete a baccalaureate degree in History or a similar major. Upon completion of the Associate in Arts in History for Transfer Degree, a student will be prepared to complete a baccalaureate degree in History or a similar major because the proposed courses for this associate degree meet all the requirements specified in section 66746 of the California Educational Code.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Students will develop the ability to critically analyze topics in History using a variety of primary and secondary sources and understand the causes and effects of historical events, thereby identifying and articulating problems, theses, arguments, evidence and conclusions about the significance of historical change and continuity over time.
- Students will develop an understanding of their roles in society, take responsibility for their own actions, and make ethical decisions in complex situations.
- Students will be able to articulate similarities and differences among cultures, times, and environments, demonstrating an understanding of cultural pluralism, as well as the value the importance of diverse perspectives in history.

REQUIRED CORE C HIST 10/10H HIST 11/11H Subtotal Units	COURSES Hist./Early America (Colonial-Reconstr)/Honors Hist./Modern America (Reconstr-Present)/Honors	UNITS 3 3 6
	plete TWO (2) courses from LIST A:	
LIST A HIST 1A/1AH OR	History of Western (European) Civilization/Honors	3
HIST 2B	World History to 1500	3
HIST 1B/1BH OR	History of Western (European) Civilization/Honors	3
HIST 2C/2CH Subtotal Units	World History Since 1500/Honors	3 6
IN ADDITION, com LIST B Area 1	plete ONE (1) course from each Area in LIST B:	
Any LIST A course not already used		
HIST 9A	History of China	3 3
HIST 9B	History of Japan & Korea	3
HIST 9C	History of India & Southeast Asia	3
HIST 18	History of Mexico	3
HIST 25	History of American Women	3

HIST 27A HIST 27B Subtotal Units	African American History to 1877 African American History 1877 to present	3 3 3
Area 2		
Any LIST A course	not already used	3
HIST 8A/8AH	History of the Americas/Honors	3
HIST 8B/8BH	History of the Americas (Modern Era)/Honors	3
HUMAN 1/1H	Comparative World Cultures/Honors	3
OR		
SOCSC 1/1H	Comparative World Cultures/Honors	3
HUMAN 7	Intro to Ethnic Histories and Identity	3
OR		
SOCSC 7	Intro to Ethnic Histories and Identity	3
Subtotal Units		3
TOTAL UNITS		18

HORTICULTURE

The Horticulture program provides students with the training and practical experience for an entry level position as well as continuing education for those working in the horticulture industry.

Associate in Science (A.S.) Degree, Horticulture (Plan Code: 2962)

This degree 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. This Associate Degree will prepare students for career advancement once a certificate has been earned. Appropriate course selection may also facilitate transfer in a related major.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Distinguish 100 landscape plants suitable for different landscape situations with proper cultural practices.
- Demonstrate safe and efficient competence with hand and power tools used in the trade.
- Demonstrate fundamental technical skills to cultivate and manage edible and ornamental plants in horticultural production systems.
- Demonstrate fundamental landscaping principles to layout and install residential gardens.

REQUIRED COURSES		UNITS
HORT 11A	Plant Identification: Trees	3
HORT 11B	Plant Identification: Shrubs	3
HORT 11C	Plant Identification: Herbaceous	3
HORT 11D	Plant Identification: Tropicals	3
HORT 15A	Basic Horticulture	2
OR		
HORT 15B	Basic Horticulture	2
Subtotal Units		14

IN ADDITION, complete TWENTY (20) units from the following:		
BIO 5	Plant Biology	4
FLO 286A	Introduction to Floral Design: Fall Flowers	2
FLO 286B	Introduction to Floral Design: Spring Flowers	2
HORT 15A	Basic Horticulture	2
OR		
HORT 15B	Basic Horticulture	2
HORT 19	Turf Management	4
HORT 21	Principles of Landscape Design	3
HORT 26A	Plant Propagation-Spring	4
HORT 26B	Plant Propagation-Fall	4
HORT 30	Integrated Pest Management	3
HORT 202	Principles of Pruning	4
HORT 223	Landscape Construction	4
HORT 227	Interior Plant Design/Installation/Maint.	2
HORT 430	Landscape Maintenance	4
KINPP 23	First Aid and Safety	3
MGMT 58	Leadership and Supervision	3
MGMT 80	Small Business Entrepreneurship	3
MKTG 47	Essentials of Marketing	3
Subtotal Units		20
TOTAL UNITS		34

Certificate of Achievement, Horticulture (Plan Code: 3962)

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.

Program Student Learning Outcomes:

- Distinguish 100 landscape plants suitable for different landscape situations with proper cultural practices.
- Demonstrate safe and efficient competence with hand and power tools used in the trade.
- Demonstrate fundamental technical skills to cultivate and manage edible and ornamental plants in horticultural production systems.
- Demonstrate fundamental landscaping principles to layout and install residential gardens.

REQUIRED COURSES—Complete the **34 units** of required courses as listed in the Associate Degree in Horticulture major requirements.

HOSPITALITY MANAGEMENT

Associate in Science in Hospitality Management for Transfer Degree (A.S.-T) (Plan Code: 5140B/C)

The Associate in Science in Hospitality Management for Transfer degree prepares students to complete lower-level requirement for transfer to the Hospitality Management program at the CSU system to continue academic study in the field. Students completing this degree will attain the fundamental knowledge of the hospitality industry. The degree provides students with an introduction to hospitality, food preparation, restaurant management, foodservice management, cost control in hospitality, and sanitation and safety.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Examine the hospitality industry's social and economic indicators and develop proficient management strategies.

REQUIRED CORE COURSES		UNITS
CULAR 10	Intro to Hospitality	3
IN ADDITION, com	plete EIGHT to NINE (8-9) units or THREE (3) courses f	rom LIST A:
LIST A		
CULAR 20	App. Food Serv. Sanit in Hotel/ Rstr. Mgmt.	2
CULAR 30	Cost Control in Hospitality	3
CULAR 90	Intro to Culinary Skills & Principles	4
ECON 2/2H	Micro Economic Analysis/Honors	3
IN ADDITION, complete SIX to SEVEN (6-7) units or TWO (2) courses from LIST B: LIST B		
Any LIST A course	not already used	2-4
ACCTG 1A	Financial Accounting	5
LAW 18	Fundamentals of Business Law	3
MATH 21B	Statistics Pathway B	5
STAT 1/1H	Elementary Statistics/Honors	4
TOTAL UNITS		18-23

HUMAN SERVICES

The Human Services program prepares students for careers in the helping professions, may prepare students for the first two years of their transferable Human Services education and enhance the skills of persons already employed in this field. In addition, students will be provided with several personal/interpersonal skills needed to live healthy lives and deal with the stressful demands of daily living.

Associate in Arts (A.A.) Degree, Human Services Addiction Studies (Plan Code: 1811)

This Associate Degree in Human Services Addiction Studies will prepare students for an entry-level position in the addiction treatment and recovery field. Completing the coursework for this program will prepare students for certification as a Certified Addiction Treatment Counselor (CATC). The Program is accredited by the California Alcohol and Drug Education (CAADE). Students interested in state-level certification will need to pass a state examination. The program's coursework can also assist career advancement for those already employed in occupations related to addiction counseling and treatments. Students may also learn the skills and knowledge necessary to transfer to upper division programs in social work, psychology, or human services.

Successful Human Services, Addiction Studies program completion requires that students understand and abide by the state requirements in holding and updating valid clinical credentials and certificates while seeing clients.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop a psychosocial treatment plan for a client.
- Demonstrate knowledge of key theories and approaches underlying human services intervention and prevention models for diverse populations with drug use disorders.

REQUIRED COURSES		UNITS
HS 41	Introduction to Chemical Dependency	3
HS 43	Case Management: Treatment & Aftercare	3
HS 46	Physiology & Pharmacology of Drugs	3
HS 47	Intervention, Treatment & Recovery	3
HS 48	Group & Family Process	3
HS 50	Law and Ethics	3
HS 72A	Field Instruction and Seminar I	3.5
HS 72B	Field Instruction and Seminar II	3.5
HS 153	Multicultural and Diverse Populations	3
HS 162	Addiction Counseling Skills	3
HS 252	Co-Occurring Disorders	3
PSYCH 1/1H	Introduction to Psychology/Honors	3
PSYCH 14	Abnormal Psychology	3
TOTAL UNITS		40

Certificate of Achievement, Addiction Studies (Plan Code: 3811)

This Certificate of Achievement in Addiction Studies will prepare students for entry-level occupations in the field of addiction treatment and recovery field. Completing the coursework for this program will prepare students for certification as a Certified Addiction Treatment Counselor (CATC). Students interested in state-level certification must take additional courses required to be eligible for the state examination. Completing this certificate may also prepare the student for the associate degree in Human Services Addiction Studies.

Program Student Learning Outcomes:

- Demonstrate an ability to work with a diverse population in resolving chronic and crisis issues that impact family, health, employability and social standing.
- Demonstrate knowledge of key theories and approaches underlying human services intervention and prevention
 models for population with drug use disorders, linking participants to related resources for treatment, locating and
 providing resources for social services and helplines for treatment and prevention, understand how culture
 impacts help seeking and recovery, learning advocacy against the stigma surrounding drugs and society.

REQUIRED COURSES—Complete the **40 units** of required courses as listed in the Associate Degree in Human Services Addiction Studies major requirements.

Associate in Arts (A.A.) Degree, Human Services Generalist (Plan Code: 1810)

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. Jobs may include case management, care giver, advocate, and activities coordinator. Students learn the skills and knowledge necessary to potentially 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.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop a psychosocial treatment plan for a client.
- Analyze information and assess level of crisis intervention needed to best meet client needs.

REQUIRED COURSES		UNITS
HS 1	Introduction to Social Work	3
HS 50	Law and Ethics	3
HS 43	Case Management: Treatment & Aftercare	3
HS 48	Group & Family Process	3
Subtotal		12
IN ADDITION, com	plete FOUR (4) courses from the following:	
HS 45	Stress Management for Case Managers	3
HS 207	Development of Helping/Listening Skills	3
HS 7	Introduction to Victimology	3
HS 252	Co-Occurring Disorders	3
HS 242	Conflict Resolution/ Mediation	3
HS 260	Domestic Violence Intervention Strategies	3
HS 15	Social Welfare: People with Disabilities	3
HS 41	Introduction to Chemical Dependency	3
HS 26	Introduction to Gerontology	3
HS 72A	Field Instruction and Seminar I	3.5
Subtotal Units		12-12.5
TOTAL UNITS		24-24.5

Certificate of Achievement, Human Services Generalist (Plan Code: 3810)

This Certificate of Achievement 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. Jobs may include case management, care giver, advocate, and activities coordinator. Students learn the skills and knowledge necessary to potentially 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.

Program Student Learning Outcomes:

• Demonstrate an ability to work with a diverse population in resolving chronic and crisis issues that impact family, health, employability and social standing.

REQUIRED COURSES—Complete the **24-24.5** of required units as listed in the Associate Degree in Human Services Generalist major requirements.

JOURNALISM

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.

Associate in Arts in Journalism for Transfer Degree (A.A.-T) (Plan Code: 5014B/C)

The Associate in Arts in Journalism for Transfer degree is designed to provide students with exciting hands-on media training for students interested in journalism or other mass communication career options. Courses such as Beginning Newswriting and Reporting, Intro to Global Communication, Multimedia Newsroom, Photojournalism and Magazine Feature Writing prepare students to become strong researchers, information gatherers, vital communicators and advocates needed today in industries such as journalism, reporting, news production, advertising, media relations, public information and other forms of mass communications. Students also develop important technical skills in industry software and learn

vital production processes while building social skills. Students are trained to be knowledgeable of the variety of jobs, functions and production process of the mass media industry. They will be able to produce quality media content based on current media standards and they will understand the role of journalism and mass media in society. The study of journalism develops critical reading, writing, and thinking skills that are crucial for success at the university level. The overall mission of this program is to aid students in developing the requisite knowledge and skills to excel upon transfer to the CSU and UC systems.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Gather and prepare material accurately and fairly while meeting deadlines.
- Apply teamwork skills to publish a newspaper, magazine, or website.

REQUIRED CORE COURSES		UNITS
JOURN 10	Intro to Global Media Communications	3
JOURN 20	Beginning Newswriting and Reporting	4
JOURN 80	Multimedia Newsroom: News	4
Subtotal Units		11
IN ADDITION, com	plete ONE (1) course from LIST A:	
LIST A		
JOURN 5	Introduction to Public Relations	4
JOURN 35	Photojournalism	3
JOURN 86	Multimedia Editors: Design	4
JOURN 87	Multimedia Editors: Visuals	4
JOURN 88	Multimedia Editor Training: Management	4
Subtotal Units		3-4
IN ADDITION, com	plete TWO (2) courses from LIST B:	
LIST B		
JOURN 1A	Digital Design and Publication	3
STAT 1/1H	Elementary Statistics/Honors	4
COMM 40	Introduction to Communication Theory	3
ECON 1/1H OR	Macro Economic Analysis/Honors	3
ECON 2/2H	Micro Economic Analysis/Honors	3
POLSC 1/1H	Introduction to Government/Honors	3
POLSC 2/2H	Comparative Government/Honors	3
ENGL 3/3H	Argumentative and Critical Writing/Honors	4
PHIL 12	Introduction to Logic	3
OR		
PHIL 22	Symbolic Logic	3
COMM 60	Elements of Argumentation and Debate	3
Subtotal Units		6-8
TOTAL UNITS		20-23

Associate in Arts (A.A.) Degree, Journalism – Newspaper/Magazine (Plan Code: 1411)

This degree, with an emphasis in newspapers and magazines, provides a basic program for students interested in careers requiring journalistic training, such as newspaper or Internet reporting, magazine or free-lance writing.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Gather and prepare material accurately and fairly while meeting deadlines.
- Apply teamwork skills to publish a magazine.

REQUIRED COURSES		UNITS
JOURN 1A	Digital Design and Publication	3
OR		
JOURN 6	Magazine Writing	3
JOURN 10	Intro to Global Media Communications	3
JOURN 20	Beginning Newswriting and Reporting	4
JOURN 25	Free-Lance Writing	3
JOURN 35	Photojournalism	3
OR		
JOURN 36	Digital Photojournalism	3
Subtotal Units		16
IN ADDITION, com	plete TWO (2) courses from the following:	
JOURN 40	Social Media in Journalism	3
JOURN 81	Multimedia Newsroom: Features	4
JOURN 82	Multimedia Newsroom: Profiles	4
JOURN 83	Multimedia Newsroom: Politics	4
Subtotal Units		7-8
TOTAL UNITS		23-24

Associate in Arts (A.A.) Degree, Journalism – Public Relations (Plan Code: 1412)

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.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Gather and prepare material accurately and fairly while meeting deadlines.
- Write correctly and clearly in forms and styles appropriate for the communications professions, audiences and purposes they serve.

REQUIRED COURSES		UNITS
JOURN 1A	Digital Design and Publication	3
JOURN 5	Introduction to Public Relations	4
JOURN 10	Intro to Global Media Communications	3
JOURN 20	Beginning Newswriting and Reporting	4
JOURN 36	Digital Photojournalism	3
Subtotal Units		17
IN ADDITION, complete TWO (2) courses from the following:JOURN 81Multimedia Newsroom: FeaturesJOURN 82Multimedia Newsroom: ProfilesJOURN 83Multimedia Newsroom: PoliticsSubtotal UnitsKeating Statement		4 4 8
TOTAL UNITS		25

Associate in Arts (A.A.) Degree, Journalism – Publications Specialist (Plan Code: 1413)

The Publications Specialist emphasis provides a basic program for students interested in learning to produce a variety of publications including newsletters, brochures, websites, proposals, social-media platforms and house magazines.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Gather and prepare material accurately and fairly while meeting deadlines.
- Use news judgment to select, produce and publish journalistic content.

REQUIRED COURSES		UNITS
JOURN 1A	Digital Design and Publication	3
JOURN 6	Magazine Writing	3
JOURN 20	Beginning Newswriting and Reporting	4
JOURN 25	Free-Lance Writing	3
JOURN 35	Photojournalism	3
OR		
JOURN 36	Digital Photojournalism	3
Subtotal Units		16
IN ADDITION, complete TWO (2) courses from the following:		
JOURN 40	Social Media in Journalism	3
JOURN 81	Multimedia Newsroom: Features	4
JOURN 82	Multimedia Newsroom: Profiles	4
JOURN 83	Multimedia Newsroom: Politics	4
Subtotal Units		7-8
TOTAL UNITS		23-24

Certificate of Achievement, Photojournalism (Plan Code: 3414)

The Photojournalism Certificate of Achievement provides students with the ability to learn the entry-level skills necessary to embark upon a career in the news online and documentary photography field. It includes emphasis on practical applications leading to career advancement.

Program Student Learning Outcomes:

• Create photographic projects or bodies of work that meet professional standards.

REQUIRED COURSES		UNITS
ENGL 1/1H	Reading & Composition/Honors	4
OR		
ENGL 105	Fundamentals of Writing	4
PHOT 31	Basic Photography - Black and White	4
PHOT 32	Introduction to Digital Photography	4
PHOT 35	Photography for Publication	3
Subtotal Units		15
IN ADDITION, complete TWO (2) courses from the following:		
JOURN 81	Multimedia Newsroom: Features	4
JOURN 82	Multimedia Newsroom: Profiles	4
JOURN 83	Multimedia Newsroom: Politics	4
Subtotal Units		8

Complete NINE to ELEVEN (9-11) units from the following:			
JOURN 6	Magazine Writing	3	
JOURN 40	Social Media in Journalism	3	
JOURN 81	Multimedia Newsroom: Features	4	
OR			
JOURN 82	Multimedia Newsroom: Profiles	4	
OR			
JOURN 83	Multimedia Newsroom: Politics	4	
JOURN 86	Multimedia Editors: Design	4	
OR			
JOURN 87	Multimedia Editors: Visuals	4	
OR			
JOURN 88	Multimedia Editor Training: Management	4	
PHOT 39	Photography on Location	3	
Subtotal Units		9-11	
TOTAL UNITS		32-34	

KINESIOLOGY

The Department of Kinesiology prepares students in the study of exercise, physical activity and sport, educates students in the study of human movement, and provides students with an opportunity to prepare for transfer or a career in the field of human movement and wellness.

Associate in Arts in Kinesiology for Transfer Degree (A.A.-T) (Plan Code: 5004B/C)

The Associate in Arts in Kinesiology for Transfer (A.A.-T) degree is designed to prepare students with a general education in the principles, concepts and methodologies of Kinesiology. This degree is designed to increase students' awareness, understanding and knowledge of the broad range of career paths within the field of Kinesiology and to prepare them for seamless transfer to a California State University.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate proficiency in skills needed in activities commonly included in a human movement program.

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- Examine and evaluate physical activities and their relationship to wellness and fitness.
- Recognize various career opportunities in the field of human movement.

REQUIRED CORE COURSES		UNITS
KINPP 1	Introduction to Kinesiology	3
ANAT 1	Human Anatomy	4
PHYSI 1	Human Physiology	5
Subtotal Units		12

IN ADDITION, complete ONE (1) course from THREE of the following areas:

AQUATICS	
KING 76	Swimming

COMBATIVES		
KING 65	Martial Arts	1
KING 66	Self-Defense	1
FITNESS		
KINPF 6	Cardio Fitness	1
KINPF 14	Yoga	1
KINPF 17	Jogging	1
KINPF 17B	Jogging	1
KINPF 18	Triathlon Training	1
KINPF 21	Low Impact Aerobics	1
KINPF 22	Physical Fitness	1
KINPF 42	Swimming Fitness	1
KINPF 54	Weight Training	1
INDIVIDUAL SPOR	TS	
KING 10	Badminton	1
KING 10B	Badminton	1
KING 84	Tennis	1
TEAM SPORTS		
KING 2	Ultimate Frisbee	1
KING 14	Basketball	1
KING 14B	Basketball	1
KING 70	Soccer	1
KING 70B	Soccer	1
KING 74	Softball	1
KING 86	Touch Football	1
KING 90	Volleyball	1
KING 90B	Volleyball	1
KING 92	Sand Volleyball	1
KING 94	Rugby	1
Subtotal Units		3
IN ADDITION, complete TWO (2) courses from LIST A:		
LIST A		
STAT 1/1H	Elementary Statistics/Honors	4
CHEM 1A	General Chemistry	5.5
OR		
CHEM 3	Intro to Gen, Organic & Biochemistry	5
PHYS 2A	General Physics	4.5
OR		
PHYS 3A	Physics for Sci. & EngMechanics	5.5
KINPP 23	First Aid and Safety	3
Subtotal Units		7-11
TOTAL UNITS		22-26

Associate in Arts (A.A.) Degree, Kinesiology (Plan Code: 1701)

A Kinesiology Associates Degree prepares students for entry-level positions as physical activity specialists in fitness, health, and medical settings (i.e. health clubs, rehabilitative exercise centers, sports medicine clinics); educational settings (i.e. elementary and secondary schools); and community service agencies (e.g. YMCAs, Boys and Girls Clubs, neighborhood recreation centers, private and public camps).

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate knowledge of rules, strategies, techniques, and etiquette of various activities to promote lifelong fitness.

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- Demonstrate knowledge of basic aspects of a training/fitness program.
- Recognize various career opportunities in the field of human movement.

REQUIRED COURSES		UNITS
KINPP 1	Introduction to Kinesiology	3
KINPP 4	Lifetime Wellness Principles	3
KINPP 23	First Aid and Safety	3
Subtotal Units		9
IN ADDITION, co	omplete SIX (6) units from the following:	
KINPP 5	Sports Appreciation	3

KINPP 5	Sports Appreciation	3
KINPP 7	Intro to Community Recreation	3
KINPP 8	Stress Management through Physical Activity	3
KINPP 10	Prevention & Care of Athletic Injuries	3
KINPP 12	Techniques of Physical Fitness	2
KINPP 14	Theory of Athletic Coaching	3
KINPP 15	Sports Officiating-Fall	3
KINPP 17	Sports Officiating-Spring	3
KINPF 81	Fitness and Wellness Center	1
Subtotal Units		6

IN ADDITION, complete NINE (9) units from at least FOUR of the following categories:

ACTIVITY THEORY		
KINPP 75	Exercise Science & Fitness Assessment	3
KINPP 70	Fitness Program Design & Instruction	3
KINPP 230	Kinesiology Practicum	3
KINPP 233	Techniques of Strength and Conditioning	3
AQUATICS		
KING 55	Lifeguard/Water Safety Training	4
KING 76	Swimming	1
KINPF 3	Aqua Calisthenics	1
KINPF 4	Deep Water Aerobics	1

KINPF 42 Swimming Fitness
INDIVIDUAL & DUAL ACTIVITIES

KING 10	Badminton	1
KING 10B	Badminton	1
KING 84	Tennis	1
FITNESS		
KINA 1	PE for the Physically Limited	1
KINPF 6	Cardio Fitness	1
KINPF 8	Circuit Weight Training	1
KINPF 8B	Circuit Weight Training	1
KINPF 10	Stretch & Relaxation	1
KINPF 10B	Stretch & Relaxation	1
KINPF 12	Core Conditioning	1
KINPF 12B	Core Conditioning	1

KINPF 14	Yoga	1
KINPF 17	Jogging	1
KINPF 17B	Jogging	1
KINPF 18	Triathlon Training	1
KINPF 18B	Triathlon Training	1
KINPF 21	Low Impact Cardio	1
KINPF 22	Physical Fitness	1
KINPF 22B	Physical Fitness	1
KINPF 23	Cycling Conditioning	1
KINPF 24	Cardio Cross Fit	1
KINPF 53	Resistance Training	1
KINPF 53B	Resistance Training	1
KINPF 54	Weight Training	1
KINPF 54B	Weight Training	1
KINPF 84A	Fitness & Wellness	2
KINPF 84B	Fitness & Wellness	2
COMBATIVE		
KING 65	Martial Arts	1
KING 65B	Martial Arts	1
KING 66	Self Defense	1
KING 66B	Self Defense	1
TEAM SPORTS		
KING 2	Ultimate Frisbee	1
KING 2B	Ultimate Frisbee	1
KING 14	Basketball	1
KING 14B	Basketball	1
KING 70	Soccer	1
KING 70B	Soccer	1
KING 74	Softball	1
KING 86	Touch Football	1
KING 90	Volleyball	1
KING 90B	Volleyball	1
KING 92	Sand Volleyball	1
KING 92B	Sand Volleyball	1
KING 94	Rugby	1
INTERCOLLEGIATE	ATHLETICS	
KINIA 1AD	Baseball: Men	3
KINIA 2AD	Off-Season Conditioning for Athletes	0.5-3
KINIA 3AD	Basketball: Men	3
KINIA 4AD	Pre-Season Training for Athletes	0.5-3
KINIA 5AD	Cross Country: Men	3
KINIA 7AD	Football: Men	3
KINIA 13AD	Soccer: Men	3
KINIA 15AD	Swimming: Men	3
KINIA 19AD	Track & Field: Men	3
KINIA 21AD	Volleyball: Men	3
KINIA 23AD	Water Polo: Men	3
KINIA 27AD	Basketball: Women	3
KINIA 29AD	Cross Country: Women	3
KINIA 33AD	Beach Volleyball: Women	3
KINIA 35AD	Soccer: Women	3

KINIA 37AD	Softball: Women	3
KINIA 39AD	Swimming: Women	3
KINIA 41AD	Tennis: Women	3
KINIA 43AD	Track & Field: Women	3
KINIA 45AD	Volleyball: Women	3
KINIA 47AD	Water Polo: Women	3
Subtotal Units		9
TOTAL UNITS		24

Certificate of Accomplishment, Athletic Coaching (Plan Code: 4701)

This certificate is recognized in the greater Long Beach area for enhanced employment opportunities in the field of coaching.

Program Student Learning Outcomes:

• Develop a statement of philosophy for athletic coaching.

REQUIRED COUR	SES	UNITS
KINPP 5	Sports Appreciation	3
KINPP 14	Theory of Athletic Coaching	3
KINPP 15	Sports Officiating (Fall)	3
KINPP 17	Sports Officiating (Spring)	3
KINPP 23	First Aid and Safety	3
TOTAL UNITS		15

LIBRARY TECHNICIAN

The goal of the Library program is to prepare all students for transfer, vocational, and to become lifelong learners to function effectively in a highly technological society with an information-based economy. Library systems are designed, and the staff is organized and committed, to achieving the following objective: to help users develop information competency, a broad-based literacy that includes the skill to identify, retrieve, evaluate, and apply information to a problem-solving context.

Associate in Science (A.S.) Degree, Library Technician (Plan Code: 2033)

The Library Technician Associate in Science Degree is designed to teach the fundamentals of knowledge and skills needed for today's library technicians, library assistants, and library support staff. The degree is designed to successfully prepare students for employment with entry and mid-level library technician positions in public, academic, school, special libraries, and other information-related industries. It encompasses library automation essentials such as acquisitions, cataloging, circulation, public access catalogs, techniques of information retrieval, and leadership.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate knowledge of theory and skillsets related to services in library and information settings.

REQUIRED COURS	ES	UNITS
Complete FIFTEEN	(15) units from the following:	
LIB 200	Foundations of Library Services	3
LIB 210	Introduction to Access Services	3
LIB 220	Introduction to Acquisitions	3
LIB 230	Special Topics in Library Services	3
LIB 240	Introduction to Cataloging	3
LIB 250	Introduction to Youth Services	3
Subtotal Units		15
IN ADDITION, com	plete THREE to FOUR (3-4) units from the following:	
COSA 30	Introduction to Computers	3
COSA 35	Microsoft Office	3
COMM 20	Elements of Interpersonal Communication	3
COMM 25	Elements of Intercultural Communication	3
LIB 271WE	Work Experience-Library Technician	1-4
Subtotal Units		3-4
TOTAL UNITS		18-19

Certificate of Achievement, Library Technician (Plan Code 3030)

The Library Technician Certificate of Achievement is designed to teach the fundamentals of knowledge and skills needed for today's Library Technicians. The program is designed to successfully prepare students for employment with entry and midlevel library technician positions in public, academic, school, special libraries, and other information-related industries. It encompasses library automation essentials such as acquisitions, cataloging, circulation, public access catalogs, techniques of information retrieval, and leadership.

Program Student Learning Outcomes:

- Demonstrate knowledge of theory and skillsets related to services in library and information settings.
- Demonstrate communication skills that contribute to the functioning as a library technician.

REQUIRED COURSES—Complete the **18-19 units** of required courses as listed in the Associate Degree in Library Technician major requirements

Certificate of Completion, Library Technician (Plan Code: 4240)

The Library Technician Certificate of Completion is designed to teach the fundamentals of knowledge and skills needed for today's Library Technicians. The program is designed to successfully prepare students for employment with entry and midlevel library technician positions in public, academic, school, special libraries, and other information-related industries. It encompasses library automation essentials such as acquisitions, cataloging, circulation, public access catalogs, techniques of information retrieval, and leadership.

- Demonstrate knowledge of theory and skillsets related to a library's technical services.
- Demonstrate knowledge of theory and skillsets related to a library's patron-facing services.

REQUIRED COUF	RSES	HOURS
Complete TWO H	HUNDRED SEVENTY (270) hours from the following:	
LIB 600	Foundations of Library Services	54
LIB 610	Introduction to Access Services	54
LIB 620	Introduction to Acquisitions	54

TOTAL HOURS		270
LIB 650	Introduction to Youth Services	54
LIB 640	Introduction to Cataloging	54
LIB 630	Special Topics in Library Services	54

Certificate of Completion, Library Technician Patron Facing (Plan Code: 4241)

The Library Technician Patron Facing Certificate of Completion is designed to teach the fundamentals of knowledge and skills needed for today's Library Technicians. The program is designed to successfully prepare students for employment with entry and mid-level library technician positions in public, academic, school, special libraries, and other information-related industries. It encompasses front-end library services such as access services, reference, techniques of information retrieval, and leadership.

Program Student Learning Outcomes:

• Demonstrate knowledge of theory and skillsets related to a library's patron-facing services.

REQUIRED CO	DURSES	HOURS
Complete ON	E HUNDRED EIGHT (108) hours from the following:	
LIB 610	Introduction to Access Services	54
LIB 630	Special Topics in Library Services	54
LIB 650	Introduction to Youth Services	54
TOTAL HOUR	S	108

Certificate of Completion, Library Technician Technical Services (Plan Code: 4242)

The Library Technician Technical Services Certificate of Completion is designed to teach the fundamentals of knowledge and skills needed for today's Library Technicians. The program is designed to successfully prepare students for employment with entry and mid-level library technician positions in public, academic, school, special libraries, and other information-related industries. It encompasses back-end services such as library automation, acquisitions, and cataloging.

Program Student Learning Outcomes:

• Demonstrate knowledge of theory and skillsets related to a library's technical services.

REQUIRED CO	URSES	HOURS
LIB 620	Introduction to Acquisitions	54
LIB 640	Introduction to Cataloging	54
TOTAL HOURS		108

Certificate of Competency, Information Competency (Plan Code: 4243)

The Information Competency Certificate of Competency is designed to teach students the fundamentals of information literacy and media literacy as well as advanced topics on scholarly research in an academic setting. This program helps students understand the information landscape, formulate a research question, determine which resources to use for research topics, and how to effectively navigate online searches using the Internet and academic databases. The program introduces students to the philosophical, ethical, and legal issues that surround information.

Program Student Learning Outcomes:

• Demonstrate knowledge of the concepts related to information literacy including the ability to find and evaluate accurate information in scholarly and public settings.

REQUIRED COURS	ES	HOURS
LIB 601	Information and Media Literacy	36
LIB 602	Searching Databases	18
LIB 603	Academic Research Strategies	54
TOTAL HOURS		108

LINGUISTICS

The mission of the Linguistics program is to provide students with discipline specific skills and knowledge for transfer to a 4year college or university. Since language in some form lies at the root of most human activities, commitment to a strong linguistics program is critical to the college's mission to "promote equitable student learning and achievement, academic excellence, and workforce development by delivering high quality educational programs and support services to our diverse communities."

Associate in Arts (A.A.) Degree, Linguistics (Plan Code: 1398)

This program focuses on the study of human language from many different aspects, including the structure of language, the sound system, words and their meanings, the history of language, language acquisition, language and the mind and language and culture.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Students will demonstrate awareness of the nature of language and its role in human society.
- Students will describe theories of language and how theories relate to data.
- Students will analyze linguistic structures and their functions.

REQUIRED COURS	ES	UNITS
LING 1/1H	Linguistics 1/Honors	3
LING 3	Introduction to World Languages	3
PHIL 12	Introduction to Logic	3
PSYCH 1/1H	Introduction to Psychology/Honors	3
Subtotal Units		12
IN ADDITION, com	plete SIX to TEN (6-10) units from the following:	
CDECE 58	Language and Literacy in Early Childhood	3
COMM 25	Elements of Intercultural Communication	3
ENGL 24	English Grammar	3
ASL 2	American Sign Language 2	4
ASL 3	American Sign Language 3	4
ASL 4	American Sign Language 4	4
CHIN 2	Elementary Chinese 2	5
FREN 2	Elementary French	5
FREN 2C	French 2 for Spanish Speakers	5
FREN 3	Intermediate French	5

FRFN 4	Intermediate French	5
FREN 25A		3
	Advanced French: Culture in Literature	-
GER 2	Elementary German	5
ITAL 2	Elementary Italian	5
ITAL 2C	Elementary Italian for Spanish Speakers	5
ITAL 4	Intermediate Italian	5
JAPAN 2	Elementary Japanese	5
JAPAN 3	Intermediate Japanese	5
JAPAN 4	Intermediate Japanese	5
KHMER 9	Khmer for Heritage Speakers	5
KHMER 10	Khmer for Heritage Speakers	5
SPAN 2	Elementary Spanish	5
SPAN 3/3H	Intermediate Spanish/Honors	5
SPAN 4	Intermediate Spanish	5
SPAN 8	Spoken Spanish	3
SPAN 9/9H	Spanish for Spanish Speakers/Honors	5
SPAN 10/10H	Spanish for Spanish Speakers/Honors	5
SPAN 25A	Advanced Spanish: Culture in Literature	3
SPAN 25B	Advanced Spanish: History	3
SPAN 25C	Advanced Spanish: Politics, Current Events	3
SPAN 25D	Advanced Spanish: Literature	3
Subtotal Units		6-10
		40.00
TOTAL UNITS		18-22

MATHEMATICS

The 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:

- Prepare students for transfer to baccalaureate-granting institutions.
- Nurture an appreciation of the role of mathematics in life.
- Enhance our students' ability to utilize mathematics and critical thinking in their lives.
- Support business and industry in economic development by providing a highly educated work-force.

Associate in Science in Mathematics for Transfer Degree (A.S.-T) (Plan Code: 5500B/C)

Students who are interested in becoming a scientist or engineer should consider obtaining the Associate in Science in Mathematics for Transfer degree. Mathematics is the underlying language of all of the physical and life sciences as well as engineering and business. Math is also the architecture upon which modern computers are based. The purpose of the Associate in Science in Mathematics for Transfer degree is threefold:

- 1. Students who complete the Associate in Science in Mathematics for Transfer degree will have a solid mathematical foundation with semesters of transferable university credit under their belt.
- 2. Students who complete the Associate in Science in Mathematics for Transfer degree have also taken a transferable elective course selected from the field of their choice.
- 3. Students who complete the Associate in Science in Mathematics for Transfer degree will receive priority admission with junior status into the California State University system.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze given information, then determine and execute a course of action.
- Analyze and interpret results.

REQUIRED CORE C MATH 60/60H MATH 70/70H MATH 80 Subtotal Units	First Calculus Course/Honors	UNITS 5 5 5 15
Subtotal Offics		15
	plete ONE (1) course from LIST A:	
LIST A MATH 84 Subtotal Units	Intro Differential Eqns and Linear Alg	5 5
IN ADDITION, com LIST B	plete ONE (1) course from LIST B:	
PHYS 3A	Physics for Sci. & Eng.—Mechanics	5.5
ENGR 54	Computer Methods	3.5
CS 11	Introduction to Computer Science-C++	4
CS 21	Introduction to Computer Science-Java	4
STAT 1/1H	Elementary Statistics/Honors	4
Subtotal Units		3.5-5.5
TOTAL UNITS		23.5-25.5

Associate in Science (A.S.) Degree, Mathematics (Plan Code: 2530)

This degree is designed to recognize competency in mathematics at a postsecondary level. This Associate Degree may facilitate transfer for a four-year degree.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze given information, then determine and execute a course of action.
- Analyze and interpret results.

REQUIRED COURS	ES	UNITS
ENGL 1/1H	Reading and Composition/Honors	4
ENGR 54	Computer Methods	3.5
MATH 60/60H	First Calculus Course/Honors	5
MATH 70/70H	Second Calculus Course/Honors	5
MATH 80	Third Calculus Course	5
MATH 84	Intro Differential Eqns and Linear Alg	5
PHYS 3A	Physics for Sci. & EngMechanics	5.5
Subtotal Units		33
IN ADDITION, com	plete TWO (2) courses from the following:	
BIO 1A	Biology for Science Majors	5
BIO 1B	Biology for Science Majors	5

CHEM 1A	General Chemistry	5.5
CHEM 1B	General Chemistry	5.5
ECON 1/1H	Macro Economic Analysis/Honors	3
ECON 2/2H	Micro Economic Analysis/Honors	3
GEOL 2	General Geology, Physical	3
GEOL 3/3H	Historical Geology/Honors	4.5
GEOL 5	Environmental Geology	3
PHYS 3B	Physics for Sci. & Eng E & M	4.5
PHYS 3C	Physics for Sci. & Eng Modern Physics	4.5
Subtotal Units		6-11
TOTAL UNITS		39-44

MEDICAL ASSISTING PROGRAM

The Medical Assisting program prepares competent Medical Assistants with cognitive, psychomotor, and affective learning domains to enable them to perform entry-level administrative and clinical tasks in a physician's office.

Associate in Science (A.S.) Degree, Medical Assisting: Combined Administrative/Clinical (Plan Code: 2608)

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 program is designed to be completed in one academic year and includes either the administrative or clinical assisting courses or a combination of both.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Accurately assess a patient's vital signs.
- Analyze medical records and accurately construct a medical insurance claim form.
- Inspect and correctly troubleshoot artifacts while performing an electrocardiogram.
- Apply common practices to Medical Asepsis in a physician's office and daily living.

REQUIRED COURSES		UNITS
FIRST SEMESTER		
BIO 60	Human Biology 1	4
OR		
ANAT 41	Anatomy & Physiology	5
AH 60	Medical Terminology	3
MA 270	Introduction to Medical Assisting	3
MA 280	Health Care Clinical Procedures	3
AND		
Administrative Opt	tion Courses	

Administrative Option Courses

Students choose either the accounting option or the database option. When an option is chosen, the student must complete the courses from that option.

ADMINISTRATIVE OPTIONS

OPTION 1 (Accoun	ting):	
ACCTG 200	Introduction to Accounting	3
COSA 1	Computer Information Competency	1
COSA 10	Microsoft Word for Windows	3
OPTION 2 (Databa	se):	
COSA 15	Microsoft Excel for Windows	3
COSA 25	Microsoft Access for Windows	3
Subtotal Units		19-21
SECOND SEMESTER	R	
AH 276	Health Care Law	1
MA 282	Advanced Health Care Clinical Procedures	3
MA 286	Medical Assisting Combined Practicum	4
MA 288	Medical Assisting Practicum Seminar	1
MA 290	Basic Medical Insurance Billing	3
AND		
Complete Administrative Option Courses		
Subtotal Units		12
TOTAL UNITS		31-33

Certificate of Achievement, Medical Assisting: Combined Administrative/Clinical (Plan Code: 3608)

An Administrative/Clinical Medical Assistant assists the physician in caring for the patient in the medical office or clinic. The range of administrative and 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, answering phones, scheduling in and out of office appointments, verifying insurance, greeting patients, insurance billing (CPT and ICD-10 coding), insurance authorizations, vital signs, and processing payments.

Program Student Learning Outcomes:

- Demonstrate clinical patient skills.
- Demonstrate administrative patient skills.
- Demonstrate medical office employability skills.

REQUIRED COURSES - Complete the **31-33 units** of required courses as listed in the Associate Degree in Medical Assisting: Combined Administrative/Clinical major requirements.

Certificate of Achievement, Medical Assisting: Administrative Option (Plan Code: 3606)

An Administrative Medical Assistant assists the physician in caring for the patient in the medical office or clinic. The range of Administrative duties include answering phones, scheduling in and out of office appointments, verifying insurance, greeting patients, insurance billing (CPT and ICD-10 coding), insurance authorizations, vital signs, and processing payments.

- Demonstrate administrative medical assistant skills.
- Demonstrate medical office employability skills.

REQUIRED COURSES

UNITS

FIRST SEMESTER		
BIO 60	Human Biology 1	4
OR		
ANAT 41	Anatomy & Physiology	5
AH 60	Medical Terminology	3
MA 270	Introduction to Medical Assisting	3
AND		

Administrative Option Courses

Students choose either the accounting option or the database option. When an option is chosen, the student must complete the courses from that option.

ADMINISTRATIVE OPTIONS

OPTION 1 (Accounting):			
ACCTG 200	Introduction to Accounting	3	
COSA 1	Computer Information Competency	1	
COSA 10	Microsoft Word for Windows	3	
OPTION 2 (Database):			
COSA 15	Microsoft Excel for Windows	3	
COSA 25	Microsoft Access for Windows	3	
Subtotal Units		16-18	

SECOND SEMESTER

AH 276	Health Care Law	1
MA 288	Medical Assisting Practicum Seminar	1
MA 290	Basic Medical Insurance Billing	3
Complete Administ	trative Option Courses	
Subtotal Units		5
TOTAL UNITS		21-23

Certificate of Achievement, Medical Assisting: Clinical Option (Plan Code: 3607)

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.

- Demonstrate clinical medical assistant skills.
- Demonstrate medical office employability skills.

REQUIRED COURSES		UNITS
FIRST SEMESTER		
BIO 60	Human Biology 1	4
OR		
ANAT 41	Anatomy & Physiology	5
AH 60	Medical Terminology	3
MA 270	Introduction to Medical Assisting	3

MA 280 COSA 1 Subtotal Units	Health Care Clinical Procedures Computer Information Competency	3 1 14-15
SECOND SEMESTE	R	
AH 276	Health Care Law	1
MA 282	Advanced Health Care Clinical Procedures	3
MA 286	Medical Assisting Combined Practicum	4
MA 288	Medical Assisting Practicum Seminar	1
MA 290	Basic Medical Insurance Billing	3
Subtotal Units		12
TOTAL UNITS		26-27

Certificate of Accomplishment, Emergency Medical Technician (Plan Code: 4010)

An Emergency Medical Technician (EMT) is a specially trained and certified professional who renders immediate medical care in basic life support practices. California law requires all ambulance attendants to be trained and certified to the EMT level and many fire agencies require firefighters to be EMT certified.

Program Student Learning Outcomes:

• Demonstrate ability to perform an appropriate primary/initial assessment of the ill or injured patient in the prehospital setting.

REQUIRED COURSES		UNITS
EMT 251	Emergency Medical Technician	4
EMT 251L	Emergency Medical Technician Laboratory	2
TOTAL UNITS		6

Certificate of Accomplishment, Medical Insurance Billing (Plan Code: 4044)

A Medical Insurance Biller is trained in medical insurance claim forms, healthcare delivery systems, diagnosis and procedure coding, billing and claims processing. These skills can help qualify you to work in physicians' offices or clinics, medical insurance companies, government agencies and other healthcare environments.

Program Student Learning Outcomes:

• Interpret health care data and properly complete a CMS claim form.

REQUIRED COURSES		UNITS
AH 60	Medical Terminology	3
MA 290	Basic Medical Insurance Billing	3
TOTAL UNITS		6

Certificate of Accomplishment, Phlebotomy (Plan Code: 4046)

A Phlebotomy Technician is a specially trained certified professional who performs skin puncture and venipuncture blood collection in a laboratory, hospital or physician's office. California law requires training must be obtained in a phlebotomy program approved by the California Department of Public Health.

Program Student Learning Outcomes:

- To prepare students to become accurate and reliable members of the health care team.
- To prepare students who are well qualified in phlebotomy practices to perform competent lab procedures for the patient.
- Obtain blood using various methods in patients across the lifespan.

REQUIRED CO	URSES	UNITS
AH 220	Phlebotomy	2
AH 223	Phlebotomy Practicum	1
TOTAL UNITS		3

METAL FABRICATION TECHNOLOGY

The Metal Fabrication Technology 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.

Associate in Science (A.S.) Degree, Metal Fabrication Technology (Plan Code: 2984)

The Associate Degree will provide the student with the technical competencies required to meet the demands of the metal fabrication industries. The Associate Degree will also provide the General Education courses that help build the scope of knowledge and self-confidence that prepare a student for the working environment.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- 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.

REQUIRED COURSES		UNITS
ELECT 253	OSHA Standards for Construction Safety	2
MTFAB 50	Introduction to Metalworking	4
MTFAB 220B	Advanced Metal Layout and Fabrication	4
MTFAB 220C	Power Metalworking Machine Operations	4
MTFAB 260	Blueprint Reading for Metal Fabrication	3
MTFAB 421	Metal Fabrication and Layout	1
WELD 50	Introduction to Welding	4
TOTAL UNITS		22

Certificate of Achievement, Metal Fabrication Technology: Advanced Skills (Plan Code: 3983)

The Advanced Skills Certificate of Achievement will prepare students for an entry-level position as a trainee in metal layout, fabrication, welding and installation. This certificate will place added emphasis on sheet metal CNC fabrication, drafting and welding and in preparation for acceptance into apprenticeship in one of the metalworking trades.

Program Student Learning Outcomes:

 Analyze and apply software to design a sheet metal part and export it to the CNC plasma table in the proper vector format. • Design and fabricate an advanced sheet metal project involving two different pieces of CNC fabrication equipment.

	EC	UNITS
REQUIRED COURS	Introduction to Metalworking	4
ELECT 202	Electrical Mathematics	3
ELECT 253	OSHA Standards for Construction Safety	2
MTFAB 220C	Power Metalworking Machine Operations	4
MTFAB 260	Blueprint Reading for Metal Fabrication	3
MTFAB 421	Metal Fabrication and Layout	1
WELD 50	Introduction to Welding	4
CONST 205	Forklift Fundamentals	0.5
Subtotal Units	lorkine i undumentalo	21.5
Subtotal Onits		21.5
IN ADDITION, com	plete ONE of the following areas of emphasis:	
Advanced Metal F	abrication and Layout Skills	
Complete ELEVEN	(11) units from the following:	
MTFAB 220B	Advanced Metal Layout and Fabrication	4
MTFAB 220D	CNC Metal Fabrication Systems	4
MTFAB 270	Metallurgy	3
Subtotal Units		11
Advanced Metal F	abrication and Arc Welding Skills	
	N (13) units from the following:	
WELD 212	Introduction to ShieldFed Metal Arc Welding	4
WELD 413	SMAW Flat/Horz Groove Welds with Backing	2
WELD 414	SMAW Vert & OHV/HD Grv Welds w/Backing	2
WELD 415	SMAW Flat/Horz Open Root Groove Welds	2
WELD 416	SMAW Vert & O/H Open Root Groove Welds	2
WELD 221	Arc Welding Structural Certification	3
MTFAB 270	Metallurgy	3
Subtotal Units		13
Advanced Metal F	abrication and Inert Gas Welding Skills	
	N (13) units from the following:	
WELD 214	Introduction to Gas Tungsten Arc Welding	4
WELD 213	Introduction to Semi-Automatic Welding	4
WELD 480	Welding (Inert Gas)	2
WELD 482	Gas Tungsten Arc Welding Basic Joints	2
WELD 483	Gas Metal Arc/Flux Core Arc Welding	2
WELD 221	Arc Welding Structural Certification	3
MTFAB 270	Metallurgy	3
Subtotal Units		13
		22 5 24 5
TOTAL UNITS		32.5-34.5

Certificate of Achievement, Metal Fabrication Technology: Core Skills (Plan Code: 3982)

The Core Skills Certificate of Achievement will prepare students for an entry-level position as a trainee in metal layout, fabrication, welding and installation.

Program Student Learning 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.

REQUIRED COURSI	ES	UNITS
MTFAB 50	Introduction to Metalworking	4
ELECT 202	Electrical Mathematics	3
ELECT 253	OSHA Standards for Construction Safety	2
MTFAB 220C	Power Metalworking Machine Operations	4
MTFAB 260	Blueprint Reading for Metal Fabrication	3
MTFAB 421	Metal Fabrication and Layout	1
WELD 50	Introduction to Welding	4
CONST 205	Forklift Fundamentals	0.5
TOTAL UNITS		21.5
RECOMMENDED b	ut not required courses:	
MTFAB 220D	CNC Metal Fabrication Systems	4
MTFAB 223	Sheet Metal Duct Systems and Fabrication	2
MTFAB 420	Metal Fabrication and Layout	2
MTFAB 421	Metal Fabrication and Layout	1
WELD 400	Welding (General)	2

Certificate of Achievement, Robotic Welding Automation (Plan Code: 3990)

The Certificate of Achievement in Robotic Welding Automation provides training to gain the technical and applied skills required to perform advanced programming and operational tasks as per the American Welding Society standards and specifications for robotic welding. The program prepares students for jobs in industry including but not limited to Computer-Controlled Machine Tool Operators for Metal and Plastic and Computer Numerically Controlled Machine Tool Programmers for Metal and Plastic.

Program Student Learning Outcomes:

• Safely operate common robotic welding automation systems while performing basic programming and welding functions.

REQUIRED COURSES		UNITS
MTFAB 280	Introduction to Robotic Welding	2.5
MTFAB 281	Intermediate Robotic Welding	2.5
WELD 50	Introduction to Welding	4
MTFAB 50	Introduction to Metalworking	4
MTFAB 260	Blueprint Reading for Metal Fabrication	3
MTFAB 270	Metallurgy	3
TOTAL UNITS		19

MUSIC

The Music program is designed to provide students with the technique and repertoire for a successful audition into a university major program, and the coursework necessary to complete core academic courses required for a lower-division major program. There are a number of curricular components that are needed to achieve these goals: theory, musicianship,

PROGRAMS OF STUDY

piano, and the applied performance program, which requires an audition for entrance into the program. The ultimate career goals after transferring to a university music program 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.

Associate in Arts in Music for Transfer Degree (A.A.-T) (Plan Code: 5008B/C)

The goals of the Associate in Arts in Music for Transfer degree are academic transfer to a university and preparation for audition into a university music program. The A.A.-T provides a streamlined core set of courses designed to align with comparable BA music degrees; BM degrees are available as well, depending on the institution.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Students will develop audition and ensemble repertoire and performance techniques at a level appropriate for transfer to a CSU.
- Students will develop proficiency in their music coursework, specifically theory and musicianship, at a level appropriate for transfer to a CSU.

REQUIRED CORE COURSES		UNITS
MUSIC 6	Introduction to Music Theory	3
AND		
MUSIC 1A	Music Theory I	3
MUSIC 1B	Music Theory II	3
MUSIC 2A	Music Theory III	3
MUSIC 5	Musicianship I	1
MUSIC 9	Musicianship II	1
MUSIC 10	Musicianship III	1
Subtotal Units		15
IN ADDITION, com	plete FOUR semesters (2 units) of the following:	
MUSIC 92AD	Applied Vocal & Instrumental Music	0.5
Subtotal Units		2
IN ADDITION. com	plete FOUR semesters (6 units) from ONE of the	
following performa	,	
MUSIC 11AD	Long Beach City College Viking Chorale	1.5
OR		
MUSIC 12AD	Long Beach City College Viking Singers	1.5
OR		
MUSIC 13AD	College Symphony Orchestra	1.5
OR		
MUSIC 23AD	Jazz Choir	1.5
OR		
MUSIC 24AD	Vocal Jazz Ensemble	1.5
OR		
MUSIC 38AD	Wind Ensemble	1.5
OR		
MUSIC 54AD	Jazz Big Band	1.5
OR		
MUSIC 57AD	Jazz Combos	1.5
Subtotal Units		6

IN ADDITION, complete THREE (3) units from LIST A: LIST A

MUSIC 16	Musicianship IV	1
MUSIC 40/40H	Appreciation of Music/Honors	3
Subtotal Units		3
TOTAL UNITS		26

Associate in Arts (A.A.) Degree, Music (Plan Code: 1220)

The Associate Degree in Music provides additional training and opportunities beyond the A.A.-T in Music, namely, study in piano proficiency requirements, additional elective ensemble opportunities, and a sophomore performance recital.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Students will achieve sophomore proficiency ranking in performance repertoire and technique.
- Students will achieve sophomore proficiency level in theory, musicianship, and piano placement exams.

REQUIRED COURSES		UNITS
MUSIC 1A	Music Theory I	3
MUSIC 1B	Music Theory II	3
MUSIC 2A	Music Theory III	3
MUSIC 5	Musicianship I	1
MUSIC 6	Introduction to Music Theory	3
MUSIC 9	Musicianship II	1
MUSIC 10	Musicianship III	1
MUSIC 16	Musicianship IV	1
MUSIC 17A	Advanced Applied Vocal & Instrumental Music	0.5
MUSIC 92AD	Applied Vocal & Instrumental Music (take 3 times)	0.5
Subtotal Units		18

IN ADDITION, complete each of the three REQUIRED components below: Performance Ensemble (Four Semesters)

Performance Ensemble (Four Semesters)			
MUSIC 11AD	Long Beach City College Viking Chorale	1.5	
OR			
MUSIC 12AD	Long Beach City College Viking Singers	1.5	
OR			
MUSIC 14AD	Orchestra	1.5	
OR			
MUSIC 38AD	Wind Ensemble	1.5	
OR			
MUSIC 23AD	Jazz Choir	1.5	
OR			
MUSIC 24AD	Vocal Jazz Ensemble	1.5	
OR			
MUSIC 54AD	Jazz Big Band	1.5	
Subtotal Units		6	
Piano Proficiency Component (Three Semesters)			

Beginning Piano 1

Beginning Piano 2

MUSIC 51A

MUSIC 51B

1.5

1.5

MUSIC 51C Subtotal Units	Intermediate Piano 1	1.5 4.5
Chamber Music Co	omponent (One Semester)	
MUSIC 25AD OR	Chamber Music Ensemble	1.5
MUSIC 41AD OR	Madrigal A'Capella Choir	1.5
MUSIC 57AD OR	Jazz Combos	1.5
MUSIC 24AD Subtotal Units	Vocal Jazz Ensembles	1.5 1.5
TOTAL UNITS		30

NURSING: LVN to RN CAREER LADDER PROGRAM

The nursing program provides a high-quality nursing education to qualified and diverse students. The program facilitates the development of entry-level nurses who are prepared to meet the evolving healthcare needs of the community. The faculty support a student-centered environment of collaboration, communication, safety, excellence and compassionate nursing care.

Accreditation

Long Beach City College is fully accredited by the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges. The nursing program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Rd., NE Suite 500, Atlanta, GA, 30326, (404) 975-5000 and approved by the State of California Board of Registered Nursing.

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, refer to the BRN site related to Prior Convictions and Disciplinary Actions. For additional questions, contact the ADN Program Director.

PROGRAM ADMISSION REQUIREMENTS

General Information Items:

- 1. All applicants must have a clear background as unclear backgrounds may prevent the student from completing clinical requirements and jeopardize licensure.
- 2. All applicants should be physically and emotionally fit. If selected, applicant will need to demonstrate proficiency in nursing skills and competencies in order to meet course objectives and progress in the nursing program.
- 3. A strong command of the English language, both written and verbal is essential for successful completion of the program.
- 4. Some clinical facilities require proof of legal U.S. residency in order to complete required clinical hours. In some cases, an alternative clinical site will not be available. A Social Security or Taxpayer I.D. is required by the California Board of Registered Nurses in order to obtain licensure as a Registered Nurse.
- 5. All applicants must show proof of high school graduation or equivalency in the form of a diploma, transcripts or GED. This requirement is waived if the applicant has an Associate Degree or higher.
- 6. All applicants must have a valid LVN license.

Sequential Procedure for Application to the Program:

- 1. Applicants are encouraged to attend an Associate Degree Nursing information session. Information sessions are held on a regular basis throughout the fall and spring semester. Dates and times are listed on the nursing website: http://nursing.lbcc.edu.
- 2. Complete MATH 130 and ENGL 1 or equivalent with a grade of "C" or higher.
- 3. Applicants must have a minimal overall GPA of 2.5 or higher.
- 4. Applicants must have a minimal GPA of 2.5 or higher in these science courses: Human Anatomy, Human Physiology and Microbiology. These science courses must be less than 5 years old at the time of application and have a grade of "C" or higher.
- 5. Unofficial transcripts from LBCC and all colleges attended must be submitted with the application. If accepted into the nursing program, official transcripts for colleges other than Long Beach City College will be required.
- 6. Complete the online application found on the nursing website (<u>http://nursing.lbcc.edu</u>) during the posted application period.
- 7. Incomplete applications will NOT be considered.
- 8. All provisionally selected applicants and alternates will be required to attend a mandatory Advisement Meeting to discuss further requirements such as the TEAS test, background check and health information.

Associate in Science (A.S.) Degree, LVN to RN Career Ladder (Plan Code: 2626)

The degree prepares students for an entry-level position in a variety of health care settings following successful completion of the NCLEX-RN, the registered nurse national licensing exam. The graduate is qualified for immediate employment in acute care hospitals and many other health care facilities. The ADN also serves as a foundation for specialization. Graduates of the Associate Degree Nursing Program are also eligible to transfer into the upper division nursing courses in ADN to bachelor's degree nursing programs and ADN to master's degree nursing programs.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Synthesize the theories and principles that encompass the nursing process and pathological conditions.

UNITS

• Manage all aspects of the nursing process to achieve positive patient outcomes.

PREREQUISITES

1. Complete the following courses with a "C" or better.

•	0	
ANAT 1	Human Anatomy	4
PHYSI 1	Human Physiology	5
BIO 2	General Microbiology	5
PSYCH 1/1H	Introduction to Psychology/Honors	3
ENGL 1/1H	Reading and Composition/Honors	4
Subtotal Units		21

RECOMMENDED but not a required course:

ADN 225	Nursing Applications of Pharmacology	3
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- 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
- 3. Hold a current license to practice as a Vocational Nurse in California.

REQUIRED COURSES UNITS		
FIRST SEMESTER		
ADN 20A	Transition to Second Level Nursing	1
	(Student must be prepared to enter the program	
	within one year after successful completion of ADN 2	20A)
COMM 10,		
20, or 30	General Ed. Requirement	3
SOCIO 1/1H	Introduction to Sociology/Honors	3
Subtotal Units		7
SECOND SEMESTE	-	
ADN 21B	Mental Health	2.5
ADN 21BL	Mental Health Lab	3
ADN 31A	Trends in Nursing A	1
ADN 35A	Maternal/Newborn Nursing	1.5
ADN 35AL	Maternal/Newborn Nursing Lab	1.5
ADN 35B	Pediatric Nursing	1.5
ADN 35BL	Pediatric Nursing Lab	1.5
Subtotal Units		12.5
THIRD SEMESTER		
ADN 22B	Advanced Nursing II Role Transition	2.5
ADN 22BL	Adv. Nursing II Role Transition Lab	3
ADN 31B	Trends in Nursing B	1
ADN 45A	Advanced Medical/Surgical Nursing	2.5
ADN 45AL	Advanced Medical/Surgical Nursing Lab	3
Subtotal Units		12
TOTAL UNITS		31.5
TOTAL PROGRAM UNITS (including prerequisites)		68.5

4. Entrance is not guaranteed. Entrance is determined by space availability.

Certificate of Achievement, LVN to RN Career Ladder (30-unit option) (Plan Code: 3626)

The Certificate of Achievement prepares students for an entry-level position in a variety of health care settings following successful completion of the NCLEX-RN. Persons who complete only the certificate are not graduates of an accredited ADN program and may not qualify for license by endorsement in other states nor qualify for transfer to an ADN to BSN program.

PREREQUISITES			UNITS
1.	Complete the	following courses with a "C" or better.	
	PHYSI 1	Human Physiology	5
	BIO 2	General Microbiology	5
	Subtotal Unit	5	10

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.

REQUIRED COURSES		UNITS
FIRST SEMESTER ADN 20A Subtotal Units	Transition to Second Level Nursing	1 1
SECOND SEMESTE	R	
ADN 35A	Maternal/Newborn Nursing	1.5
ADN 35AL	Maternal/Newborn Nursing Lab	1.5
ADN 21B	Mental Health	2.5
ADN 21BL	Mental Health Lab	3
ADN 31A	Trends in Nursing A	1
Subtotal Units		9.5
THIRD SEMESTER		
ADN 45A	Advanced Medical/Surgical Nursing	1.5
ADN 45AL	Advanced Medical/Surgical Nursing Lab	1.5
ADN 22B	Advanced Nursing II - Role Transition	2.5
ADN 22BL	Advanced Nursing II Role Transition Lab	3
ADN 31B	Trends in Nursing B	1
Subtotal Units		9.5
TOTAL PROGRAM UNITS (including prerequisites)		30

NURSING: ASSOCIATE DEGREE (RN) PROGRAM

The nursing program provides a high-quality nursing education to qualified and diverse students. The program facilitates the development of entry-level nurses who are prepared to meet the evolving healthcare needs of the community. The faculty support a student-centered environment of collaboration, communication, safety, excellence and compassionate nursing care.

Accreditation

Long Beach City College is fully accredited by the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges. The nursing program is accredited by the Accreditation Commission for Education in Nursing, 3343 Peachtree Road NE Suite 500, Atlanta, GA 30326 and the State of California Board of Registered Nursing.

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 more information, refer to the BRN site related to Prior Convictions and Disciplinary Actions. For additional questions, contact the ADN Program Director.

PROGRAM ADMISSION REQUIREMENTS

General Information Items:

- 1. All applicants must have a clear background as unclear backgrounds may prevent the student from completing clinical requirements and jeopardize licensure.
- 2. All applicants should be physically and emotionally fit. If selected, applicant will need to demonstrate proficiency in nursing skills and competencies in order to meet course objectives and progress in the nursing program.
- 3. A strong command of the English language, both written and verbal is essential for successful completion of the program.

- 4. Some clinical facilities require proof of legal U.S. residency in order to complete required clinical hours. In some cases, an alternative clinical site will not be available. A Social Security or Taxpayer I.D. is required by the California Board of Registered Nurses in order to obtain licensure as a Registered Nurse.
- 5. All applicants must show proof of high school graduation or equivalency in the form of a diploma, transcripts or GED. This requirement is waived if the applicant has an Associate Degree or higher.

Sequential Procedure for Application to the Program:

- 1. Applicants are encouraged to attend an Associate Degree Nursing information session. Information sessions are held on a regular basis throughout the fall and spring semester. Dates and times are listed on the nursing website: http://nursing.lbcc.edu.
- 2. Complete MATH 130 and ENGL 1 or equivalent with a grade of "C" or higher.
- 3. Applicants must have a minimal overall GPA of 2.5 or higher.
- 4. Applicants must have a minimal GPA of 2.5 or higher in these science courses: Human Anatomy, Human Physiology and Microbiology. These science courses must be less than 5 years old at the time of application and have a grade of "C" or higher.
- 5. Unofficial transcripts from LBCC and all colleges attended must be submitted with the application. If accepted into the nursing program, official transcripts for colleges other than Long Beach City College will be required.
- 6. Complete the online application found on the nursing website (http://nursing.lbcc.edu) during the posted application period.
- 7. Incomplete applications will NOT be considered.
- 8. All provisionally selected applicants and alternates will be required to attend a mandatory Advisement Meeting to discuss further requirements such as the TEAS test, background check and health information.

Associate in Science (A.S.) Degree, Registered Nursing (Plan Code: 2620)

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. The graduate is qualified for immediate employment in acute care hospitals and many other health care facilities. The ADN also serves as a foundation for specialization. Graduates of the Associate Degree Nursing Program are also eligible to transfer into the upper division nursing courses in ADN to bachelor's degree nursing programs and ADN to master's degree nursing programs.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- 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.

PREREQUISITES	wing courses prior to applying to the program:	UNITS
ANAT 1	Human Anatomy	4
PHYSI 1	Human Physiology	5
BIO 2	General Microbiology	5
ENGL 1/1H	Reading and Composition/Honors	4
Subtotal Units		18
REQUIRED COURSE	ES	UNITS
FIRST SEMESTER		
ADN 11A	Introduction to Nursing	2.5
ADN 11AL	Introduction to Nursing Lab	1.5
ADN 11B	Health Deviations 1	2.5

ADN 11BL	Health Deviations 1 Lab	1.5
PSYCH 1/1H	Introduction to Psychology/Honors	3
SOCIO 1/1H	Introduction to Sociology/Honors	3
Subtotal Units		14
SECOND SEMEST	ED	
ADN 12A	Health Deviations 2	2.5
ADN 12AL	Health Deviations 2: Lab	1.5
ADN 12B	Health Deviations 3	2.5
ADN 12BL	Health Deviations 3: Lab	1.5
COMM 10,		
20, OR 30	General Ed. Requirements	3
Subtotal Units		11
THIRD SEMESTER	2	
ADN 21B	Mental Health	2.5
ADN 21BL	Mental Health Lab	3
ADN 31A	Trends in Nursing A	1
ADN 35A	Maternal/Newborn Nursing	1.5
ADN 35AL	Maternal/Newborn Nursing Lab	1.5
ADN 35B	Pediatric Nursing	1.5
ADN 35BL	Pediatric Nursing Lab	1.5
Subtotal Units		12.5
FOURTH SEMEST	ER	
ADN 22B	Advanced Nursing II Role Transition	2.5
ADN 22BL	Adv. Nursing II - Role Transition Lab	3
ADN 31B	Trends in Nursing B	1
ADN 45A	Advanced Medical/Surgical Nursing	2.5
ADN 45AL	Advanced Medical/Surgical Nursing Lab	3
Subtotal Units		12
TOTAL UNITS		67.5
RECOMMENDED	but not required courses:	
ADN 201	Nursing Skills Adjunct Lab	.5
ADN 202	Nursing Skills Adjunct Lab	.5
ADN 203	Nursing Skills Adjunct Lab	.5
ADN 204	Nursing Skills Adjunct Lab	.5
ADN 212	Clinical Practicum I	2
ADN 221	Clinical Practicum II	2
ADN 222	Clinical Practicum III	2
ADN 225	Pharmacology	3
ADN 810	Preparation for Nursing	.5
AH 60	Medical Terminology	3
VN 222	Intravenous Therapy & Blood Withdrawal	1.5
AH 225	Basic Arrhythmia Recognition	.5

NURSING: VOCATIONAL/PRACTICAL

Prepare students for entry-level vocational nursing licensure and competent practice.

PROGRAM ADMISSIONS REQUIREMENTS

- 1. California Nurse Assistant (CNA) Certificate
- 2. High School: Proof of high school graduation (12 years) is required. Official transcripts from a U.S. high school, or official General Educational Development (GED) certificate, or official transcripts from a college showing an AA/AS/BA/BS is required. All foreign transcripts must be evaluated by ACEI translation service.
- 3. Reading Proficiency: Meet graduation proficiency reading requirement, or completion of READ 82 or READ 83 with a grade of "C" or better, or Bachelor's Degree from an accredited U.S. college/university (foreign transcript evaluation not accepted for Reading).
- 4. Writing Proficiency: Meet graduation proficiency writing requirement or completion of English 105 or higher.
- 5. Grade Point Average: If previous college work has been completed, a GPA of 2.0 must be achieved.
- 6. Information Meeting: It is highly recommended that applicants attend a VN Information meeting prior to applying. Meetings are held monthly. Please view VN webpage to verify date and time of monthly meeting.
- 7. Prerequisite Courses: All prerequisite courses must be completed prior to applying to the program. Students may apply to the program at the end of the Fall and Spring semester. Please call the Nursing office for exact dates. Prerequisites must have been completed within the previous five years.
- 8. Background Check: Vocational nursing students must obtain a clear criminal background check prior to the first day of clinical experience. Vocational nursing graduates send fingerprints with the application for licensure.
- 9. A social security card is required by the California Board of Nursing in order to take the NCLEX. In addition, a social security card is required by some clinical agencies. Inability to provide proof of social security card may jeopardize a student from completing clinical requirements.

Program Information

- 1. Applications, along with all required documents, must be submitted the last week of Fall & Spring semester to the office staff of the School of Health and Science. Selection for admission to the next beginning class will be by lottery. If more students apply than can be accepted, selection will be based upon the student's science GPA.
- 2. We offer a full-time 3 semester (or 48 weeks) program. The program admits students twice a year in the Fall and Spring semesters.
- 3. While waiting for the program to start, the student should take any of the following courses to strengthen reading, language or mathematics skills and prepare for a nursing career: AH 60 (Medical Terminology), BIO 60 Lab (Human Biology Lab), CDECE 47 (Human Development), COUNS 1 (Orientation for College Success), LEARN 11 (Learning and Academic Strategies), MATH 110 (First Course in Algebra), PSYCH 1 (Introduction to Psychology), and SOCIO 1 (Introduction to Sociology), KINPP 23 (First Aid & Safety Education) and ENGL 1 (Reading & Composition), A.D.N. 810 (Preparation for Nursing).
- 4. For questions about any of the above, telephone the School of Nursing at (562) 938-4169 and (562) 938-4166 or visit the Vocation Nursing web page.

Associate in Science (A.S.) Degree, Nursing: Vocational/Practical (Plan Code: 2630)

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 Associate Degree Nursing Program for the Career Ladder LVN-RN Program. The associate degree also provides students with a broad-based education that prepares them for global citizenry.

Program Student Learning Outcomes:

• Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).

- Synthesize theories and principles necessary for licensure as a vocational nurse.
- Develop entry-level LVN job readiness skills and employment status 1-year post graduation.

Complete the following PREREQUISITE courses with a minimum grade of "C" or better in each course:

PREREQUISITE CO	URSES	UNITS	
BIO 60	Human Biology 1	4	
VN 225	Pharmacology	3	
OR			
ADN 225	Pharmacology	3	
VN 215	Fundamentals of Nursing	0-6	
OR			
Certified Nursing Assistant (CNA) certificate issued			
by the State of California (Contact Nursing Department)			
Subtotal Units		7-13	

Complete the following REQUIRED courses with a minimum grade of "C" or better in each course:

REQUIRED COURSES			
VN 220	Transition to Vocational Nursing	4	
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	
Subtotal Units		40	
TOTAL UNITS (including prerequisites)		47-53	

For both the Associate in Science and the Certificate of Achievement, the following
courses are recommended BUT ARE NOT REQUIRED to earn either.ADN 810Preparation for Nursing0.5AH 60Medical Terminology3VN 222Intravenous Therapy & Blood Withdrawal1.5AH 225Basic Arrhythmia Recognition0.5

Certificate of Achievement, Nursing: Vocational/Practical (Plan Code: 3630)

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 Associate Degree Nursing Program for the Career Ladder LVN-RN Program.

Program Student Learning Outcomes:

• Synthesize theories and principles necessary for licensure as a vocational nurse.

REQUIRED COURSES—Complete the **47-53 units** of required courses as listed in the Associate Degree in Nursing: Vocational/Practical major requirements.

Certificate of Accomplishment, Nursing Assistant (Plan Code: 4630)

This certificate prepares students in basic-entry level fundamental nursing skill sets. Completion of course VN 215 prepares students to test for the state competency examination for a Certified Nursing Assistant. (C.N.A.)

Program Student Learning Outcomes:

• Synthesize theories and principles necessary for certification as a nursing assistant.

REQUIRED COURSES		UNITS
VN 215	Fundamentals of Nursing	6
TOTAL UNITS		6

Certificate of Accomplishment, Home Health Aide (Plan Code: 4631)

Completion guarantees a state certificate as a Home Health Aide. Students must obtain their Certified Nursing Assistant (C.N.A.) before attending VN 216 course.

Program Student Learning Outcomes:

• Synthesize theories and principles necessary for certification as a home health aide.

REQUIRED COURSES		UNITS
VN 216	Home Health Aide	1.5
TOTAL UNITS		1.5

NUTRITION AND DIETETICS

Nutrition and Dietetics is one of the fastest growing industries. Hospitals, clinics, schools, senior living centers, wellness programs, community and public health centers, universities, and the hospitality industry are always in need of trained food service professionals. The Nutrition and Dietetics program prepare students for entry-level jobs in two years or less. Students earn state recognized certification and receive hands-on training in local healthcare facilities.

Associate in Science in Nutrition and Dietetics for Transfer Degree (A.S.-T) (Plan Code: 5506B/C)

This Associate in Science in Nutrition and Dietetics for Transfer degree prepares students for a major in Nutrition and Dietetics at a four-year institution. This degree will provide students with foundations in nutritional science, food principles, biology, microbiology, chemistry sciences, and statistics required towards a Bachelor of Science degree in Dietetics and Food Administration at the four-year university. This AS transfer degree will allow a seamless transition to the CSU system for students interested in a Registered Dietitian/Nutritionist professional pathway.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Utilize up to date, evidenced-based practices in the field of nutrition and dietetics.
- Communicate effectively orally and in writing in a health care or community nutrition environment whether working with children, families and seniors.
- Advocate within the community for continued support of health and nutrition.

REQUIRED CORE C	OURSES	UNITS
NUTR 20	Nutrition and Life	3
PSYCH 1	Introduction to Psychology	3
CHEM 1A	General Chemistry	5.5
BIO 2	General Microbiology	5
Subtotal Units		16.5
IN ADDITION, com	plete TWO (2) courses from LIST A:	
LIST A		
CHEM 12A	Organic Chemistry	5.5
ANAT 1	Human Anatomy	4
STAT 1	Elementary Statistics	4
Subtotal Units		8-9.5
	olete ONE (1) course from LIST B:	
LIST B		
NUTR 21	Food Selection and Meal Preparation	4
Subtotal Units		4
TOTAL UNITS		28.5-30

Associate in Arts (A.A.) Degree, Dietetic Service Supervisor (Plan Code: 1320)

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 Nutritionist (RDN) or administrator. This program is the state approved program meeting federal Omnibus Budget Reconciliation Act (OBRA) and Title 22 requirements of the California State Department of Public Health and Certification 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.

LINITS

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- 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.

REQUIRED COURSES

NEQUINED COON		01115
NUTR 20	Nutrition and Life	3
NUTR 21	Food Selection and Meal Preparation	4
NUTR 24	Sanitation, Safety and Equipment	3
NUTR 25	Intro to Food Service/Work Organizations	3

NUTR 227	Supervision and Training Techniques	3
NUTR 28	Food Production Management	3
NUTR 230A	Clinical Field Experience I	2.5
NUTR 230B	Clinical Field Experience I	2.5
NUTR 31	Menu Planning and Food Purchasing	3
NUTR 32	Therapeutic Diets	3
TOTAL UNITS		30

TOTAL UNITS

RECOMMENDED for the Natural Sciences Requirement:

BIO 60 (preferred), BIO 2, PHYSI 1, ANAT 1, or any CHEM.

RECOMMENDED for the Proficiency in Mathematics:

It is recommended that the student complete this proficiency prior to enrollment in NUTR 28 and NUTR 32 by presenting a passing score on the placement test or successful completion of a mathematics course at the level of elementary algebra (MATH 110 or 220) or higher.

RECOMMENDED for the Social Sciences Requirement: SOCIO 1 or PSYCH 1

Associate in Science (A.S.) Degree, Nutrition Assistant (Plan Code: 2321)

The Nutrition Assistant is a member of the dietetic health care team, functioning under the direction of a Registered Dietitian Nutritionist (RDN). This 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. For the Nutrition Assistant Program, students must fulfill the Associate Degree requirements (by completing the Certificates of Achievement for the Dietetic Service Supervisor 30-unit program, Nutrition Assistant program courses 13 units and the graduation requirements). Students completing the associate degree, in Nutrition Assistant are eligible for transfer to a four-year university and can continue their education in Dietetics/Food and Nutrition. This degree offers a Registered Dietitian Nutritionist (RDN) pathway.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs). •
- Synthesize the theory and principle of clinical nutrition care. •
- Manage a Healthcare kitchen to industry standards. ٠

Complete the 30-unit coursework required for the

Develop and conduct a nutrition presentation within a community agency as identified by the Academy of Nutrition and Dietetics.

REQUIRED COURSES

UNITS

Dietetic Service Supervisor Program:			
NUTR 20	Nutrition and Life	3	
NUTR 21	Food Selection and Meal Preparation	4	
NUTR 24	Sanitation, Safety and Equipment	3	
NUTR 25	Intro to Food Service/Work Organizations	3	
NUTR 28	Food Production Management	3	
NUTR 31	Menu Planning and Food Purchasing	3	
NUTR 32	Therapeutic Diets	3	
NUTR 227	Supervision and Training Techniques	3	
NUTR 230A	Clinical Field Experience I	2.5	
NUTR 230B	Clinical Field Experience I	2.5	
Subtotal Units		30	

IN ADDITION, complete the following:			
NUTR 34	Advanced Nutrition Care	3	
NUTR 35	Advanced Medical Nutrition Therapy	3	
NUTR 236	Dietetic Professional Development Seminar	1	
NUTR 240A	Clinical Field Experience II	3	
NUTR 240B	Clinical Field Experience II	3	
Subtotal Units		13	

TOTAL UNITS

RECOMMENDED for the Natural Sciences Requirement:

BIO 60 (preferred), BIO 2, PHYSI 1, ANAT 1, or any CHEM.

RECOMMENDED for the Proficiency in Mathematics:

It is recommended that the student complete this proficiency prior to enrollment in NUTR 28 and NUTR 32 by presenting a passing score on the placement test or successful completion of a mathematics course at the level of elementary algebra (MATH 110 or 220) or higher.

43

UNITS

Certificate of Achievement, Dietetic Service Supervisor (Plan Code: 3320)

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 Omnibus Budget Reconciliation Act (OBRA) and Title 22 requirements of the California State Department of Public Health and Certification 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 as supervisors in community nutrition agencies, school lunch, elder nutrition and child nutrition programs. Upon successful completion of the program, the student is eligible to apply for a Certificate of Achievement in Dietetic Service Supervisor. This certificate is approved by the Associate in Nutrition and Food service Professionals (ANFP) organization, which administers the credentialing exam for the Certified Dietary Manager certificate, to be recognized as Dietetic Service Supervisor (DSS)/Certified Dietary Manager (CDM) program.

Program Student Learning 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.

REQUIRED COURSES

NEQUINED COOL	(SES	
NUTR 20	Nutrition and Life	3
NUTR 21	Food Selection and Meal Preparation	4
NUTR 24	Sanitation, Safety and Equipment	3
NUTR 25	Intro to Food Service/Work Organizations	3
NUTR 227	Supervision and Training Techniques	3
NUTR 28	Food Production Management	3
NUTR 230A	Clinical Field Experience I	2.5
NUTR 230B	Clinical Field Experience I	2.5
NUTR 31	Menu Planning and Food Purchasing	3
NUTR 32	Therapeutic Diets	3
TOTAL UNITS		30

Certificate of Achievement, Formula Room Technician (Plan Code: 3221)

This Certificate of Achievement will prepare an individual to be employed as a Formula Room Technician or Formula Room Human Milk Technician in specialized formula rooms in children hospitals and other health care institutions. The Formula Room Technician is responsible for safe and effective operation of equipment needed to prepare infant formula and maintain sanitation in the preparation room.

Program Student Learning Outcomes:

- Evaluate proper safety and sanitation techniques utilized in food service systems.
- Create menus for modified diets in the health care setting.

REQUIRED COURSES		UNITS
NUTR 20	Nutrition and Life	3
NUTR 21	Food Selection and Meal Preparation	4
NUTR 24	Sanitation, Safety and Equipment	3
NUTR 32	Therapeutic Diets	3
NUTR 34	Advanced Nutrition Care	3
COSA 1	Computer Information Competency	1
TOTAL UNITS		17

Certificate of Completion, Cake Decorating Techniques (Plan Code: 4322)

Topics in this program include cake decorating techniques, recipes, tools and skill development, cake decorating, creating cakes with special effects, candy molds, novelties, international styles, delivery, set up techniques and business practices. A variety of icings, designs, and shaping techniques will be covered. Upon successful completion, students will receive a Certificate of Completion in Cake Decorating Techniques.

Program Student Learning Outcomes:

- Apply design concepts and techniques in creating cakes/products for special occasions.
- Use a variety of decorating techniques.

REQUIRED COURSES		HOURS
FT 651	Cake Decorating Techniques	54
FT 652	Cake Decorating for Special Occasions	54
TOTAL HOURS		108

Certificate of Completion, Certified Dietary Manager (CDM) Board Exam Preparation (Plan Code: 4320)

The Certified Dietary Manager program provides topics including information, resources, and insights to facilitate students' preparation for the national credentialing examination for dietary managers in health care institutions. Topics cover the five competency areas included in the Certified Dietary Manager (CDM) Board exam, namely: Nutrition, Foodservice, Personnel and Communications, Sanitation and Food Safety, and Business Operations.

Program Student Learning Outcomes:

- Describe the various topics of the CDM Board Exam BluePrint.
- Pass all three sections of the CDM Board Practice Exam including Personnel and Communications section, Sanitation and Food Safety section and Business Operations section with a score of 75% or higher.

REQUIRED COURSES		HOURS
NUTR 601	CDM Board Exam Preparation 1	18
NUTR 602	CDM Board Exam Preparation 2	18
TOTAL HOURS		36

PHILOSOPHY

The discipline of philosophy is a fundamental course of study for all college students. Philosophy courses explore enduring human concerns regarding the nature of knowledge, reality, the mind, and values. Students are trained to understand and analyze classic philosophical texts as well as to think critically about contemporary issues relating to social justice, human rights, the environment, technology, art, and religion. Philosophy courses help to instill lifelong habits of questioning, analyzing, and exploring alternative viewpoints. The study of philosophy also develops critical reading, writing, and thinking skills that are crucial for success at the university level. The overall mission of this program is to aid students in developing the requisite knowledge and skills to excel upon transfer to the CSU and UC systems.

Associate in Arts in Philosophy for Transfer Degree (A.A.-T) (Plan Code: 5012B/C)

Associate in Arts in Philosophy for Transfer degree is designed to guide students in the exploration of a diversity of philosophical ideas, and to enhance their critical thinking, logic, and imaginative skills. Students who complete the philosophy degree will be able to explain, analyze, and assess a wide variety of philosophical issues. A second purpose is to prepare students for transfer to a university. Upon completion of their program, philosophy majors will be able to describe and analyze various philosophical problems with both academic and practical applications. They will be able to utilize critical thinking and logic skills in philosophical contexts as well as other academic and non-academic areas.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Describe philosophical problems and apply critical thinking and logic skills to analyze them.

REQUIRED CORE COURSES		UNITS
Complete TWO (2	?) courses from the following:	
PHIL 22	Symbolic Logic	3
AND		
PHIL 6/6H	Introduction to Philosophy	3
OR		
PHIL 7/7H	Introduction to Ethics	3
Subtotal Units		6
IN ADDITION, con	nplete ONE (1) course from LIST A:	
LIST A		
Any REQUIRED CO	DRE not already used	3
PHIL 9	Introduction to Existentialism	3
PHIL 10	Introduction to Feminist Philosophy	3
Subtotal Units		3

IN ADDITION, comp LIST B	plete TWO (2) courses from LIST B:	
Any LIST A course r	not already used	3
HIST 1A	History of Western (European) Civilization	3
HIST 1B	History of Western (European) Civilization	3
PHIL 14	Philosophy of Religion	3
Subtotal Units		6
IN ADDITION, comp LIST C	plete ONE (1) course from LIST C:	
Any LIST A or B course not already used		3
PHIL 11	Critical Thinking	3
PHIL 12	Introduction to Logic	3
PHIL 8	Introduction to Non-Western Philosophy	3
Subtotal Units		3
TOTAL UNITS		18

PHYSICAL SCIENCES

The Physical Sciences program offers lower division courses which provide an understanding of physical science concepts and thus permits students to transfer to a baccalaureate degree program in various physical science majors.

Associate in Science in Physics for Transfer (A.S.-T) Degree (Plan Code: 5540C)

The Physics Associate Degree for Transfer will prepare students for transfer to a University of California (UC) or California State University (CSU) program in Physics while meeting the minimum lower division admission requirements (60 transferable units). Completion of these classes also provides a foundation for programs in Physical Science, Engineering and Math.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze problems and formulate solutions using a combination of graphs, drawings, equations, and conceptual reasoning at the appropriate level.

REQUIRED CORE COURSES		UNITS
MATH 60/60H	First Calculus Course	5
MATH 70/70H	Second Calculus Course	5
MATH 80	Third Calculus Course	5
PHYS 3A	Physics for Sci. & Eng. – Mechanics	5.5
PHYS 3B	Physics for Sci. & Eng E & M	4.5
PHYS 3C	Physics for Sci. & Eng Modern Physics	4.5
TOTAL UNITS		29.5

Associate in Arts (A.A.) Degree, Physical Sciences (Plan Code: 1540)

This Associate Degree will prepare students for an entry-level position as a technician. Appropriate course selection will also facilitate transfer in a related major.

Associate in Science (A.S.) Degree, Physical Sciences (Plan Code: 2540)

This Associate Degree will prepare students for an entry-level position as a laboratory or environmental technician. Appropriate course selection will also facilitate transfer in a related science major. The A.S. degree requires fewer General Education units, allowing for more physical science units to be counted toward the degree.

UNITS

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Differentiate between unsupported opinions and verifiable scientific facts supported by observations, experiments, and scientific theory.
- Demonstrate a foundational scientific understanding of a specific field of science.

REQUIRED COURSES

Complete THIRTEEN to FIFTEEN (13-15) units from the following:		
ASTR:	All courses	
CHEM:	Either CHEM 2, 3 or 1A (but limited to only one of these courses),	

Subtotal Units 13-15	
PHYS:	PHYS 2A or 3A but not both, PHYS 2B or 3B but not both, PHYS 3C
GEOL:	GEOL 1 or 1H or 2 & 2L, any other Geology course taught at LBCC
PGEOG:	All courses
ENVRS:	ENVRS 1
	any among CHEM 1B, CHEM 12A or CHEM 12B
0	

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 to SIX (5-6) units from any Mathematics course which has a prerequisite of Intermediate Algebra (MATH 130) or higher

Subtotal Onits	5-0
TOTAL UNITS	19-25
NOTE: Courses are offered each semester excluding the following:	

PHYS 3C is offered once each year, usually in the second semester. GEOL 3 is offered once each year, usually in the second semester.

POLITICAL SCIENCE

The political science major provides systematic knowledge of the nature and scope of political science with a diverse academic regimen of academic research and practical application. In a nutshell, it is the study of politics and government with concentrations that include American government, public policy, foreign affairs, political philosophy, and comparative government. In addition, a political science major is preparation for general education, good citizenship and participation in political life.

Associate in Arts in Political Science for Transfer Degree (A.A.-T) (Plan Code: 5005B/C)

The Associate in Arts in Political Science for Transfer degree offers students a comprehensive education in the theoretical as well as practical applications of the discipline. A variety of offered political science courses aid in familiarizing students with the diverse and interrelated subfields in the area of Political Science. The mission of this program (Associate in Arts in

Political Science for Transfer degree) is to provide a definitive course of study in political science to a diverse population of students, ultimately preparing those students for transfer to California State University. This program in political science (Associate in Arts in Political Science for Transfer degree) is a broad theoretical and practical major that is applicable to everyday life, which further fulfills the general requirements of the California State University transfer system.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Students will demonstrate a systematic knowledge of the nature and scope of political science, particularly in terms of American government and politics.
- Students will develop the necessary skills to civically participate in ways that support a representative democracy.

REQUIRED CORE COURSES		UNITS
POLSC 1/1H	Introduction to Government/Honors	3
Subtotal Units		3
IN ADDITION, com LIST A	plete THREE (3) courses from LIST A:	
POLSC 11	Introduction to Political Theory	3
POLSC 2/2H	Comparative Government/Honors	3
POLSC 4/4H	World Politics/Honors	3
POLSC 10	Introduction to Political Science	3
STAT 1/1H	Elementary Statistics/Honors	4
Subtotal Units		9-10
IN ADDITION, com	plete TWO (2) courses from LIST B:	
LIST B		
Any course from Lis	st A not already used	3-4
POLSC 3	Issues of American Government	3
POLSC 9	The Const., Law & Society	3
HUMAN 7	Intro to Ethnic Histories and Identity	3
OR		
SOCSC 7	Intro to Ethnic Histories and Identity	3
PUBAD 1	Introduction to Public Administration	3
Subtotal Units		6-7
TOTAL UNITS		18-19

PSYCHOLOGY

The psychology program presents psychology as the science of mental processes and behaviors, providing research results applicable to everyday life and benefiting human welfare. A second purpose is to prepare students for transfer to a university. Upon completion of their program, psychology majors will be able to describe psychological science as a diverse field of research with both academic and practical applications, that encompasses more than a dozen major subfields. They will be able to identify and explain the four goals of psychology (really, the four goals of science). These goals are description, explanation, prediction and control of mental processes and behaviors occurring within an individual as well as within inter- personal, cultural, and global contexts. Students completing the psychology major program will be equipped to use the scientific method to explore healthy mental processes and behaviors, as well as the pathological ones. Psychology coursework is done in a variety of subspecialties including social psychology, abnormal psychology, cognitive psychology,

biological psychology, and personality, psychology of gender and sexuality and research methods. Psychology curriculum introduces students to many of these subspecialties in preparation for upper division coursework at a four-year college or university.

Associate in Arts in Psychology for Transfer Degree (A.A.-T) (Plan Code: 5000B/C)

The Associate in Arts in Psychology for Transfer Degree is designed to expose students to a diverse field of academic research and practical application. The science of psychology deals with description, explanation, prediction and control of mental processes and behaviors occurring within an individual as well as within the inter-personal, cultural and global contexts. Students scientifically explore healthy mental processes and behaviors, as well as the pathological (abnormal) ones in terms of how they affect one's daily functioning within the mentioned contexts, and how to diagnose, explain and treat that pathology. This psychology program (Associate in Arts in Psychology for Transfer Degree) offers students a comprehensive education in the content as well as scientific method of the discipline emphasizing the processes of creating hypotheses as well as hypothesis testing. A variety of offered psychology courses familiarize students with diverse yet interrelated psychology sub-fields. The mission of this program is to provide a major presenting psychology as a science (of mental processes and behaviors) applicable to everyday life, as well as to provide a major that fulfills the general requirements of the California State University transfer system.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
- Apply basic research methods in psychology, including research design, data analysis, and interpretation.
- Examine problems related to behavior and mental processes through the scientific approach.

REQUIRED CORE C	UNITS		
STAT 1/1H	Elementary Statistics/Honors	4	
PSYCH 1/1H	,	3	
PSYCH 2	Research Methods for Psychology	4	
Subtotal Units		11	
IN ADDITION, com LIST A	plete ONE (1) course from LIST A:		
PSYCH 6	Physiological Foundations of Psychology	3	
Subtotal Units		3	
IN ADDITION, com LIST B			
PSYCH 11	Social Psychology	3	
Subtotal Units		3	
IN ADDITION, complete ONE (1) course from LIST C: LIST C			
Any LIST A or LIST	3		
PSYCH 4	Psychology of Adjustment	3	
PSYCH 10	Human Sexuality	3	
OR			
HLED 10	Human Sexuality	3	
Subtotal Units		3	
TOTAL UNITS		20	

PUBLIC HEALTH SCIENCE

Associate in Science in Public Health Science for Transfer Degree (A.S.-T) (Plan Code: 5508B/C)

The Associate in Science in Public Health Science for Transfer degree (A.S.-T) is designed to prepare students with a general education in the principles, concepts and methodologies of Public Health. Public Health is a dynamic field that focuses on community-based efforts to prevent disease, prolong life, and promote healthy environments and lifestyles. Students will be prepared for careers in a variety of settings, including hospitals, state and local health departments, non-profit agencies, educational institutions, research organizations, health clinics, and international programs. This degree is designed for seamless transfer to a California State University.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Appraise the guiding principles of public health as a discipline, including how public health differs from personal health.
- Propose public health interventions to improve the health of a population.

REQUIRED CORE C	UNITS	
HLED 3	Contemporary Health Problems	3
HLED 21	Introduction to Public Health	3
STAT 1/1H	Elementary Statistics/Honors	4
BIO 41/41H	Contemporary Biology/Honors	3
CHEM 1A	General Chemistry	5.5
PSYCH 1/1H	Introduction to Psychology/Honors	3
ANAT 1	Human Anatomy	4
AND		
PHYSI 1	Human Physiology	5
Subtotal Units		30.5
IN ADDITION, complete ONE (1) course from LIST A: LIST A		
ECON 2/2H	Micro Economic Analysis/Honors	3
ECON 1/1H	Macro Economic Analysis/Honors	3
NUTR 20	Nutrition and Life	3
HLED 10	Human Sexuality	3
HLED 22	Health and Social Justice	3
HLED 24	Drugs, Health and Society	3
SOCIO 1/1H	Introduction to Sociology/Honors	3
Subtotal Units		3
TOTAL UNITS		33.5

RADIO/TELEVISION BROADCAST NEWS

This program's mission is to provide an academic (A.A.) 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.

Associate in Arts (A.A.) Degree, Radio/Television Broadcast News (Plan Code: 1251)

This degree is designed to teach the fundamental knowledge and skills needed for today's Broadcast, Cable, Web, and other forms of digital media news productions. Students prepare for writing, editing and producing radio, television, and other forms of digital media news and news feature programs. The degree prepares students for career advancement in this field and may facilitate transfer, in film/television, communications, broadcasting, journalism, or digital media arts, to a four-year college or university, such as CSU, UC, Chapman University or USC. Employment opportunities include audio/video technicians, camera operators, producers/directors, writers, editors, and a plethora of other audio/video support staff for all forms of digital media news productions.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze the elements of pre-production, production, and post-production to create an industry-ready news segment.

REQUIRED COURSES		UNITS		
R TV 1	Introduction to Broadcasting	3		
	Introduction to Media Production	3		
OR				
R_TV 13	Television Production	3		
R_TV 14	Electronic Field Production	3		
R_TV 36	Broadcast News Production	2.5		
R_TV 270WE	Work Experience-Radio, TV	1		
Subtotal Units		12.5		
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 8	Introduction to Media Production	3		
OR				
R_TV 13	Television Production	3		
R_TV 12	Television Lighting	2.5		
R_TV 15	Sports Production	3		
R_TV 34	Music Video Production	2.5		
R_TV 37	Radio/Television Management and Sales	3		
R_TV 60	Pro Tools (Digital Audio Recording/Edit)	3		
R_TV 216	Non-Linear Video & Film Editing	2.5		
Subtotal Units		6		
		10 5		
TOTAL UNITS		18.5		

Certificate of Achievement, Radio/Television Broadcast News (Plan Code: 3251)

This certificate is designed to teach the fundamental knowledge and skills needed for today's Broadcast, Cable, Web, and other forms of digital media news productions. Students prepare for writing, editing and producing radio, television, and other forms of digital media news and news feature programs. The Certificate of Achievement will prepare students for career advancement in this field. Employment and internship opportunities include audio/video technicians, camera operators, producers/directors, writers, and a plethora of other audio/video support staff for all forms of digital media news productions.

Program Student Learning Outcomes:

• Critically assess the responsibilities of various creative and technical staff positions and evaluate the importance of each to the production.

REQUIRED COURSES—Complete the **18.5 units** of required courses as listed in the Associate Degree in Radio/Television Broadcast News major requirements.

RADIO/TELEVISION PERFORMANCE

This program's mission is to provide an academic (A.A.) 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.

Associate in Arts (A.A.) Degree, Radio/Television Performance (Plan Code: 1252)

The Radio/Television Performance Associate in Arts Degree is designed to teach the fundamentals of knowledge and skills needed for today's "On- Air" performer in Broadcast, Cable, Web, and other forms of digital media. Students prepare for performing in these productions either independently or as part of a cast. 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 film/television, communications, broadcasting, journalism, or digital media arts. Possible transfers to four-year universities include CSU, UC, and private universities such as Chapman University and USC. Employment opportunities include announcers, reporters, correspondents, radio hosts and contributors, and podcast talent.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Critically assess the responsibilities of various creative and technical staff positions and evaluate the importance of each to the production.

REQUIRED COURSES		UNITS		
R_TV 1	Introduction to Broadcasting	3		
R_TV 8	Introduction to Media Production	3		
OR				
R_TV 13	Television Production	3		
R_TV 21	Radio Production	3		
R_TV 36	Broadcast News Production	2.5		
R_TV 40	On-Camera Performance	2.5		
R_TV 270WE	Work Experience-Radio, TV	1		
Subtotal Units		15		
IN ADDITION, complete FIVE to SIX (5-6) units from the following,				
which have not already been taken as a required course:				
R_TV 2	Intro to Careers in Radio & Television	2		
R_TV 8	Introduction to Media Production	3		
OR				
R_TV 13	Television Production	3		

R_TV 12	Television Lighting	2.5
R_TV 14	Electronic Field Production	3
R_TV 15	Sports Production	3
R_TV 37	Radio/Television Management and Sales	3
R_TV 60	Pro Tools (Digital Audio Recording/Edit)	2.5
R_TV 216	Non-Linear Video & Film Editing	2.5
Subtotal Units		5-6
TOTAL UNITS		20-21

Certificate of Achievement, Radio/Television Performance (Plan Code: 3252)

The Radio/Television Performance Certificate of Achievement is designed to teach the fundamentals of knowledge and skills needed for today's "On- Air" performer in Broadcast, Cable, Web, and other forms of digital media. Students prepare for performing in these productions either independently or as part of a cast. The Certificate of Achievement will prepare students for career advancement in this field. Employment and internship opportunities include announcers, reporters, correspondents, radio hosts and contributors, and podcast talent.

Program Student Learning 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 impact of each to the production.

REQUIRED COURSES—Complete the **20-21 units** of required courses as listed in the Associate Degree in Radio/Television Performance major requirements.

RADIO/TELEVISION PRODUCER

This program's mission is to provide an academic (A.A.) 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.

Associate in Arts (A.A) Degree, Radio/Television Producer (Plan Code: 1253)

The Radio/Television Producer Associate in Arts degree is designed to teach the fundamentals of knowledge and skills needed for today's media producer via Broadcast, Cable, Web, and other forms of digital media program content. Students prepare for producing media productions either independently or in a production environment. 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 film and television, communications, broadcasting, or digital media arts. Possible transfers are to four-year universities such as CSU, UC, and private universities such as Chapman University and USC. Employment and internship opportunities include audio/video technicians, camera operators, producers/directors, writers, editors, and a plethora of other audio/video support staff for all forms of digital media content.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Critically assess the responsibilities of various creative and technical staff positions and evaluate the importance of each to the production.

REQUIRED COURSES UNITS		
R TV 1	Introduction to Broadcasting	3
 RTV 4	Writing and Production Planning	3
R_TV 8	Introduction to Media Production	3
OR		
R_TV 13	Television Production	3
R_TV 14	Electronic Field Production	3
R_TV 21	Radio Production	3
R_TV 216	Non-Linear Video & Film Editing	2.5
R_TV 270WE	Work Experience-Radio, TV	3
Subtotal Units		18.5
-	plete TWO to THREE (2-3) units from the following:	2
R_TV 2	Intro to Careers in Radio & Television	2 3
R_TV 8 OR	Introduction to Media Production	3
R TV 13	Television Production	3
R TV 12	Television Lighting	2.5
	Sports Production	3
R_TV 34	Music Video Production	2.5
R_TV 36	Broadcast News Production	2.5
R_TV 37	Radio/Television Management and Sales	3
R_TV 40	On-Camera Performance	2.5
R_TV 60	Pro Tools (Digital Audio Recording/Edit)	3
Subtotal Units		
TOTAL UNITS	2	20.5-21.5

Certificate of Achievement, Radio/Television Producer (Plan Code: 3253)

The Radio/Television Producer Certificate of Completion is designed to teach the fundamentals of knowledge and skills needed for today's media producer via Broadcast, Cable, Web, and other forms of digital media program content. Students prepare for producing media productions either independently or in a production environment. The Certificate of Completion will prepare students for career advancement in this field. Employment and internship opportunities include audio/video technicians, camera operators, producers/directors, writers, editors, and a plethora of other audio/video support staff for all forms of digital media content.

Program Student Learning Outcomes:

- Demonstrate collaboration skills related to personnel and timelines for an industry-ready radio or television segment.
- Critically assess the responsibilities of various creative and technical staff positions and evaluate the importance of each to the production.

REQUIRED COURSES–Complete the **20.5-21.5 units** of required courses as listed in the Associate Degree in Radio/Television Producer major requirements.

Certificate of Achievement, Radio/Television Multimedia Production (Plan Code: 3254)

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.

Program Student Learning Outcomes:

- Demonstrate collaboration skills related to personnel and timelines for an industry ready radio, television or multimedia segment.
- Critically assess the responsibilities or various creative and technical staff positions and evaluate the importance of each to the production.

REQUIRED COURSES		UNITS		
R_TV 1	Introduction to Broadcasting	3		
R_TV 8	Introduction to Media Production	3		
R_TV 13	Television Production	3		
R_TV 270WE	Work Experience-Radio, TV	3		
Subtotal Units		12		
REQUIRED COURS	ES FOR SPECIALITY			
ART 41	Introduction to Computer Graphics	3		
Subtotal Units		3		
IN ADDITION, com	plete TEN (10) units from the following:			
ART 43	Beginning Website Design	3		
PHOT 43	Photoshop and Digital Image Management	3		
R_TV 2	Intro to Careers in Radio & Television	2		
R_TV 4	Writing and Production Planning	3		
R_TV 14	Electronic Field Production	3		
R_TV 21	Radio Production	3		
R_TV 216	Non-Linear Video & Film Editing	2.5		
Other courses for	area of specialization may be approved			
by the Performing	by the Performing Arts department chair.			
Subtotal Units		10		
TOTAL UNITS		25		

RADIO/TELEVISION SPORTS BROADCASTING

Associate in Arts (A.A.) Degree, Radio/Television Sports Broadcasting (Plan Code: 1249)

The Radio/Television Sports Broadcasting Associate in Arts degree is designed to teach the fundamentals of knowledge and skills needed for today's sports broadcasting technicians and other production jobs. The degree is designed to successfully prepare students for employment with entry and mid-level sports broadcasting production companies, local stations, cable and broadcast networks, and streaming companies dealing in this genre. Potential careers students may enter: Studio Camera Operator, Handheld Camera Operator, Camera Assistant, Audio Mixer, Audio Assistant, Slo-Motion Replay Operator, Technical Director, Floor Director, Director, Producer, Assistant Producer, Video Operator, and Computer Graphics Operator. It encompasses sports broadcasting essentials such as camera operation, video switching, slo-motion replay, audio mixing, video operation, computer graphics production, and on-air announcing. This AA involves the preparation of students for one or more baccalaureate majors. Baccalaureate majors or related majors include Sports

Broadcasting, Television Production, and Digital Media Production. These courses will meet the lower division requirements of a major baccalaureate institutions; private colleges and universities, as well as UC and CSU Systems.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate knowledge of theory and skillsets related to Sports Broadcasting.

REQUIRED COURSES		UNITS
R_TV 1	Introduction to Broadcasting	3
R_TV 8	Introduction to Media Production	3
OR		
R_TV 13	Television Production	3
R_TV 14	Electronic Field Production	3
R_TV 15	Sports Production	3
R_TV 21	Radio Production	3
R_TV 270WE	Work ExpRadio, TV, Film, Digital Media	1-4
Subtotal Units		16-19

IN ADDITION, complete FIVE to SIX (5-6) units from the following, which have not already been taken as a required course:

R_TV 8	Introduction to Media Production	3
OR		
R_TV 13	Television Production	3
R_TV 36	Broadcast News Production	2.5
R_TV 40	On-Camera Performance	2.5
R_TV 60	Pro Tools (digital Audio Recording/edit)	3
Subtotal Units		5-6
TOTAL UNITS		21-25

Certificate of Achievement, Radio/Television Sports Broadcasting (Plan Code: 3249)

The Radio/Television Sports Broadcasting Certificate of Achievement is designed to teach the fundamentals of knowledge and skills needed for today's sports broadcasting technicians and other production jobs. This certificate is designed to successfully prepare students for employment with entry and mid-level sports broadcasting production companies, local stations, cable and broadcast networks, and streaming companies dealing in this genre. It encompasses sports broadcasting essentials such as camera operation, video switching, slo-motion replay, audio mixing, video operation, computer graphics production, and on-air announcing. Potential careers students may enter: Studio Camera Operator, Handheld Camera Operator, Camera Assistant, Audio Mixer, Audio Assistant, Slo-Motion Replay Operator, Technical Director, Floor Director, Director, Producer, Assistant Producer, Video Operator, and Computer Graphics Operator.

Program Student Learning Outcomes:

• Demonstrate knowledge of theory and skillsets related to Sports Broadcasting.

REQUIRED COURSES		UNITS
R_TV 1	Introduction to Broadcasting	3
R_TV 8	Introduction to Media Production	3
OR		
R_TV 13	Television Production	3
R_TV 14	Electronic Field Production	3

R_TV 15	Sports Production	3
R_TV 21	Radio Production	3
R_TV 270WE	Work ExpRadio, TV, Film, Digital Media	1-4
Subtotal Units		16-19
IN ADDITION, comp	plete FIVE to SIX (5-6) units from the following, which	have not
already been taken	as a required course:	
R_TV 8	Introduction to Media Production	3
OR		
R_TV 13	Television Production	3
R_TV 36	Broadcast News Production	2.5
R_TV 40	On-Camera Performance	2.5
R_TV 60	Pro Tools (digital Audio Recording/edit)	3
Subtotal Units		5-6
TOTAL UNITS		21-25

READING

Certificate of Competency, Adult Literacy (Plan Code: 4616)

This program equips students with essential literacy skills and strategies with an emphasis on reading, writing, listening, and speaking so that students are able to comprehend, analyze and respond to a variety of text. Upon completing the program, students can earn a Certificate of Competency.

Program Student Learning Outcomes:

• Identify and analyze key ideas and details in reading and writing with both literary and information texts.

REQUIRED COURSES		HOURS
READ 680	Reading Foundations	36
READ 681	Reading Essentials	54
TOTAL HOURS		90

Certificate of Completion, Reading in the Health Sciences (Plan Code: 4615)

The Certificate of Completion in Reading in the Health Sciences will provide students with an opportunity to prepare for success in health science programs. Students will be supported by a reading instructor and develop critical reading skills to understand and apply the concepts presented in health science textbooks. Students will also learn how to monitor and clarify their thinking while taking written and multiple-choice assessments. Upon successful completion students will be equipped to take health science courses, complete necessary assessments such as ATI TEAS, and apply study habits to their health science courses at LBCC and beyond. Students will be required to take BIO 602 and READ 602 simultaneously.

Program Student Learning Outcomes:

• Apply varied reading strategies to comprehend and retain fundamentals of health sciences related to anatomy and physiology.

REQUIRED COURS	SES	HOURS
BIO 602	Introduction to Health Career Sciences	36
READ 602	Reading for Health Career Sciences	27
TOTAL HOURS		63

SIGN LANGUAGE

See American Sign Language and Deaf Studies

SOCIAL JUSTICE STUDIES

Associate in Arts in Social Justice Studies for Transfer Degree (A.A.-T) (Plan Code: 5020 B/C)

The Associate in Arts in Social Justice Studies for Transfer (A.A.-T) will provide students with a deep interdisciplinary understanding of the concepts, theories, and methods related to social injustices based on social class, gender, sexuality, race, culture, ethnicity, religion, disability, language, and other statuses in order to create a more equitable society. The A.A.-T in Social Justice Studies is designed to prepare students to transfer to the California State University (CSU) system and they will receive preferential transfer status for the Social Justice Studies major or a related discipline.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze the causes and consequences of social inequality, oppression, and social justice movements through social science perspectives.

REQUIRED CORE COURSES Complete NINE (9) units from the following:		
SOCIO 11/11H PHIL 10 OR	Race & Ethnic Relations in the U.S./Honors Introduction to Feminist Philosophy	3 3
PHIL 1 OR	Philosophy of LGBTQIA+ Studies	3
SOCIO 17 SOCIO 13 Subtotal Units	Introduction to Sociology of Gender Sociology of Latinos	3 3 9

IN ADDITION, complete THREE (3) courses from at least two of the following areas. *Only, one course from Area 4 may be used.*

LIST A

AREA 1:	History or	Government
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HIST 8A/8AH	History of the Americas/Honors	3
HIST 8B/8BH	History of the Americas (Modern Era)/Honors	3
HIST 25	History of American Woman	3
HIST 27A	African American History to 1877	3
HIST 27B	African American History 1877 to Present	3
HIST 33	Introduction to Chicana/o History	3

AREA 2: Arts and Humanities			
MUSIC 32	History of Jazz	3	
PHIL 10	Introduction to Feminist Philosophy	3	
AREA 3: Social Scie	ence		
COMM 25	Elements of Intercultural Communication	3	
AREA 4: Quantitat	ive Reasoning and Research Methods		
MATH 21B	Statistics Pathway B	5	
OR	_		
STAT 1/1H	Elementary Statistics/Honors	4	
OR			
PSYCH 2	Research Methods for Psychology	4	
Subtotal Units		9-11	
TOTAL UNITS		18-20	

SOCIOLOGY

Sociology coursework introduces students to modern social problems, sociology of race and ethnicity, the social experience of Latinos, and issues of marriage and family life.

Associate in Arts in Sociology for Transfer Degree (A.A.-T) (Plan Code: 5001B/C)

The Associate in Arts in Sociology for Transfer degree is designed to prepare students with a general education in the principles, concepts and methodologies of Sociology. A variety of Sociology courses are offered to familiarize students with diverse yet interrelated Sociology sub-fields. The Associate in Arts in Sociology for Transfer degree will prepare students for career advancement and will facilitate transfer in a related major if desired.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Apply sociological imagination and sociological theories to contemporary analysis of public issues.

REQUIRED CORE COURSES		UNITS
SOCIO 1/1H	Introduction to Sociology/Honors	3
SOCIO 2	Modern Social Problems	3
STAT 1/1H	Elementary Statistics/Honors	4
Subtotal Units		10
IN ADDITION, con LIST A SOCIO 40 SOCIO 11/11H SOCIO 17 PSYCH 11 Subtotal Units	nplete TWO (2) courses from LIST A: Sociology of the Family Race & Ethnic Relations in the U.S./Honors Introduction to Sociology of Gender Social Psychology	3 3 3 3 6

IN ADDITION, co	omplete ONE (1) course from LIST B:	
LIST B		
Any course not	already used above	3
PSYCH 1/1H	Introduction to Psychology/Honors	3
ANTHR 2/2H	Cultural Anthropology/Honors	3
GEOG 2	Elements of Cultural Geography	3
Subtotal Units		3
TOTAL UNITS		19

TEAS PREPARATION

Certificate of Competency, TEAS Preparation (Plan Code: 4214)

The Test of Essential Academic Skills (TEAS) Preparation program prepares students with the essential skills for the TEAS. Students gain knowledge and skills in the four areas of the test: Reading, Math, Science, and English Language and Usage. Students who reach competencies may advance to develop skills for the workplace and to prepare for future educational opportunities.

Program Student Learning Outcomes:

Demonstrate understanding of the science, math, reading, and/or English-language skills required for the TEAS test.

REQUIRED COURSES		HOURS
TEAS 600	TEAS Preparation: English and Reading	18
TEAS 605	TEAS Preparation: Math and Science	18
TOTAL HOURS		36

THEATRE ARTS: GENERAL AND ACTING ACADEMY

Students completing our program should be fully prepared to move on to a more advanced level in post-secondary institution or in the workforce. Students learn skills necessary for jobs in the Theatre Arts field related to acting.

Associate in Arts in Theatre Arts for Transfer Degree (A.A.-T) (Plan Code: 5017B/C)

The Theatre Arts courses offer degree preparation with exciting hands-on acting and technical theatre skills that prepare students for transfer and career options in Theatre Management, Stage Management, Box Office Management, Wardrobe, Make-up Artists, Performance, Teaching, and Apprenticeships. Students also develop important technical skills and learn vital production processes while building social skills. Students are trained to be knowledgeable of the variety of jobs, functions and production process of the theatre industry. The overall mission of this program is to aid students in developing the requisite knowledge and skills to excel upon transfer to the CSU and UC systems.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop a basic knowledge and experience of live performance synthesizing lower-division level principles and theories of the theatre art form.
- Develop a respect for theatre as a means of personal, cultural, or social expression.

REQUIRED CORE CO	OURSES units from the following:	UNITS
TART 25	Introduction to Theatre	3
TART 1	Acting 1-Introduction to Acting	3.5
	hits maximum from the following:	5.5
TART 49AD	-	2.5
OR		2.5
TART 39AD	Theatre Practicum	1
Subtotal Units		9-9.5
Subtotal Onits		9-9.5
IN ADDITION, comp	plete THREE (3) courses from LIST A:	
LIST A		
TART 2	Acting 2- Technique and Characterization	3.5
TART 42	Introduction to Stage Lighting	3
TART 55	Introduction to Stage Make-up	3
TART 40	Stagecraft	3
The (9) unit requirement for LIST A must include the REQUIRED CORE COURSE		
not already comple	ted above:	
TART 49AD	Rehearsal and Performance	2.5
TART 39AD	Theatre Practicum	1
Subtotal Units		9
TOTAL UNITS		18-18.5

Associate in Arts (A.A.) Degree, Theatre-General (Plan Code: 1271)

This degree is designed to provide students with an overall appreciation of theatre arts as well as an emphasis in acting and technical theatre. The Associate Degree will prepare students for auditions and careers in Theatre Management, Stage Management, Box Office Management, Wardrobe, Make-up Artists, Performance, Teaching, Apprenticeships, and more.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Develop a basic knowledge and experience of live performance synthesizing lower-division level principles and theories of acting, production techniques, and creativity.
- Develop a respect for theatre as a means of personal, cultural, or social expression.

REQUIRED COURSES		UNITS
TART 1	Acting-1 Introduction to Acting	3.5
TART 25	Introduction to Theatre	3
TART 39AD	Theatre Practicum	1
TART 49AD	Rehearsal and Performance	2.5
TART 50	Major Production Performance	2.5
TART 51	Theatre Forum	1
Subtotal Units		13.5
IN ADDITION, com	plete NINE (9) units from the following:	
TART 2	Acting 2- Technique & Characterization	3.5
TART 40	Stage Craft	3
TART 42	Introduction to Stage Lighting	3
Subtotal Units		9-9.5

IN ADDITION, co	omplete FOUR (4) units from the following:	
TART 1B	Acting 1-Movement	2
TART 1C	Acting 1-Voice	2
TART 1D	Acting 1-Improvisation	2
Subtotal Units		4
TOTAL UNITS		26.5-27

Associate in Arts (A.A.) Degree, Theatre-Acting Academy (Plan Code: 1272)

Upon successful completion of the following courses, the acting student will have earned an Associate in Arts degree in Theatre Arts. The acting student will not only have gained a broad knowledge of acting, movement, and voice, but also, the academic general education and opportunity for successful transfer to a university or conservatory. The intense curriculum demands self-discipline, organization and a determination to challenge one's own limits.

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs). •
- Develop a comprehensive knowledge and experience of live performance synthesizing lower-division level principles and theories of acting, production techniques, and creativity.
- Develop a respect for theatre as a means of personal, cultural, or social expression. ٠

REQUIRED COURSES		UNITS
FIRST SEMESTER		
TART 1	Acting 1-Introduction to Acting	3.5
TART 25	Introduction to Theatre	3
TART 39AD	Theatre Practicum	1
TART 49AD	Rehearsal and Performance	2.5
TART 51	Theatre Forum	1
TART 55	Stage Makeup	3
Subtotal Units		14
SECOND SEMESTE	R	
TART 1B	Acting 1-Movement	2
TART 1C	Acting 1-Voice	2
TART 1D	Acting 1-Improvisation	2
TART 2	Acting 2- Technique & Characterization	3.5
TART 39AD	Theatre Practicum	1
OR		
TART 49AD	Rehearsal and Performance	2.5
TART 51	Theatre Forum	1
Subtotal Units		11.5-13
THIRD SEMESTER		
DANCE 3	Musical Theatre Dance	2
OR		
DANCE 20	Jazz Dance 1	2
TART 2A	Acting 2-The Spoken Text	2
TART 2C	Acting 2-Movement, Mime & Mask	2
TART 3A	Acting 3-Scene Study	3.5
TART 50	Major Production Performance	2.5
Subtotal Units		12

FOURTH SEMESTER			
TART 2D	Acting 2-Movement, Mime & Mask	2	
TART 3B	Acting 3-Scene Study	3.5	
OR			
TART 4	Acting-Workshop Style	3.5	
TART 49AD	Rehearsal and Performance	2.5	
TART 50/3	Major Production Performance	2	
TART 205	Auditions for Theatre and Film	3.5	
Subtotal Units		13.5	
TOTAL UNITS		51-52.5	

Certificate of Achievement, Show Business – Commercials, Voice-Over, Film Acting (Plan Code: 3274) The Certificate of Achievement in Show Business – Commercials, Voice-Over, Film Acting will provide students a singular exposure to show business careers, i.e. acting, writing, producing, in television markets both network and cable, as well as positions in commercials, animation performance, and voice acting arenas.

Students will earn the skillsets and competencies required to earn gainful employment in the entertainment industry. These can include, but are not limited to, commercial content and structure, microphone and camera techniques, sight reading material, techniques for connecting to audiences, blocking, teleprompter reading techniques, and actor-to-actor communication.

Upon completion of the following courses the student will have a broad-based and factual knowledge of the world of "Show Business" and the specialties to pursue gainful employment.

- Demonstrate the skills to successfully audition at an acceptable industry level.
- Identify the different styles of voice acting and the studio recording techniques required to complete a successful audition.

REQUIRED COURS	ES	UNITS
TART 1	Acting 1-Introduction to Acting	3.5
TART 201	Show Business Careers - How to Start	1.5
TART 204	Marketing Yourself for Show Business	1.5
TART 205	Auditions for Theatre and Film	3.5
Subtotal Units		10
IN ADDITION, com	plete SIX (6) units from the following:	
TART 212A	Acting in Film - Beginning	1.5
TART 212B	Acting in Film - Advanced	1.5
TART 208A	Breaking into Commercials - Beginning	1.5
TART 208B	Breaking into Commercials - Advanced	1.5
TART 210A	Voice-Over Techniques - Beginning	1.5
TART 210B	Voice-Over Techniques - Advanced	1.5
Subtotal Units		6
TOTAL UNITS		16

WEB DEVELOPMENT

The Web Development program prepare students for employment in web development and web programming positions within an organization. Students will learn the skills to plan, create, and implement websites for a wide variety of businesses and organizations. Emphasis will be placed on mobile application development, responsive design and usability.

Associate in Science (A.S.) Degree, Web Development (Plan Code: 2128)

Students will learn relevant and current web technologies including HTML, CSS, JavaScript/jQuery and database concepts. Other topics include mobile web application development, responsive design, accessibility and user-centered design. This program is designed to prepare students for employment in Web Development related fields including both front-end development and back-end development. Students interested in a bachelor's degree (transfer program) should meet with a counselor to discuss how this program fully articulates with other schools.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Create websites by employing several web design tools and programming languages.
- Demonstrate and apply effective web development skills for a variety of industries and organizational situations.

UNITS

REQUIRED COURSES

	Intro to IT Concepts and Applications	4
COSA 50	Intro to IT Concepts and Applications	4
COSP 7	Programming Concepts and Methodologies	4
COSP 38	Database Concepts	4
COSW 10	Beginning Website Development	4
COSW 20	Front End Website Development	4
COSW 30	Web Development with PHP/MySQL	4
COSW 200	Introduction to JavaScript and jQuery	4
COSW 240	Intro to Content Management Systems	3
TOTAL UNITS		31

Certificate of Achievement, Web Development (Plan Code: 3128)

The certificate is designed to prepare students for beginning employment in Web Development related fields in both frontend development and back-end development. Topics include modern website development, responsive design, best practices, database-driven web applications, accessibility and user-centered design.

Program Student Learning Outcomes:

- Create websites by employing several web design tools and programming languages.
- Demonstrate and apply effective web development skills for a variety of industries and organizational situations.

REQUIRED COURSES—Complete the **31 units** of required courses as listed in the Associate Degree in Web Development major requirements.

Certificate of Accomplishment, Android App Developer (Plan Code: 4119)

Students will learn programming skills in Java or C++, Android App Development, and Database hands-on concepts.

Program Student Learning Outcomes:

- Demonstrate the ability to create, design, and implement java-based Android applications (apps) using the Android • API.
- Show the skills to create, manage, and use databases and SQL for Android applications (apps). •
- Be able to complete the full development process for Android Applications (apps). •

REQUIRED COURSES		UNITS
CS 21	Introduction to Computer Science-Java	4
OR		
CS 11	Introduction to Computer Science- C++	4
OR		
CS 31	Introduction to Computer Science-Python	4
COSP 230	Android App Development in Java	3
TOTAL UNITS		7

Certificate of Accomplishment, PHP Web Programmer (Plan Code: 4129)

Students will learn how to build robust web applications with PHP and MySQL.

Program Student Learning Outcomes:

• Design, run, and analyze new and existing SQL programs according to commonly practiced industry standards.

REQUIRED COURSES		UNITS
COSP 38	Database Concepts	4
COSW 10	Beginning Website Development	4
COSW 30	Web Development with PHP/MySQL	4
COSW 200	Introduction to JavaScript and jQuery	4
TOTAL UNITS		16

Certificate of Accomplishment, Web Developer (Plan Code: 4131)

Students will learn modern web development skills including HTML, CSS, JavaScript, and responsive design for a variety of screen sizes.

Program Student Learning Outcomes:

- Create websites by employing several web design tools and programming languages •
- Demonstrate and apply effective web development skills for a variety of industries and organizational situations.

REQUIRED COURSES

REQUIRED COURSES		UNITS
COSW 10	Beginning Website Development	4
COSW 20	Front End Website Development	4
COSW 200	Introduction to JavaScript and jQuery	4
Subtotal Units		12

IN ADDITION, co	mplete FOUR (4) units from the following:	
COSP 201	Intro to Mobile App Development	1
COSW 30	Database Programming with PHP/MySQL	3
COSW 230	Web Development Frameworks	4
COSW 240	Intro to Content Management Systems	3
Subtotal Units		4
TOTAL UNITS		16

WELDING TECHNOLOGY

The Welding Technology program provides the necessary technical skills, knowledge, and attitude to prepare students for employment and to provide advanced training in a variety of occupations in the welding and metal fabrication industry.

Associate in Science (A.S.) Degree, Welding Technology (Plan Code: 2988)

The Associate in Science degree in Welding Technology is designed to prepare students for a variety of entry-level positions in today's construction and fabrication industries. Upon completion students will have a thorough knowledge of welding safety, theory and procedures, in accordance with the American Welding Society SENSE Entry Welder program, as well as the skill to perform a variety of welding processes. Successful completion of this degree will prepare students for the following career opportunities: welder, welding inspector, welding technician/fitter, pipe fitter/welder, and metal fabricator.

Program Student Learning Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Demonstrate advanced level skills to produce quality welds in the flat, horizontal, vertical, and overhead positions using the SMAW (Shielded Metal Arc Welding) process.
- Demonstrate advanced level skills to produce quality welds in the flat, horizontal, and vertical positions using the GTAW (Gas Tungsten Arc Welding) process.

REQUIRED COUR	SES	UNITS
WELD 50	Introduction to Welding	4
WELD 212	Introduction to Shielded Metal Arc Welding	4
WELD 213	Introduction to Semi-Automatic Welding	4
WELD 214	Introduction to Gas Tungsten Arc Welding	4
MTFAB 50	Introduction to Metalworking	4
MTFAB 220C	Power Metalworking Machine Operations	4
MTFAB 260	Blueprint Reading for Metal Fabrication	3
MTFAB 270	Metallurgy	3
TOTAL UNITS		30

Certificate of Achievement, Welding Technology (Plan Code: 3988)

The Certificate of Achievement in Welding Technology is designed to prepare students for a variety of entry-level positions in today's construction and fabrication industries. Upon completion students will have a thorough knowledge of welding safety, theory and procedures, in accordance with the American Welding Society SENSE (Schools Excelling through National Skills Education) Entry Welder program, as well as the skill to perform a variety of welding processes. Successful completion of this degree will prepare students for the following career opportunities: welder, welding inspector, welding technician/fitter, pipe fitter/welder, and metal fabricator.

Program Student Learning Outcomes:

- Demonstrate advanced level skills to produce quality welds in the flat, horizontal, vertical, and overhead positions using the SMAW (Shielded Metal Arc Welding) process.
- Demonstrate advanced level skills to produce quality welds in the flat, horizontal, and vertical positions using the GTAW (Gas Tungsten Arc Welding) process.

REQUIRED COURS	ES	UNITS
WELD 50	Introduction to Welding	4
WELD 212	Introduction to Shielded Metal Arc Welding	4
WELD 213	Introduction to Semi-Automatic Welding	4
WELD 214	Introduction to Gas Tungsten Arc Welding	4
MTFAB 50	Introduction to Metalworking	4
MTFAB 220C	Power Metalworking Machine Operations	4
MTFAB 260	Blueprint Reading for Metal Fabrication	3
MTFAB 270	Metallurgy	3
TOTAL UNITS		30

Certificate of Achievement, Advanced Arc Welding (SMAW and FCAW) (Plan Code: 3981)

The Certificate of Achievement in Advanced Arc Welding will emphasize advance welding skills in the SMAW (Shielded Metal Arc Welding) and FCAW (Flux Core Arc Welding) processes. Course work includes a comprehensive study with an emphasis on application of fundamental welding techniques and safe industry practices. Potential careers that the program prepares students for include, but are not limited to, Pipe Fitters and Steamfitters, Sheet Metal Workers, as well as Structural Iron and Steel Workers.

Program Student Learning Outcomes:

• Demonstrate advanced level skills to produce quality welds in the flat, horizontal, vertical, and overhead positions using various arc welding processes.

REQUIRED COURSES		UNITS
WELD 213	Introduction to Semi-Automatic Welding	4
WELD 483	Gas Metal Arc/Flux Core Arc Welding	2
WELD 415	SMAW Flat/Horz Open Root Groove Welds	2
WELD 416	SMAW Vert & O/H Open Root Groove Welds	2
Subtotal Units		10
,	plete SIX (6) units from the following:	
WELD 221	Arc Welding Structural Certification	3
MTFAB 260	Blueprint Reading for Metal Fabrication	3
MTFAB 270	Metallurgy	3
Subtotal Units		6
TOTAL UNITS		16

Certificate of Achievement, Gas Tungsten Arc Welding (GTAW) (Plan Code: 3989)

The Certificate of Achievement in Gas Tungsten Arc Welding (GTAW) is designed for those interested in entry level welding skills to required GTAW Aluminum, low carbon, and stainless steels. Course work includes a comprehensive study with an emphasis on application of fundamental welding techniques and safe industry practices.

Program Student Learning Outcomes:

• Demonstrate advanced level skills to produce quality welds in the flat, horizontal, and vertical positions using the GTAW (Gas Tungsten Arc Welding) process.

REQUIRED COURSES		UNITS
WELD 50	Introduction to Welding	4
WELD 214	Introduction to Gas Tungsten Arc Welding	4
WELD 480	Welding (Inert Gas)	2
WELD 482	Gas Tungsten Arc Welding Basic Joints	2
WELD 481	Welding (Inert Gas)	1
MTFAB 260	Blueprint Reading for Metal Fabrication	3
TOTAL UNITS		16

Certificate of Achievement, Shielded Metal Arc Welding (SMAW) (Plan Code: 3985)

The Certificate of Achievement in Shielded Metal Arc Welding (SMAW) is designed for those interested in welding structural steel. Course work includes a comprehensive study with an emphasis on application of fundamental welding techniques and safe industry practices. Potential careers that the program prepares students for include, but are not limited to, Pipe Fitters and Steamfitters, Sheet Metal Workers, as well as Structural Iron and Steel Workers.

Program Student Learning Outcomes:

• Demonstrate advanced level skills to produce quality welds in the flat, horizontal, vertical, and overhead positions using SMAW (Shielded Metal Arc Welding) process.

REQUIRED COUR	SES	UNITS
WELD 212	Introduction to Shielded Metal Arc Welding	4
WELD 221	Arc Welding Structural Certification	3
MTFAB 260	Blueprint Reading for Metal Fabrication	3
WELD 410	Welding (ARC)	2
WELD 413	SMAW Flat/Horz Groove Welds with Backing	2
WELD 414	SMAW Vert and OV/HD Grv Welds w/ Backing	2
TOTAL UNITS		16

Certificate of Completion, Basic Arc Welding (PC: 4983)

The Certificate of Completion in Basic Arc Welding is designed for those interested in learning basic Arc Welding. Course work includes an entry level study with an emphasis on application of fundamental welding techniques and safe industry practices. This course prepares the student for an entry level position as a Shielded Metal Arc Welder. The student will be required to provide all PPE safety gear (personal protective gear) required to safely perform SMAW welds in the lab.

Program Student Learning Outcomes:

• Demonstrate entry level skills to produce quality welds in the flat and horizontal positions using SMAW (Shielded Metal Arc Welding) process.

REQUIRED COURSES		HOURS
WELD 600	Welding (General)	72
WELD 611	Welding (ARC)	54
TOTAL HOURS		126

Certificate of Completion, Basic Gas Tungsten Arc Welding (Plan Code: 4984)

The Certificate of Completion in Basic Gas Tungsten Arc Welding is designed for those interested in learning basic GTAW Welding. Course work includes an entry level study with an emphasis on application of fundamental welding techniques and safe industry practices. This course prepares the student for an entry level position as a GTAW Welder. The student will be required to provide all PPE safety gear (personal protective gear) required to safely perform GTAW welds in the lab.

Program Student Learning Outcomes:

• Demonstrate entry level skills to produce quality welds in the flat, horizontal, and vertical positions using the GTAW (Gas Tungsten Arc Welding) process.

REQUIRED COURSES		HOURS
WELD 600	Welding (General)	72
WELD 681	Welding (Inert Gas)	54
TOTAL HOURS		126

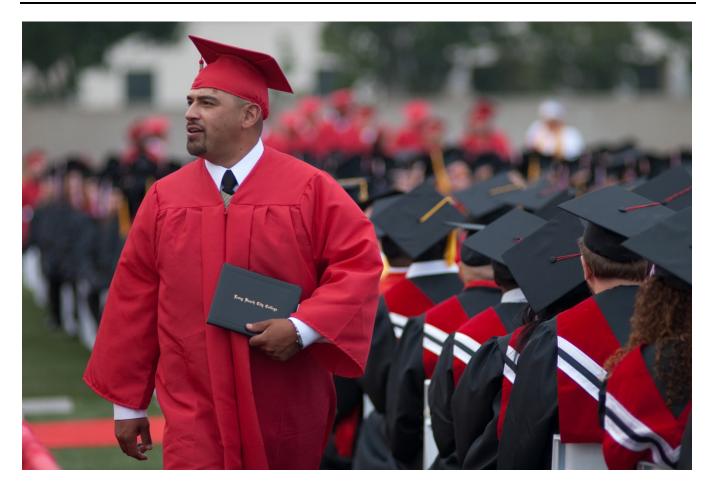
Certificate of Completion, Basic Oxy-Acetylene Welding (Plan Code: 4985)

The Certificate of Completion in Basic Oxy-Acetylene Welding is designed for those interested in learning basic Oxy-Acetylene Welding. Course work includes an entry level study with an emphasis on application of fundamental welding techniques and safe industry practices. This course prepares the student for an entry level position as a Oxy-Acetylene Welder. The student be required to provide all PPE safety gear (personal protective gear) required to safely perform Oxy-Acetylene welds in the lab.

Program Student Learning Outcomes:

• Demonstrate entry level skills to produce quality welds in the flat and horizontal positions using the Oxy-Acetylene process.

REQUIRED COURSES		HOURS
WELD 600	Welding (General)	72
WELD 661	Oxygen Acetylene Welding	54
TOTAL HOURS		126



ACCOUNTING (ACCTG)

ACCTG 1A (C-ID ACCT 110) 5.0 units Financial Accounting 90 hours lecture Recommended Preparation: ACCTG 200 or one year of bookkeeping Grading: letter grade

This course is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls and ethics.

Transferable to UC or CSU; see counselor for limitations

ACCTG 1B (C-ID ACCT 120) Managerial Accounting 90 hours lecture Prerequisite: ACCTG 1A Grading: letter grade 5.0 units

This course is the study of how managers use accounting information in decision-making, planning, directing operations, and controlling. Focuses on cost terms and concepts, cost behavior, cost structure and cost-volumeprofit analysis. Includes issues relating to cost systems, cost control, profit planning and performance analysis in manufacturing and service environments. This course also provides students with techniques used by management in evaluating daily operations and related costs of a business in planning future operations, making decisions, and developing overall business strategies. Transferable to UC or CSU; see counselor for limitations

ACCTG 200 Introduction to Accounting 54 hours lecture Grading: letter grade

Formerly ACCTG 200A. This course provides a general overview and understanding of the accounting principles for a business enterprise, with a focus on those business activities for both service and merchandising businesses, using a double entry system and the accrual method for recording financial transactions. The course will introduce students to key accounting terms, the accounting equation and related impact of business accounting transactions, the integration of the business transactions into the financial statement framework, along with an understanding of cash activities, receivables, inventories, fixed assets, liabilities, shareholders' equity, revenues and expenses. The course will cover the primary financial statements utilized by a business, including financial statement analysis. This course will give students a fundamental foundation of accounting and its importance to a business, a general understanding of the activities of a business and the financial reporting of a business.

ACCTG 205	3.0	units
Fundamentals of Tax		
54 hours lecture		
Grading: letter grade		

Students will learn to prepare federal 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 36 hours lecture, 18 hours laboratory Prerequisite: ACCTG 1A or ACCTG 200 Grading: letter grade

This course provides students with experience using a commercial general ledger accounting program.

ACCTG 229

3.0 units

Spreadsheet Accounting 54 hours lecture, 18 hours laboratory Prerequisite: ACCTG 1A Recommended Preparation: Working knowledge of Microsoft Excel or COSA 15 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	2.0 units
Quickbooks Accounting	
36 hours lecture	
Recommended Preparation: General fam	niliarity 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 handson exposure to the major features of the Quickbooks accounting software accompanied by instruction in the accounting concepts being employed.

ADMINISTRATION OF JUSTICE (ADJUS)

ADJUS 2 (C-ID AJ 110) 3.0 units Introduction Administration of Justice 54 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. Transferable to UC or CSU; see counselor for limitations

ADJUS 3 (C-ID AJ 122) Introduction to Criminal Procedures 54 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. Transferable to CSU

Transferable to

ADJUS 4 (C-ID AJ 120) Criminal Law 54 hours lecture Grading: letter grade

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

Transferable to UC or CSU; see counselor for limitations

ADJUS 5	3.0 units
Community and Human Relations	
54 hours lecture	
Grading: letter grade	

The 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. Styles of policing and their impact upon communities and citizen support and cooperation are also discussed in detail.

Transferable to UC or CSU; see counselor for limitations

3.0 units

ADJUS 6 (C-ID AJ 124) Introduction to Evidence 54 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. Transferable to CSU ADJUS 8 (C-ID AJ 140) Introduction to Investigation 54 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. Transferable to CSU

ADJUS 10 Writing for Criminal Justice 54 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. Transferable to CSU

ADJUS 14 Juvenile Law and Procedures 54 hours lecture Grading: letter grade 3.0 units

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. Transferable to CSU

ADJUS 16 Vice, Narcotics and Organized Crime 54 hours lecture Grading: letter grade 3.0 units

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

3.0 units

and their political influence on our legal system, are also discussed. Transferable to CSU

3.0 units

3.0 units

ADJUS 17 Computer Use in Criminal Justice 54 hours lecture 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.

Transferable to CSU

ADJUS 18 Police Field Operations 54 hours lecture	3.0 units		
		Grading: letter grade	

Through the use of classroom lecture and scenario training this course covers policing in America. Specific areas to include, patrol, traffic, preliminary investigations, interviewing and interrogation, search and seizure, civil and domestic disturbances and requests for community service. Most importantly, it focuses on the relationship between citizens in the community and the police who serve them. Transferable to CSU

ADJUS 19 Fingerprint Classif & Identification 54 hours lecture Grading: letter grade

This interactive course provides an introduction to the science of fingerprint pattern recognition, comparison and identification. Focus is on fingerprints of record, with an emphasis on the history and application of science to fingerprints and their role in the forensic domain. Students participate in recording, developing, and comparing fingerprints, and are exposed to crime scene type latent prints and learn basic development techniques. Field trips to local crime labs to observe forensic science/fingerprint unit organization and operation may be required. Transferable to CSU

ADJUS 20 (C-ID AJ 200) Introduction to Corrections 54 hours lecture Grading: letter grade 3.0 units

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. Transferable to CSU

ADJUS 40 Street Gangs and Law Enforcement 54 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.

Transferable to CSU

ADJUS 45 Drug Abuse and Law Enforcement 54 hours lecture Grading: letter grade 3.0 units

3.0 units

3.0 units

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. Transferable to CSU

ADJUS 253 Understanding Domestic Violence 54 hours lecture Grading: letter grade

The course offers insights into the causes, behaviors and problems associated with domestic violence. It describes and investigates the reasons behind violent behavior and the toll taken on victims. Laws relating to domestic abuse, and mandated reporter's responsibilities, alternative recommendations to abusive relationships and various sources for assistance are covered.

3.0 units

ADJUS 255 Introduction to Forensics 54 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 for Administration of Justice majors, and others with a specific interest in forensic methods.

ADJUS 269 3.0 units Pre-Employment Preparation for Law Enforcement 54 hours lecture

Grading: letter grade

Students contemplating a future within the Criminal Justice System will receive practical and realistic opportunities to gain insight and understanding into the initial preparation, testing, evaluation, academy curriculum content and processing for entry level positions.

ADJUS 600 0.0 unit Powers of Arrest/Weapons of Destruction 9 hours lecture

Grading: LBCC non-graded course

This course familiarizes and instructs the individual on the training topics delineated in Business and Professions Code section 7583.7, including legal aspects, techniques, liability, and company requirements relating to the arrest of an individual. The training utilizes the Department of Consumer Affairs' Power to Arrest Training Manual. In addition the students learn the subject matter and observation skills required to identify and report precursor activities to a terrorist event, react appropriately, report the occurrence of a terrorist event, and remain safe while helping control the scene after a terrorist event. The training utilizes the Department of Consumer Affairs' Weapons of Mass Destruction & Terrorism Awareness for Security Professionals course consisting of a Digital Video Disk (DVD), Student Workbook, and Facilitator Manual.

0.0 unit

ADJUS 601 Public Relations & Liability 9 hours lecture Grading: LBCC non-graded course This course covers the required learning domains outlined by the CA Bureau of Security and Investigative Services for newly licensed security officers concerning the importance of public relations with both community and customer. The course provides important information concerning discrimination, diversity, substance abuse, and the mentally ill. The course includes communication skills and de-escalation techniques for crisis intervention. The course also provides the required learning domains surrounding security officers and liability in the course of their duties.

ADJUS 602 0.0 unit Communication/Observation/Documentation 9 hours lecture

Grading: LBCC non-graded course

This course covers the required learning domains outlined by the CA Bureau of Security and Investigative Services in section 7583.6(b) of the Business and Professions Code in reference to communication, observation and documentation.

ADJUS 603 Search, Seizure, Scene Preservation 9 hours lecture Grading: LBCC non-graded course

0.0 unit

0.0 unit

This course covers the required learning domains outlined by the CA Bureau of Security and Investigative Services in reference to the legal powers of a security/proprietary officer to perform a search and/or seizure. The course also covers the methods for, and importance of, preserving the incident scene.

ADJUS 604 Officer Safety & First Aid CPR 9 hours lecture Grading: LBCC non-graded course

This course covers the required learning domains outlined by the CA Bureau of Security and Investigative Services in reference to the knowledge and skills required to identify potentially hazardous situations including environmental, chemical, biological and situational dangers. The student also receives instruction in basic first aid and CPR.

ADJUS 605 0.0 unit Conflict Management & Crowd Control 9 hours lecture Grading: LBCC non-graded course

2.0 units

2.0 units

This course provides the student with the knowledge and skills necessary for conflict management in a private security setting. The course provides information on verbal diffusion and negotiations. The student also learns the various tactics and tools employed in crowd control situations.

ADVANCED MANUFACTURING TECH (ADMT)

ADMT 50 Advanced Manufacturing, Introduction 36 hours lecture, 72 hours laboratory Grading: letter grade or pass/no pass

3.0 units

3.0 units

Formerly MACHT 50. Introduction to the basic principles and operation of machine tools with a focus on bench operations, drilling, mills, lathes, and grinding machines, with a focus on computer automated machine tools. Standard industry practices and tool set-ups will be emphasized and applied. Transferable to CSU

ADMT 200 Advanced Manufacturing Math 54 hours lecture

Grading: letter grade or pass/no pass

Formerly MACHT 201. This course covers the study of machine shop problems involving the solution of formulas related to screw threads, feeds and speeds, spur gears, simple and angular indexing. Geometric figures, angles, triangles, circles, arcs, trigonometric functions, compound angles and oblique triangles will also be introduced.

ADMT 251

2.0 units

Advanced Manufacturing, CNC Mills/Lathes 18 hours lecture, 54 hours laboratory Prerequisite: ADMT 50 Grading: letter grade or pass/no pass

Formerly MACHT 203. This course covers Computer Aided Manufacturing (CAM), emphasizing interactive graphics programming for Computer Numerical Control (CNC) machines. Concepts studied will include interactive geometry construction, tool motion, machine functions, repetitive programming, graphic output and graphic editing. Students will process programs using interactive graphics computer systems.

ADMT 252

Advanced Manufacturing, Sheet Metal CNC 18 hours lecture, 54 hours laboratory Grading: letter grade

This course covers the study of Computer Numerical Control (CNC) programming with emphasis on programming to support CNC machinery supporting the sheet metal industry. These machines include punch press, brakes, laser cutters and plasma cutters and pipe benders.

ADMT 253 Advanced Manufacturing, Capstone 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly MACHT 204. This course covers Computer Aided Manufacturing (CAM), emphasizing interactive graphics programming for Computer Numerical Control (CNC) machines. Students will utilize various techniques of creating geometry on multiple work planes, three dimensional (3- D) surface tool path creation and manipulation, implementing 4th and 5th axis machining, generating surface to surface intersections, creating blends between surfaces, creating roughing operations for 3D, and CAD data conversion for the purpose of 3D machining.

NURSING, ASSOCIATE DEGREE NURSING- RN (ADN)

ADN 11A 2.5 units Introduction to Nursing 45 hours lecture Prerequisite: ANAT 1, PHYSI 1, BIO 2, and ENGL 1 Corequisite: ADN 11AL, PSYCH 1 or SOCIO 1 (may be taken as a prerequisite) Grading: letter grade

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. Transferable to CSU

COURSES

2.5 units

ADN 11AL	1.5 units
Introduction to Nursing Lab	
81 hours laboratory	
Prerequisite: ANAT 1, PHYSI 1, BIO 2, ENGL	1, and
compliance with all clinical agency health a	nd safety
policies is required the first day of the course	se
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. Transferable to CSU

ADN 11B 2.5 units **Health Deviations 1** 45 hours lecture Prerequisite: ADN 11A and ADN 11AL Corequisite: ADN 11BL Grading: letter grade

This course is an introduction to deviations in health of the adult client. It emphasizes the health deviation selfcare 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. Transferable to CSU

ADN 11BL 1.5 units **Health Deviations 1 Lab** 81 hours laboratory Prerequisite: ADN 11A and ADN 11AL, and 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. Transferable to CSU

ADN 12A Health Deviations 2 45 hours lecture Prerequisite: ADN 11B and ADN 11BL Corequisite: ADN 12AL Grading: letter grade

This course is the second medical-surgical nursing course in the nursing program. The effects and results of specific pathological conditions and treatment modalities upon the perioperative patient will be studied. Emphasis is placed on the nursing care needs of the middle adulthood. Students must be enrolled in this course before attempting to enroll in ADN 12AL. Transferable to CSU

ADN 12AL

Health Deviations 2: Lab 81 hours laboratory

1.5 units

Prerequisite: ADN 11B and 11BL, and compliance with all clinical agency health and safety policies is required the first day of the course Corequisite: ADN 12A 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. Skills include intravenous therapy, medical and surgical aseptic practices and selected physical assessments. Students will provide nursing care for a two patient perioperative assignment in the acute care setting. Experiences off the unit may include a day in the operating room or outpatient services.

Transferable to CSU

ADN 12B Health Deviations 3 45 hours lecture Prerequisite: ADN 12A and ADN 12AL Grading: letter grade

2.5 units

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 role of the registered nurse. Additionally, the effects of specific pathological health deviations and medical treatment modalities for the

3.0 units

2.5 units

3.0 units

medical patient are studied with attention to teaching and learning. Students must be enrolled in this course before attempting to enroll in ADN 12BL. Students will be required to attend 1 hour of the supplemental learning activity in a designated Success Center. Transferable to CSU

ADN 12BL **Health Deviations 3: Lab**

1.5 units

1.0 unit

2.5 units

81 hours laboratory

Prerequisite: ADN 12A and 12AL, and compliance with all clinical agency health and safety policies is required the first day of the course Corequisite: ADN 12B 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. Transferable to CSU

ADN 20A **Transition to Second Level Nursing** 18 hours lecture

Prerequisite: ANAT 1, PHYSI 1, BIO 2, ENGL 105 or ENGL 1 or ESL 34X and CPR Certification for health care providers Corequisite: ADN 202 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. Transferable to CSU

ADN 21B **Mental Health** 45 hours lecture Prerequisite: ADN 12B and ADN 12BL or ADN 20A

Corequisite: ADN 21BL Grading: letter grade

This course is a study of Orem's Self-Care Theory and the nursing process as they relate to mental health and/or

mental health deviations in the client with acute/chronic debilitating diseases. Emphasis is placed on therapeutic communication skills. Transferable to CSU

ADN 21BL **Mental Health Lab** 162 hours laboratory

Prerequisite: ADN 12B and ADN 12BL or ADN 20A, and 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 integrating communication skills into interactions with patients in both the psychiatric and medical-surgical acute care settings. Skill activities include intravenous venipuncture, group participation and various communication techniques. Transferable to CSU

ADN 22B

Advanced Nursing II Role Transition 45 hours lecture

Prerequisite: ADN 45A and ADN 45AL Corequisite: ADN 22BL Grading: letter grade

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. Transferable to CSU

ADN 22BL Adv. Nursing II-Role Transition Lab 162 hours laboratory Prerequisite: ADN 45A and ADN 45AL Corequisite: ADN 22B Grading: letter grade

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

1.5 units

setting. The major emphasis is on the role transition from student to graduate novice nurse. Transferable to CSU

ADN 31A1.0 unitTrends in Nursing A18 hours lectureCorequisite: ADN 21A, ADN 21AL, ADN 21B and ADN21BLGrading: letter grade or pass/no pass

This course is designed for students to study the trends and issues which affect 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. Transferable to CSU

ADN 31B 1.0 unit Trends in Nursing B 18 hours lecture Prerequisite: ADN 31A Corequisite: ADN 45A and 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. Transferable to CSU

1.5 units

ADN 35A Maternal/Newborn Nursing 27 hours lecture

Prerequisite: ADN 12B and ADN 12BL or ADN 20A and CPR certification for health care providers Grading: letter grade

Formerly ADN 235A. This course emphasizes Orem's Self-Care 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. Transferable to CSU ADN 35AL Maternal/Newborn Nursing Lab 81 hours laboratory Prerequisite: ADN 20A and CPR certification Corequisite: ADN 35A Grading: letter grade

Formerly ADN 235AL. This course applies the course content in a live nursing situation. It includes oncampus/clinical lab practice and testing of required skills in perinatal units, newborn nursery, GYN, and community setting. Transferable to CSU

ADN 35B1.5 unitsPediatric Nursing27 hours lecturePrerequisite: ADN 12B and ADN 12BL or ADN 20A andCPR certification for health care providersGrading: letter grade

Formerly ADN 235B. 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.

Transferable to CSU

ADN 35BL 1.5 units Pediatric Nursing Lab 81 hours laboratory Prerequisite: ADN 20A and CPR Certification Corequisite: ADN 35B Grading: letter grade

Formerly ADN 235BL. 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.

Transferable to CSU

ADN 45A

1.5 - 2.5 units

Advanced Medical/Surgical Nursing 45 hours lecture

Prerequisite: ADN 35A and ADN 35AL and ADN 35B and ADN 35BL and ADN 21B and ADN 21BL and CPR certification for health care providers Grading: letter grade

Formerly ADN 245A. This course emphasizes Orem's Self-Care Theory, in particular health deviations as it pertains

to the nursing care of acutely ill and critically ill adults. The content involves the study of critical illness in the adult patient. This course unit value can range from 1.5 to 2.5.

Transferable to CSU

ADN 45AL 1.5 - 3.0 units Advanced Medical/Surgical Nursing Lab 162 hours laboratory

Prerequisite: ADN 35A and ADN 35AL and ADN 35B and ADN 35BL and ADN 21B and ADN 21BL and a CPR certification for health care providers Corequisite: ADN 45A Grading: letter grade

Formerly ADN 245AL. 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 unit value can range from 1.5 to 3. Transferable to CSU

ADN 200	0.5 unit
Nursing Skills Refresher 27 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 Associate Degree Nursing program, students approved for re-entry, individuals who are currently licensed as LVNs and foreign graduate nurses.

0.5 unit

ADN 201 Nursing Skills Adjunct Laboratory 27 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. ADN 202 Nursing Skills Adjunct Laboratory 27 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 201.

ADN 203 Nursing Skills Adjunct Laboratory 27 hours laboratory Grading: pass/no pass 0.5 unit

0.5 unit

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 202. 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.

ADN 204 Nursing Skills Adjunct Laboratory 27 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. 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.

ADN 212 Clinical Practicum I 108 hours laboratory

2.0 units

0.5 unit

Prerequisite: ADN 11A and ADN 11B, and 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

Formerly ADN 212AD. This course will provide student nurse experiences in approved health care agencies using a Board of Registered Nursing approved curriculum. The purpose of this course is to apply theory and principles taught in the classroom to the clinical setting.

ADN 221 2.0 units Clinical Practicum II 108 hours laboratory Prerequisite: ADN 12A and ADN 12B, and 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

Formerly ADN 221AD. This course will provide student nurse experiences in approved health care agencies using a Board of Registered Nursing approved curriculum. The purpose of this course is to apply theory and principles taught in the classroom to the clinical setting.

ADN 222 2.0 units Clinical Practicum III 108 hours laboratory Prerequisite: ADN 21A and ADN 21B, and 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

Formerly ADN 222AD. This course will provide student nurse experiences in approved health care agencies using a Board of Registered Nursing approved curriculum. The purpose of this course is to apply theory and principles taught in the classroom to the clinical setting.

ADN 2253.0 unitsPharmacology54 hours lectureRecommended Preparation: BIO 60 or ANAT 1 and PHYSI1 and READ 82 or completion of Reading proficiency

This is an introductory course into the study and management of commonly prescribed drugs. Drug classifications and prototypes are discussed rather than individual medication. The principles of medication administration including common side-effects and nursing responsibilities is included. Dosage calculation is not included. This course is not open for credit to students who have completed VN 225. ADN 225 and VN225 are equivalent courses.

2.5 units

ADN 430 NCLEX-RN Preparation Course 45 hours lecture

Grading: letter grade

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 Health Care Learning Center 270 hours laboratory Corequisite: Current enrollme

0.0 unit

0.0 unit

270 hours laboratory Corequisite: Current enrollment in a health care program course Grading: LBCC non-graded course

This is a noncredit course designed for enhanced assistance for skill attainment in health care programs.

ADN 610 Nursing Skills Refresher Laboratory 13 hours 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.

ADN 810 Preparation for Nursing 9 hours lecture Grading: pass/no pass 0.5 unit

This course is designed for a pre-nursing student. The course supports the pre-nursing student in: the development of effective study habits, test-taking strategies, nursing terms, abbreviations and symbols used in health care, and knowledge of the nursing profession.

ALLIED HEALTH (AH)

AH 60Medical Terminology54 hours lectureGrading: letter grade

3.0 units

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. In order to assist students with the challenges of the course content,

0.5 unit

students are required to complete 3 hours of Supplemental Learning Assistance activities in a Multidisciplinary Success Center over the course of the semester. Transferable to CSU

AH 61 2.0 units **Integration of Patient Care** 18 hours lecture, 54 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. Transferable to CSU

AH 220 2.0 units Phlebotomy 27 hours lecture, 27 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.

1.0 unit

AH 223 **Phlebotomy Practicum** 54 hours laboratory Prerequisite: AH 220 Grading: pass/no pass

Formerly AH 220AD. 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.

AH 225 **Basic Arrhythmia Recognition** 9 hours lecture Prerequisite: ADN 11B and ADN 11BL or Licensed RN, VN 255 or VN 265 or Licensed VN, EMT 251 and EMT 251L or Licensed EMT

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.

AH 276 **Health Care Law** 18 hours lecture Grading: letter grade 1.0 unit

1.0 unit

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 **Health Care CPR and Vital Signs** 18 hours lecture, 9 hours laboratory Grading: letter grade

This course is designed for students entering a healthcare field. Topics covered include Health Care provider CPR, including Automatic Defibulator training, and assessment of vital signs and their significance in patient care.

ANATOMY (ANAT)

ANAT 1 (C-ID BIOL 110B) 4.0 units Human Anatomy 54 hours lecture, 54 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

2.0 units

education, physical therapy, and allied health majors. Dissection of a cat is required. Transferable to UC or CSU; see counselor for limitations

ANAT 41 5.0 units Anatomy & Physiology

72 hours lecture, 54 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.

Transferable to UC or CSU; see counselor for limitations

ANTHROPOLOGY (ANTHR)

ANTHR 1 (C-ID ANTH 110) 3.0 units Physical Anthropology 54 hours lecture Grading: letter grade or pass/no pass

This course introduces the concepts, methods of inquiry, and theory of biological evolution and their application to the human species. Issues and topics will include the principles of genetics and evolution, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The philosophy of science and the scientific method serve as foundations to the course. Transferable to UC or CSU; see counselor for limitations

ANTHR 1H (C-ID ANTH 110) 3.0 units Honors Physical Anthropology 54 hours lecture

Prerequisite: Qualification for the Honors Program Grading: letter grade or pass/no pass

This course introduces the concepts, methods of inquiry, and theory of biological evolution and their application to the human species. Issues and topics will include the principles of genetics and evolution, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The philosophy of science and the scientific method serve as foundations to the course. Transferable to UC or CSU; see counselor for limitations ANTHR 1L Physical Anthropology Laboratory 18 hours lecture, 54 hours laboratory Corequisite: ANTHR 1 or ANTHR 1H Grading: letter grade or pass/no pass

This laboratory course is offered as a supplement to Physical Anthropology. Laboratory exercises emphasize the scientific method, and are designed to explore cellular structure, genetics, the evolutionary process, human variation, human and non-human primate anatomy and behavior, the primate/hominin fossil record, and analysis of human skeletal material. Transferable to UC or CSU; see counselor for limitations

ANTHR 2 (C-ID ANTH 120)	3.0 units
Cultural Anthropology	
54 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. Transferable to UC or CSU; see counselor for limitations

ANTHR 2H (C-ID ANTH 120) Honors Cultural Anthropology 54 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. Transferable to UC or CSU; see counselor for limitations

ANTHR 3 (C-ID ANTH 150)	3.0 units
Intro to Archaeology	
54 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.

Transferable to UC or CSU; see counselor for limitations

ANTHR 3H (C-ID ANTH 150) 3.0 units Honors Intro to Archaeology 54 hours lecture

Prerequisite: Qualification for the Honors Program Grading: letter grade or pass/no pass

This course is an honors 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. Transferable to UC or CSU; see counselor for limitations

ANTHR 4 3.0 units Linguistic Anthropology 54 hours lecture Recommended Preparation: ENGL 1 Grading: letter grade

This introductory course serves as a foundation for understanding the intrinsic connection of language and culture using anthropological methodologies. Language is presented as a shared system of symbols that encodes various cultural realities in Western and non-Western societies. This course surveys three core areas in linguistic anthropology: Structural Linguistics phonology, morphology, syntax, and semantics; Historical linguistics—origins and evolution of language, the development of language over time including its changes, variations, and language loss; and Sociolinguistics-language acquisition in a cultural context, how culture shapes language, and the intersection of language and systems of power.

Transferable to UC or CSU; see counselor for limitations

3.0 units

ANTHR 10 Magic, Witchcraft and Religion 54 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.

Transferable to UC or CSU; see counselor for limitations

ANTHR 11(C-ID ANTH 110)5.0 unitsPhysical Anthropology Lecture and Lab72 hours lecture, 54 hours laboratoryGrading: letter grade or pass/no pass

This course is a combined lecture and laboratory course and may be taken in place of Anthropology 1 and Anthropology 1L. Issues and topics will include the principles of genetics and evolution, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The philosophy of science and the scientific method serve as foundations to the course. Laboratory exercises will explore cellular structure, genetics, the evolutionary process, human variation, human and nonhuman primate anatomy and behavior, the primate/hominin fossil record, and analysis of human skeletal material.

Transferable to UC or CSU; see counselor for limitations

ANTHR 20

3.0 units

Archaeology Field Survey Methods 36 hours lecture, 54 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. Transferable to CSU

ANTHR 30

4.0 units

Maritime Archaeology Survey Technology 54 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

This is a lecture/lab course designed to introduce students to the various survey methodologies and technologies used in maritime archaeology. Instruction will focus on the utilization of remote sensing technological equipment including; side scan sonar, sub

bottom profiler, & proton magnetometer. Students will learn the background and history of maritime exploration, navigation and archaeology. Students will also learn how to create a survey research design utilizing this equipment as well as how to create maps of the surveyed area. Students will be trained in the set-up and deployment of the remote sensing instruments in mandatory field laboratory sessions. This course will also focus on the ethical and legal framework of submerged cultural heritage preservation. Mandatory field laboratory sessions will be scheduled at predetermined dates and locations and will be announced in the Schedule of Classes for the relevant semester. Transferable to UC or CSU; see counselor for limitations

ARCHITECTURAL DESIGN (ARCHT)

ARCHT 20 3.0 units Visual Literacy and Civilization 36 hours lecture, 54 hours laboratory Grading: letter grade

ARCHT 20 is a visual exploration of civilization with a focus on culture in the built environment. This course analyzes the rules of representational conventions in the context of their rich cultural history, and contrasts them with non-western traditions. Introduction to several of 20th century's schools of thought that have been critical of the hegemonic visual regime of modernity, and its role in colonial expansion and domination of non-western cultures. Opportunities to discuss the readings and to conduct drawing exercises that will illustrate these readings.

Transferable to CSU

3.0 units ARCHT 21 **Design Methods and Theories** 36 hours lecture, 54 hours laboratory Grading: letter grade

This course introduces students to the process of architectural design, exploring the built environment through lectures, readings, film and activities that address different design approaches. It includes studies of historical precedents; an exposition of various design philosophies; and an introduction to the tools, techniques, and methods relevant in the design process. Transferable to CSU

4.0 units

4.0 units

ARCHT 61 Architectural Design Studio I

54 hours lecture, 54 hours laboratory Grading: letter grade

ARCHT 61 is an introductory architectural class utilizing a range of software to document design solutions both graphically and through model building techniques. The class prepares students for careers in the field of architecture and related fields such as interior and environmental design. Students apply elements of design and characteristics of style to create a small structure and develop a corresponding graphic presentation consisting of architectural drawings and precedent studies.

Transferable to CSU

ARCHT 62 **Architectural Design Studio II** 54 hours lecture, 54 hours laboratory Prerequisite: ARCHT 61 Grading: letter grade

ARCHT 62 is an architectural class that uses CAM/BIM software to document design solutions both graphically and through model building techniques. The class prepares students for careers in the field of architecture and related fields such as interior and environmental design. Students apply elements of design and characteristics of style to create a partial set of preliminary architectural drawings for a prefabricated housing project, engaging socio and cultural conditions as an impetus for design. Transferable to CSU

ARCHT 65 Architectural Design Studio III 54 hours lecture, 54 hours laboratory Prerequisite: ARCHT 62 Grading: letter grade

4.0 units

This is an intermediate architectural design course for the transfer, occupational or returning student. It is a design course where students will create 2D and 3D architectural designs, 2D construction drawings and build physical models. Students will focus on landscape and ecological issues, developing a detailed residential structure.

ARCHT 66 4.0 units **Architectural Design Studio IV** 54 hours lecture, 54 hours laboratory Prerequisite: ARCHT 65 Grading: letter grade

This is an intermediate level architecture courses for the transfer, occupational or returning student. It is a design course focused on institutional scale project with an introduction to ADA code. Students will create 2D and 3D architectural designs, 2D construction drawings and build digital models utilizing sketches and the latest 2D & 3D software.

Transferable to CSU

ARCHT 71 4.0 units **Design/Build Studio** 54 hours lecture, 54 hours laboratory Prerequisite: ARCHT 62 Grading: letter grade

Formerly ARCHT 71AD. This is an intermediate level architecture course for transfer, occupational or continuing student. It is a design/build course that utilizes computation, freehand sketching and various fabrication techniques. Students will create complex 2D and 3D architectural designs, complete 2D building plans and build physical and digital models. Students will engage basic construction techniques for hands on experience, cumulating in an installed design/build project.

Transferable to CSU

ARCHT 80 Arch. History - Ancient to Medieval 54 hours lecture Grading: letter grade

3.0 units

ARCHT 80 presents an overview of the history of architecture from the Prehistoric period through the 16th century from a global perspective. The survey covers 5 distinct regions - Africa, Asia, Europe, The Americas and West Asia - proving a wide cross section of global cultural traditions through materials, practice and idea dissemination. Discusses pre-modern western and non-western architectural ideas and practices in their social, cultural, and representational contexts. The course is appropriate for art majors and non-art majors. Transferable to CSU

COURSES

3.0 units

ARCHT 81 Arch. History - Medieval to Renaissance 54 hours lecture Prerequisite: ARCHT 80 Grading: letter grade

This course will examine the architectural history of the Italian Renaissance from its origins in the 14th Century. Students will be guided through the political, economic and social issues that determined the rupture between two main historical eras: the Middle Ages and Modern times

Transferable to CSU

ARCHT 91 3.0 units **Environmental Controls Systems** 54 hours lecture Prerequisite: ARCHT 61 Grading: letter grade

ARCHT 91 will discuss Climate Change and the critical role architects play in the discussion in the context of understanding and designing for the thermal environment of buildings. Through the semester, students will discuss and review basic concepts of sustainability, gaining an understanding of climateappropriate design, passive heating and cooling, and renewable energy systems. At the same time, through weekly readings and assignments, students will use tools to help them understand, measure and design better buildings. They will be exposed to and will learn the international language of sustainability. Transferable to CSU

ARCHT 92

3.0 units

Building Construction 36 hours lecture, 54 hours laboratory **Recommended Preparation: ARCHT 61** Grading: letter grade

Students will learn about various building systems, and how these systems assist in the expression of a design concept, through an examination of precedent projects whose design concepts were generated by material logics and systems. Students will work hands-on with building materials (concrete, wood, metal, etc.) to get an understanding of each material's properties. Transferable to CSU

ARCHT 93 3.0 units Structures 1 54 hours lecture, 18 hours laboratory Prerequisite: ARCHT 62 and PHYS 2A and MATH 40 Grading: letter grade

ARCHT 93 previews the historic evolution of structures, considering the influence of cultural, economic, and resource factors. The four S's for required for architectural structures: Synergy, Strength, Stiffness and Stability. This class studies existing structures determining synergy and load paths, load on buildings (dead- and live load) dynamic and thermal loads, as well as structural responses to loads. With static equilibrium as basis of analysis students calculate the strength of materials and mechanics, examining stress, strain, and stress-strain relations. Transferable to CSU

ARCHT 2304.0 unitsREVIT I54 hours lecture, 54 hours laboratoryGrading: letter grade

Formerly ARCHT 230AD. This is a beginning class in a series of five, 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 231 4.0 units REVIT II 54 hours lecture, 54 hours laboratory Prerequisite: ARCHT 230 Grading: letter grade

Formerly ARCHT 231AD. This is an intermediate class second in a series of five 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. **54 hours lecture, 54 hours laboratory** Prerequisite: ARCHT 231 Grading: letter grade

Formerly ARCHT 232AD. This is an advanced class the third in a series of five 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 Dynamo, a parametric plugin, virtual reality, and cross platform integration.

ARCHT 233 A REVIT IV 54 hours lecture, 54 hours laboratory Prerequisite: ARCHT 232 Grading: letter grade

This is an advanced class the fourth in a series of five 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. Students will learn about other disciplines and their BIM tools, and develop best practices for worksharing.

ARCHT 234 REVIT V 54 hours lecture, 54 hours laboratory Prerequisite: ARCHT 232 Grading: letter grade

This is an advanced class, the fifth in a series of five, aimed at individuals with a drafting background employed in architecture, interior design and other related fields. 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 Historical Building Information Modeling (HBIM) and point cloud management from 3D scanned sites.

RCHT 93 previews the historic evolution of

4.0 units

4.0 units

1.5 units

ARCHT 240	
Introduction to Green Design	
54 hours lecture	
Grading: letter grade	

This course is an introduction to the LEED (Leadership in Energy and Environmental Design) Core Concepts and preparation for the LEED Green Associate Exam. The course covers the LEED rating system which includes: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources and Indoor Environmental Quality. This course is presented as an upto-date understanding of the most current green building principles and practices.

3.0 units

ARCHT 241 Introduction to LEED 54 hours lecture	3.0 units
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 and a closer look to LEED Interior Design and Construction (LEED ID+C) accreditation.

ARCHT 251 3.0 units Rhino Basics 36 hours lecture, 54 hours laboratory Grading: letter grade

This entry-level Rhinoceros course is aimed at individuals with a drafting background employed in engineering, and other related fields who wish to upgrade their skills in the area of Computer Aided Modeling (CAM). CAM training will utilize a recent version Rhinoceros in the Windows environment. This course introduces Rhinoceros fundamentals: user interface, basic draw and edit commands, basic modeling commands, geometry development, geometry modification, and visualization strategies. Exercises cover drawings for industrial and architectural applications.

ARCHT 252 Sketchup I 18 hours lecture, 36 hours laboratory Grading: letter grade

This entry-level Sketchup course is aimed at individuals with a drafting background employed in engineering, and

1.5 units

other related fields who wish to upgrade their skills in the area of Computer Aided Modeling (CAM). CAM training will utilize a recent version SketchUp in the Windows environment. The purpose of the class is to prepare students to use SketchUP to model and present architectural ideas in a timely manner, use V-Ray for SketchUP to create renderings with proper lighting and photo realism.

ARCHT 253 Sketchup II 18 hours lecture, 36 hours laboratory Prerequisite: ARCHT 252 Grading: letter grade

This intermediate Sketchup course is aimed at individuals with a drafting background employed in engineering, and other related fields who wish to upgrade their skills in the area of Computer Aided Modeling (CAM). CAM training will utilize a recent version SketchUp in the Windows environment. The purpose of the class is to prepare students to use SketchUp to perform advanced modeling and learn to use SketchUp layouts to create presentations including the renders, floor plans, sections and elevations in an organized manner.

ARCHT 254 1.5 units AutoCAD Basics 18 hours lecture, 36 hours laboratory Grading: letter grade

ARCHT 254 is an architectural documentation class for Computer Aided Drafting (CAD). This introductory CAD training will utilize a recent version AutoCAD in the Windows environment. This course introduces CAD fundamentals: user interface, basic draw and edit commands, and other architectural industry standards.

ARCHT 255 Visualization and Communication 36 hours lecture, 54 hours laboratory Recommended Preparation: ARCHT 62 Grading: letter grade

A study of advanced individual student architectural design projects for portfolio preparation. Exploration and analysis of portfolio presentation principles and techniques. Development of digital portfolios using computer illustration, photo imaging and page layout programs. Evaluation of printing and binding techniques.

ART (ART)

ART 1 (C-ID ARTH 110) Art and Civilization 54 hours lecture 3.0 units

Recommended Preparation: Completion of or concurrent enrollment in ENGL 1 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. Students are required to complete 2 hours of Supplemental Learning Assistance activities in designated Success Centers over the course of the semester.

Transferable to UC or CSU; see counselor for limitations

ART 1H (C-ID ARTH 110)3.0 unitsHonors Art and Civilization54 hours lecture

Prerequisite: Qualification for the Honors Program Recommended Preparation: Completion of or concurrent enrollment in ENGL 1

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. Students are required to complete 2 hours of Supplemental Learning Assistance activities in designated Success Centers over the course of the semester.

Transferable to UC or CSU; see counselor for limitations

3.0 units

ART 2 (C-ID ARTH 120) Art and Civilization 54 hours lecture

Recommended Preparation: Completion of or concurrent enrollment in ENGL 1 Grading: letter grade or pass/no pass

This course is a survey of western art history in Europe and America from the Renaissance to the modern era. Key artists, movements, and themes will be examined in painting, sculpture, and architecture. The development of art forms will be considered in relation to historical events and the cultural, religious, social, and political trends of the time period. ART 1 is NOT a prerequisite. This course is appropriate for art majors and non-majors. Transferable to UC or CSU; see counselor for limitations

ART 2H (C-ID ARTH 120) Honors Art and Civilization 54 hours lecture

3.0 units

Prerequisite: Qualification for the Honors Program Recommended Preparation: Completion of or concurrent enrollment in ENGL 1 Grading: letter grade or pass/no pass

This course is a survey of western art history in Europe and America from the Renaissance to the modern era. Key artists, movements, and themes will be examined in painting, sculpture, and architecture. The development of art forms will be considered in relation to historical events and the cultural, religious, social, and political trends of the time period. ART 1 is NOT a prerequisite. This course is appropriate for art majors and non-majors. Transferable to UC or CSU; see counselor for limitations

ART 3

3.0 units

3.0 units

Modern and Contemporary Art 54 hours lecture

Recommended Preparation: Completion of or concurrent enrollment in ENGL 1 Grading: letter grade or pass/no pass

This course surveys modern and contemporary art movements from their mid-19th century beginnings to the present. Painting, sculpture, architecture and new art forms are explored in their broader historical, cultural, and philosophical contexts.

Transferable to UC or CSU; see counselor for limitations

ART 4 (C-ID ARTH 140) African, Oceanic, Native American Art 54 hours lecture

Recommended Preparation: Qualification through the English assessment process at an ENGL 105 or ESL 34X and READ 82 or met the college proficiency for English and reading

Grading: letter grade or pass/no pass

This course is a survey of the painting, sculpture, architecture and other cultural objects of sub-Saharan Africa, Australia, Polynesia, Melanesia, Micronesia and Native North America. These traditions will be experienced through lectures, PowerPoint presentations,

videos and music. The relationship of these areas to the developments within modern Western art also will be discussed.

Transferable to UC or CSU; see counselor for limitations

ART 5 (C-ID ARTH 130) 3.0 units **History of Asian Art** 54 hours lecture

Recommended Preparation: Completion of or concurrent enrollment in ENGL 1 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 from prehistory to modern times. Works of art and architecture are discussed in relation to cultural, religious and socio-political contexts.

Transferable to UC or CSU; see counselor for limitations

ART 9 3.0 units Introduction to Art 36 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

This course provides a general approach to exploring a student's innate creative ability, a broad overview of historical and contemporary art concepts, and is an introduction to art processes and methods. This course is designed for the non-art major and is recommended for teaching majors.

Transferable to UC or CSU; see counselor for limitations

ART 10 3.0 units **Art Appreciation** 54 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.

Transferable to UC or CSU; see counselor for limitations

ART 11 (C-ID ARTH 145) 3.0 units Latin American Art and Architecture 54 hours lecture Grading: letter grade or pass/no pass

An introductory historical survey of the visual art and architecture of Mexico, Central America, South America and parts of the Caribbean from 1500 BCE to the late 20th century. Major artworks, monuments and themes will be examined and interpreted using various analytical and contextual perspectives (formal, functional, iconographic, sociological, political and religious) in order to provide an understanding of the works in cultural context. The course is appropriate for art and non-art maiors.

Transferable to UC or CSU; see counselor for limitations

ART 12

3.0 units

Gallery and Exhibition Design 36 hours lecture, 72 hours laboratory Recommended Preparation: ART 30 and ART 31 Grading: letter grade

This course provides a theoretical investigation of and practical experience in gallery operation and art exhibition design. Students will have an opportunity to collaborate in all aspects of planning, designing, and installing art exhibitions in the LBCC Art Gallery and to visit and evaluate exhibitions at other local galleries and museums.

Transferable to CSU

ART 15 (C-ID ARTS 110) 3.0 units **Beginning Drawing** 36 hours lecture, 72 hours laboratory Grading: letter grade or pass/no pass

This is an introductory studio experience in freehand drawing emphasizing accurate observation, light logic, perspective, spatial relationships, proportion and composition. Students develop the use of these skills as a means of personal expression.

Transferable to UC or CSU; see counselor for limitations

ART 16 (C-ID ARTS 205) Intermediate Drawing 36 hours lecture, 72 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. Transferable to UC or CSU; see counselor for limitations

3.0 units

3.0 units

3.0 units

3.0 units

ART 17
Illustration I
36 hours lecture, 72 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. Transferable to CSU

3.0 units

3.0 units

ART 183.0 unitsIllustration II36 hours lecture, 72 hours laboratoryRecommended Preparation: ART 15 and ART 17Grading: letter grade or pass/no pass

Formerly ART 18AD. 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 portfolioquality artwork. In addition, rendering, or sharp focus drawing techniques will be presented and incorporated in several projects. Transferable to CSU

ART 19 (C-ID ARTS 200) Life Drawing 36 hours lecture, 72 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. Transferable to UC or CSU; see counselor for limitations ART 23 (C-ID ARTS 210)
Beginning Painting
36 hours lecture, 72 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 means to portray realistic images. Most of the work will be based upon observation of objects as a way to suggest volume, spatial relationships, light and mood. This course is required of all art majors. Transferable to UC or CSU; see counselor for limitations

ART 243.0 unitsWatercolor, Beginning36 hours lecture, 72 hours laboratory36 hours lecture, 72 hours laboratoryRecommended Preparation: ART 15Grading: letter grade or pass/no pass

This course offers an opportunity to explore and develop creative attitudes, values and personal expression in the medium of watercolor. The course investigates and emphasizes unique techniques, methods and tools, using the elements and principles of two-dimensional pictorial composition in an imaginative, personal manner. Transferable to UC or CSU; see counselor for limitations

ART 25
Watercolor, Advanced
36 hours lecture, 72 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. Transferable to UC or CSU; see counselor for limitations

ART 26 Figure Painting 36 hours lecture, 72 hours laboratory Prerequisite: ART 19 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

commended Preparation: ART 15 iding: letter grade or pass/no pass s course serves as an introduction to and developed to create resolved compositions and accurate representations of the figure. Transferable to UC or CSU; see counselor for limitations

ART 27 3.0 units **Intermediate Painting**

36 hours lecture, 72 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.

Transferable to UC or CSU; see counselor for limitations

ART 28

3.0 units

Portrait Drawing and Painting 37 hours lecture, 72 hours laboratory Prerequisite: ART 15 and ART 23 Grading: letter grade or pass/no pass

Formerly ART 28AD. This is a drawing and painting course focusing on representing the human head. Emphasis will be placed 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. Transferable to CSU

ART 30 3.0 units Fundamentals of Art/Volume, Plane & Form 36 hours lecture, 72 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. Transferable to UC or CSU; see counselor for limitations

ART 31 (C-ID ARTS 100) 3.0 units Fundamentals of Art/Composition & Color 36 hours lecture, 72 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. Transferable to UC or CSU; see counselor for limitations

3.0 units

Intermediate Design 36 hours lecture, 72 hours laboratory Prerequisite: ART 30 or ART 31 Grading: letter grade or pass/no pass

ART 32

This course is a creative studio experience for the student preparing to enter a field of applied design, graphic design, product design, interior design, photography and fine art. Emphasis is on problem solving and refinement of images and objects in the context of art and design.

Transferable to UC or CSU; see counselor for limitations

ART 33 Skills for Jewelry 18 hours lecture, 36 hours laboratory **Recommended Preparation: ART 30** Grading: letter grade or pass/no pass

This course introduces students to foundational skills in jewelry design and fabrication and includes on-campus lab practice. The course is recommended for students who have no experience in jewelry or who wish to explore and develop an individual approach to studio projects in the area of jewelry and metalwork. Transferable to CSU

ART 34 Applied Design/Crafts

3.0 units

1.5 units

36 hours lecture, 72 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. Transferable to UC or CSU; see counselor for limitations

ART 35

3.0 units

Jewelry/Metalsmithing 1 36 hours lecture, 72 hours laboratory Recommended Preparation: ART 30 and ART 31 Grading: letter grade or pass/no pass

Formerly ART 35AD. 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

1.5 units

demonstrated in the construction of projects. Emphasis is on skill acquisition and refinement in a context of art and design.. Transferable to CSU

ART 364.0 unitsJewelry/Metalsmithing 236 hours lecture, 126 hours laboratoryPrerequisite: ART 35Grading: letter grade or pass/no pass

Formerly ART 36AD. 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. Transferable to CSU

ART 374.0 unitsJewelry/Metalsmithing 336 hours lecture, 126 hours laboratoryPrerequisite: ART 35Grading: 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. Transferable to CSU

4.0 units

ART 38 Jewelry/Metalsmithing 4 36 hours lecture, 126 hours laboratory Prerequisite: ART 35 Grading: letter grade or pass/no pass

This course is a continuation of studies to techniques and concepts introduced in ART 35, 36 or 37 with an emphasis on refinement of skills. Included segments may cover facets such as enameling, professional practices or other advanced areas. Transferable to CSU ART 39
Skills for Jewelry II
18 hours lecture, 36 hours laboratory
Recommended Preparation: ART 35
Grading: letter grade or pass/no pass

This course continues to develop skills in jewelry design and fabrication and includes on-campus lab practice. The course is recommended for students who have had Art 35 or equivalent and wish to explore further studio projects in the area of jewelry and metalwork. Transferable to CSU

ART 41
Introduction to Computer Graphics
36 hours lecture, 72 hours laboratory
Grading: letter grade or pass/no pass

3.0 units

This course provides a broad overview of the fundamental concepts involved in computer graphics and digital art production for beginners. Topics include design foundations, visual composition strategies and fine art aesthetics in the use of digital art production tools. Historical background and emerging media trends in digital art are discussed and applied to the various uses of digital media as a tool for creative expression. Transferable to CSU

ART 42 3.0 units Introduction to Multimedia Design 36 hours lecture, 72 hours laboratory Prerequisite: DMA 201 Recommended Preparation: ART 43 and ART 46 and ART 47 and ART 48 Grading: letter grade or pass/no pass

This course serves as an introduction to new media design, emphasizing the unique characteristics of three and four dimensional computer graphics. Students will explore the visual characteristics of virtual dimensions in both time and space through: graphic interfaces, game engines, projection mapping, and transmedia storytelling.

Transferable to UC or CSU; see counselor for limitations

ART 43

3.0 units

Beginning Website Design 36 hours lecture, 72 hours laboratory Prerequisite: ART 41 Recommended Preparation: ART 31 Grading: letter grade or pass/no pass

3.0 units

In this course students learn to apply graphic design theory to a variety of communication needs. The unique design issues associated with 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. Transferable to CSU

ART 443.0 unitsIntroduction to Graphic Design36 hours lecture, 72 hours laboratoryPrerequisite: ART 41Recommended Preparation: ART 31Grading: letter grade or pass/no pass

This course serves as an overview of visual communications, branding and the commercial arts. Students will develop skills in design software and hardware while learning the fundamentals of graphic design for both digital and print media. Through applied projects, students will enhance their ability to coordinate type, image and symbol. Transferable to CSU

ART 45 Computer Art for Drawing and Painting 36 hours lecture, 72 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.

Transferable to UC or CSU; see counselor for limitations

ART 46

3.0 units

3.0 units

Computer Art & Design in 3D Modeling 36 hours lecture, 72 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 threedimensional space. Specific relationships will be made between electronic modeling and the visual arts, in particular, sculpture, animation, illustration, and other areas of computer graphics.

Transferable to UC or CSU; see counselor for limitations

ART 47

Computer Animation and Multimedia 36 hours lecture, 72 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. Transferable to UC or CSU; see counselor for limitations

ART483.0 unitsComputer Art & Design for TV and Video36 hours lecture, 72 hours laboratoryPrerequisite: ART 41

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. Transferable to CSU

ART 49 3.0 units Special Studies-Computer Art and Design 36 hours lecture, 72 hours laboratory Prerequisite: ART 41 Recommended Preparation: Four courses from ART 43, ART 44, ART 45, ART 46, ART 47 and ART 48

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.

Transferable to CSU

ART 50

Ceramics I

3.0 units

36 hours lecture, 72 hours laboratory

Grading: letter grade or pass/no pass

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. Transferable to UC or CSU; see counselor for limitations

ART513.0 unitsCeramics II36 hours lecture, 72 hours laboratory

Prerequisite: ART 50 Recommended Preparation: ART 30 and ART 31 Grading: letter grade or pass/no pass

Formerly ART 51AD. 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.

Transferable to UC or CSU; see counselor for limitations

ART523.0 unitsCeramics III36 hours lecture, 72 hours laboratoryPrerequisite: ART 51Recommended Preparation: ART 30 and ART 31Grading: letter grade or pass/no pass

Formerly ART 52AD. 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.

Transferable to UC or CSU; see counselor for limitations

ART533.0 unitsCeramics IV36 hours lecture, 72 hours laboratoryPrerequisite: ART 51Recommended Preparation: ART 30 and ART 31

Grading: letter grade or pass/no pass

Formerly ART 53AD. 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.

Transferable to UC or CSU; see counselor for limitations

ART 55

Intermediate Graphic Design

36 hours lecture, 72 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. Transferable to CSU

ART 56
Introduction to Typography
18 hours lecture, 36 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. Transferable to CSU

ART 60
Beginning Sculpture
36 hours lecture, 72 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 nontraditional materials. This course is designed to allow students to investigate form, space, material and content through selected projects, readings, field trips, slides and discussions.

Transferable to UC or CSU; see counselor for limitations

ART 61

4.0 units

Intermediate Sculpture 36 hours lecture, 126 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

3.0 units

3.0 units

1.5 units

investigation of both historical and contemporary sculpture that may include carving, casting, modeling, welding, fiberglass lamination, installation and nonstudio 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.

Transferable to UC or CSU; see counselor for limitations

ART624.0 unitsMetal Fabrication Sculpture36 hours lecture, 126 hours laboratoryPrerequisite: ART 60Recommended Preparation: ART 30Grading: 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 heliarc 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. Transferable to CSU

ART 63

4.0 units

Metal Casting Sculpture 36 hours lecture, 126 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. Transferable to CSU

ART 65 Introduction to Wood 36 hours lecture, 72 hours laboratory Prerequisite: ART 60

Recommended Preparation: ART 30 Grading: letter grade or pass/no pass

Introduction to concepts, tools, and techniques used in the creation of handcrafted, wooden objects. Students will explore the basic construction and reductive shaping techniques including, lamination, milling, woodturning, carving, and joinery used in the creation of both fine and applied art objects. Transferable to CSU

ART70Printmaking, Silkscreen36 hours lecture, 72 hours laboratoryGrading: 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; blockout stencil, paper stencil and photoemulsion stencils. Emphasis is on skill acquisition and refinement in the context of art and design. Transferable to UC or CSU; see counselor for limitations

ART 71 Printmaking, Intaglio 36 hours lecture, 72 hours laboratory Grading: letter grade or pass/no pass

This course is an introduction to the graphic art of printmaking as a means of personal expression. The Intaglio class includes techniques and processes for etching, drypoint, engraving, multicolor plates, viscosity, aquatint, and photo etching. Emphasis is on skill acquisition and refinement in a context of art and design. Transferable to UC or CSU; see counselor for limitations

ART 72

3.0 units

Advanced Printmaking 36 hours lecture, 72 hours laboratory Prerequisite: ART 70 or ART 71 Grading: letter grade or pass/no pass

Formerly ART 72AD. 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

3.0 units

3.0 units

COURSES

and mixed media.

Transferable to UC or CSU; see counselor for limitations

ART 80 Elements of Photography 54 hours lecture

Grading: letter grade or pass/no pass

This lecture-only 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. This course is a lecture only format and does not include a lab component. Transferable to UC or CSU; see counselor for limitations

ART 81 3.0 units Introduction to Fine Art Photography 36 hours lecture, 72 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 traditional darkroom skills, operation of a camera, concepts and practices of fine art black and white photography. It is suitable for students with beginning to advanced photographic skill levels. Transferable to UC or CSU; see counselor for limitations

ART 90

1.5 units

3.0 units

Special Projects in Art 18 hours lecture, 36 hours laboratory

Prerequisite: ART 19 or ART 26 or ART 27 or ART 36 or ART 37 or ART 38 or ART 42 or ART 44 or ART 51 or ART 61 or ART 62 or ART 63 or ART 70 or ART 71 Grading: letter grade or pass/no pass

Formerly ART 90AD. This course is designed to assist the student in the exploration and development of an individual approach to projects within specific fields of art.

Transferable to CSU

ART 91 3.0 units **Studio Projects in Art**

36 hours lecture, 72 hours laboratory

Prerequisite: ART 19 or ART 26 or ART 27 or ART 36 or ART 37 or ART 38 or ART 42 or ART 44 or ART 51 or ART 61 or ART 62 or ART 63 or ART 70 or ART 71 Grading: letter grade or pass/no pass

Formerly ART 91AD. 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.

Transferable to CSU

ART 292 3.0 units **Professional Skills for Artists** 36 hours lecture, 72 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.

AMERICAN SIGN LANGUAGE

ASL 1 American Sign Language 1 72 hours lecture, 18 hours laboratory Grading: letter grade or pass/no pass

Formerly SIGN 1 and SIGN 1B. This course is an introduction to the fundamentals of American Sign Language and Deaf culture. It includes development of appropriate linguistic/cultural behaviors and awareness of and respect for Deaf culture.

Transferable to UC or CSU; see counselor for limitations

ASL 2 American Sign Language 2 72 hours lecture, 18 hours laboratory Prerequisite: ASL 1 or SIGN 1 or SIGN 1B Grading: letter grade or pass/no pass

4.0 units

Formerly SIGN 2 and SIGN 2B. This course is an advanced-beginning American Sign Language class. It includes receptive and expressive conversational skills without voice, grammatical structures of American Sign Language, development of appropriate linguistic/cultural behaviors, and awareness of and respect for Deaf culture.

Transferable to UC or CSU; see counselor for limitations

4.0 units

3.0 units

2.0 units

ASL 3 4.0 units American Sign Language 3 72 hours lecture, 18 hours laboratory Prerequisite: ASL 2 or SIGN 2 or SIGN 2B Grading: letter grade or pass/no pass

Formerly SIGN 3. This course is a low-to-mid intermediate-level American Sign Language and Deaf culture class focusing on receptive and expressive conversational skills without voice, using manual and nonmanual, spatial, and temporal grammatical structures. Further study of vocabulary, structure, and narrative techniques will help students develop language fluency to discuss abstract ideas and environments outside the classroom.

Transferable to UC or CSU; see counselor for limitations

ASL 4 4.0 units American Sign Language 4 72 hours lecture, 18 hours laboratory Prerequisite: ASL 3 or SIGN 3 Grading: letter grade or pass/no pass

Formerly SIGN 4. This course is a mid-to-high intermediate-level ASL class focusing on receptive and expressive ASL skills without voice, using manual and non-manual, spatial, and temporal grammatical structures, and Deaf culture. This course provides an expanded review of ASL vocabulary, syntactical structures, grammatical patterns and current linguistic research and will help students develop language fluency at the advanced level.

Transferable to UC or CSU; see counselor for limitations

ASL 24 3.0 units American Deaf Cultures 54 hours lecture Grading: letter grade

Formerly SIGN 24. This course will explore the experiences of Deaf people in the United States. This course will foster the investigation of the issues of language, consciousness, cultures, self-representation, identity, and social construction within and between Deaf groups. Focus will be on cultural oppression, power, contributions of folklore, literature, plays, Deaf art, and the impact of modern technology on multiple discourses of Deaf cultures within America. Transferable to CSU

ASTRONOMY (ASTR)

ASTR 1 Elementary Astronomy 54 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, galaxies and the universe as a whole, including not only their current state, but also theories of their origin and evolution. Transferable to UC or CSU; see counselor for limitations

ASTR 1H 3.0 units Honors Elementary Astronomy 54 hours lecture

Prerequisite: Qualification for the Honors Program Grading: letter grade or pass/no pass

This course is an honors introduction to astronomy. Topics to be covered include the physical nature of the solar system, stars and stellar systems, galaxies and the universe as a whole, including not only their current

state, but also theories of their origin and evolution. Transferable to UC or CSU; see counselor for limitations

ASTR 1L Astronomy Laboratory 18 hours lecture, 54 hours laboratory Corequisite: ASTR 1 or ASTR 1H 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. Transferable to UC or CSU; see counselor for limitations

AUTOMOTIVE TECHNOLOGY (AUTO)

AUTO 200 (C-ID AUTO 110X)3.0 unitsIntroduction to Automotive Technology36 hours lecture, 54 hours laboratoryGrading: letter grade or pass/no pass

Formerly AMECH 421. 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.

AUTO 201 1.0 unit Automotive Lubrication Service 18 hours lecture, 18 hours laboratory Grading: letter grade or pass/no pass

Formerly AMECH 801, ATT 801. This course prepares students with skills needed for performing oil changes, lubrication, under hood services and vehicle inspections.

AUTO 2021.0 unitAutomotive Tire Service18 hours lecture, 18 hours laboratoryGrading: letter grade or pass/no pass

Formerly AMECH 802, ATT 802. This course prepares students with skills needed for doing tires rotation, repair, replacement, balancing and vehicle inspections.

AUTO 203 Automotive Brake Inspection 18 hours lecture, 18 hours laboratory Grading: letter grade or pass/no pass

Formerly AMECH 803, ATT 803. This course prepares students with the skills needed to do basic Service Brake Inspection, brake pads replacement, and vehicle inspection.

AUTO 2113.0 unitsAutomotive Engine Repair36 hours lecture, 54 hours laboratory36 hours lecture, 54 hours laboratoryRecommended Preparation: AUTO 200Grading: letter grade or pass/no pass

Formerly AMECH 434, AMECH 461. This course teaches the students the skills needed to diagnose, service and repair late model engines and related systems. It focuses on all makes and models of gasoline engines with emphasis on using factory service manuals. It prepares the students to take the national A-1 Auto Engine Repair test which is part of the (ASE) Auto Service Excellence program that reflects industry standards.

AUTO 212 (C-ID AUTO 120X) Automotive Automatic Transmission 36 hours lecture, 54 hours laboratory Recommended Preparation: AUTO 200 Grading: letter grade or pass/no pass

3.0 units

1.0 unit

Formerly AMECH 436. This course covers the construction, operation, maintenance, adjustment, service and diagnostic of automatic transmissions and trans-axles. It prepares the students to take the national A-2 Automatic Transmissions and Trans-axles test which is part of the (ASE) Auto Service Excellence program which reflects industry standards.

AUTO 213 (C-ID AUTO 130X)3.0 unitsAutomotive Manual Transmission36 hours lecture, 54 hours laboratory

Recommended Preparation: AUTO 200 or high school auto Grading: letter grade or pass/no pass

This course covers the construction, operation, maintenance, adjustment, service and diagnostic of manual drive trains and axles. It prepares the students to take the national A-3 Manual Drive Trains and Axles test which is part of the (ASE) Auto Service Excellence program which reflects industry standards.

AUTO 214 (C-ID AUTO 140X)	3.0 units
Automotive Wheel Alignment	
36 hours lecture, 54 hours laboratory	
Recommended Preparation: AUTO 200	
Grading: letter grade or pass/no pass	

Formerly AMECH 430. This course covers automotive wheel alignment theory, design, operation, power flow, suspension and steering in automotive vehicle and small truck. It prepares the students to take the national A-4 automotive suspension and steering test which is part of the (ASE) Auto Service Excellence program which reflects industry standards.

AUTO 215 (C-ID AUTO 150X)	3.0 units
Automotive Brake Systems	
36 hours lecture, 54 hours laboratory	
Recommended Preparation: AUTO 200	
Grading: letter grade or pass/no pass	

Formerly AMECH 432. This course covers automotive brake theory, design, and operation of standard drum, disc and anti-lock brake systems common to most automotive vehicle and small truck. It prepares the students to take the national A-5 automotive brake test which is part of the (ASE) Auto Service Excellence program which reflects industry standards.

LONG BEACH CITY COLLEGE

3.0 units

3.0 units

AUTO 2163.0 unitsAutomotive Electrical Systems36 hours lecture, 54 hours laboratoryRecommended Preparation: AUTO 200Grading: letter grade or pass/no pass

Formerly AMECH 444. This course covers theory and components of automotive electrical systems, and operation of automotive electrical. It prepares the students to take the national A-6 Automatic Electrical test which is part of the (ASE) Auto Service Excellence program which reflects industry standards.

AUTO 217 (C-ID AUTO 170X)3.0 unitsAutomotive Air Conditioning36 hours lecture, 54 hours laboratory36 hours lecture, 54 hours laboratoryRecommended Preparation: AUTO 200Grading: letter grade or pass/no pass

Formerly AMECH 424. 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. It prepares the students to take the national A-7 automotive air conditioning test which is part of the (ASE) Auto Service Excellence program which reflects industry standards.

AUTO 2183.0 unitsAutomotive Fuel Systems36 hours lecture, 54 hours laboratoryRecommended Preparation: AUTO 200Grading: letter grade or pass/no pass

Formerly AMECH 442. This course covers theory and components of automotive fuel systems, and operation of automotive fuel system. It prepares the students to take the national A-8 Automotive fuel system test which is part of the (ASE) Auto Service Excellence program which reflects industry standards.

AUTO 219

3.0 units

36 hours lecture, 54 hours laboratory

Automotive Light Diesel Engines

Recommended Preparation: AUTO 200 or high school auto

Grading: letter grade or pass/no pass

This course covers the theory and components of automotive diesel technology. It prepares students to take the national A-9 Automotive Diesel Technology test which is part of the (ASE) Auto Service Excellence program which reflects industry standards.

AUTO 220 Automotive Emission Controls 36 hours lecture, 54 hours laboratory Recommended Preparation: AUTO 200 Grading: letter grade or pass/no pass

Formerly AMECH 438. This course covers the testing and repair of automotive emission control systems and operation of automotive computers scanner testing and oscilloscopes for (Conventional and computer assisted purposes). Prepare students 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.

AUTO 230 Automotive Computer Systems 36 hours lecture, 54 hours laboratory Recommended Preparation: AUTO 200 Grading: letter grade or pass/no pass

Formerly AMECH 440. This course covers theory and components of automotive computer control system operation and testing of computer controlled oxygen feedback system. It prepares the students to take the national (ASE) Auto Service Excellence program which reflects industry standards.

AUTO 270 (C-ID ALTF 100X)3.0 unitsIntro to Hybrid and Electric Vehicles45 hours lecture, 36 hours laboratoryRecommended Preparation: AUTO 200Grading: letter grade or pass/no pass

Formerly ATT 480 and AMECH 480. This course provides a broad introduction to Hybrid, Fuel Cell, and Electric Vehicles. Discover how emerging vehicle technologies are finding solutions for existing fossil-fueled engines. Examine existing vehicle technologies and peek into future technologies.

AUTO 271

3.0 units

Introduction to Alternative Fuel Systems 45 hours lecture, 36 hours laboratory Recommended Preparation: AUTO 200 Grading: letter grade or pass/no pass Formerly AMECH 490 and ATT 490. Alternative fueled vehicles are extensively used in fleet service. This course covers the theory of operation, installation, testing,

troubleshooting, and repair of gaseous fuels with a focus on Compressed Natural Gas (CNG) as well as an introduction to Liquefied Natural Gas (LNG). This course discusses both dedicated and after-market systems. Gasoline and diesel-powered vehicles are discussed with an emphasis on computer-controlled fuel injection. Components are heavily discussed in this course to include everything from storage up to the injector(s). Successful completion of this course will prepare students for the CNG Inspector's Certification.

3.0 units

AUTO 280

Light Duty Electric Vehicles 45 hours lecture, 36 hours laboratory Recommended Preparation: AUTO 200

Grading: letter grade or pass/no pass

Formerly ATT 482. This course focuses on light-duty passenger electric vehicles (EVs). It provides a practical introduction to advanced EV designs and propulsion systems. The course includes: EV design and construction; the testing, assembly, operation, and maintenance of EVs; the influence of aerodynamic design; advanced technology batteries, super-capacitors, intelligent charging systems; hydrogen fuel cell technology, and alternative EV drive systems. Successful completion of this course will prepare students for the ASE L3 (Light Duty Hybrid/EV Vehicle Specialist Certification).

AUTO 2813.0 unitsLight Duty Hybrid Vehicles45 hours lecture, 36 hours laboratoryRecommended Preparation: AUTO 200Grading: letter grade or pass/no pass

Formerly AMECH 481 and ATT 481. This course focuses light-duty passenger hybrid electric vehicles (HEVs). It provides a practical introduction to advanced HEV design and propulsion systems. The course includes: HEV design and construction; the testing, assembly, operation, and maintenance of HEVs; the influence of aerodynamic design; advanced technology batteries, super-capacitors, intelligent charging systems; hydrogen fuel cell technology, and alternative EV drive systems. Successful completion of this course will prepare students for the ASE L3 (Light Duty Hybrid/EV Vehicle Specialist Certification). 3.0 units

3.0 units

AUTO 282 Light Duty Alternative Fuels 45 hours lecture, 36 hours laboratory Recommended Preparation: AUTO 200 Grading: letter grade or pass/no pass

Formerly AMECH 493 and ATT 493. This course focuses light-duty passenger with Compressed Natural Gas (CNG) applications. It provides a practical introduction to CNG and propulsion systems. The course includes: CNG design and construction; the testing, assembly, operation, and maintenance of CNG vehicles; the influence of aerodynamic design; slow fill and fast fill systems; cylinder design and construction, and Liquefied Natural Gas (LNG) systems. Successful completion of this course will prepare students for the ASE F1 (Light Vehicle Compressed Natural Gas Specialist Certification).

AUTO 283 Light Duty EV Powertrain Diagnostics 45 hours lecture, 36 hours laboratory Recommended Preparation: AUTO 200 Grading: letter grade or pass/no pass

Formerly AMECH 483 and ATT 483. Light Duty Electric Vehicle (EV) Powertrain Diagnostics involves extensive indepth analysis for each EV component. Students will develop diagnostic strategies and perform repairs on specific components. This course covers the EV components of the Hybrid propulsion systems.

AUTO 2923.0 unitsHeavy Duty Alternative Fuels45 hours lecture, 36 hours laboratoryRecommended Preparation: AUTO 200Grading: letter grade or pass/no pass

Formerly AMECH 491 and ATT 491. This course focuses on heavy-duty passenger with Compressed Natural Gas (CNG) applications used in transit and port vehicles. It provides a practical introduction to CNG and propulsion systems featuring the ISL-G Cummins 8.9L engine. The course includes: CNG design and construction; the testing, assembly, operation, and maintenance of CNG vehicles; the influence of aerodynamic design; slow fill and fast fill systems; cylinder design and construction, and Liquefied Natural Gas (LNG) systems. Successful completion of this course will prepare students for the ASE F1 (Light Vehicle Compressed Natural Gas Specialist Certification).

AUTO 600	0.0 unit
Introduction to Automotive Technology	
36 hours lecture, 54 hours laboratory	
Grading: LBCC non-graded course	

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.

AUTO 6010.0 unitAutomotive Lubrication Service18 hours lecture, 18 hours laboratoryGrading: LBCC non-graded course

This course prepares students with skills needed for performing oil changes, lubrication, under hood services and vehicle inspections.

AUTO 602	0.0	unit
Automotive Tire Service		
18 hours lecture, 18 hours laboratory		
Grading: LBCC non-graded course		

This course prepares students with skills needed for doing tires rotation, repair, replacement, balancing and vehicle inspections.

AUTO 6030.0 unitAutomotive Brake Inspection18 hours lecture, 18 hours laboratory

Grading: LBCC non-graded course

This course prepares students with the skills needed to do basic Service Brake Inspection, brake pads replacement, and vehicle inspection.

BAKING (BAKE)

BAKE 230 3.0 units Baking & Pastry Skills for CUL Students 36 hours lecture, 72 hours laboratory Prerequisite: CULAR 90 or CULAR 202 or CULAR 213A Corequisite: CULAR 20 Grading: letter grade

Formerly CULAR 230. This course introduces the Culinary Arts student to baking & pastry ingredients, equipment, and procedures in order to build a repertoire of basic baking & pastry techniques for the restaurant and hotel industries. This includes the production of basic breads, pies, cakes, ice creams, sauces, and chocolate culminating in plated desserts. Note: Proof of TB clearance is required on the first day of class.

BAKE2415.0 unitsBaking Skills and Principles36 hours lecture, 162 hours laboratoryCorequisite: CULAR 20Grading: letter grade

Formerly CULAR 241. This course covers basic baking principles, motor skills, equipment, ingredients, storage, and sanitation in the bakeshop. Students will learn the different mixing, make-up, and baking/cooking techniques that constitute the foundation of baking, including lean and rich yeast doughs, cookies, quick breads, sweet dough, laminated doughs, batters, and creams. Note: Proof of TB clearance is required on the first day of class.

BAKE 2425.0 unitsPastry Skills and Principles36 hours lecture, 162 hours laboratoryCorequisite: CULAR 20Grading: letter grade

Formerly CULAR 242. This course covers basic pastrymaking principles, motor skills, equipment, ingredients, storage, and sanitation in the bakeshop. Students will learn the different mixing, baking, icing, and decorating techniques for a variety of cakes, tarts, and desserts. These include mousses, chocolate, ice cream, cooked creams, buttercreams, meringues, ganaches, génoise, sponges, and jocondes. Note: Proof of TB clearance is required on the first day of class.

BAKE 243A Advanced Bakery Operations 72 hours lecture

Prerequisite: CULAR 20 and (BAKE 241 or CULAR 241 or CULAR 204) and (BAKE 242 or CULAR 242 or CULAR 205) Corequisite: BAKE 243B or CULAR 243B Grading: letter grade

Formerly CULAR 243A. This capstone course focuses on bakery and pastry production for a professional bakery/café outlet. Students learn the theories behind quantity production of baking and pastry products including a variety of breads, baked goods, savories, pastries, pies, cakes, tarts, celebration, and holiday desserts. Note: Proof of TB clearance is required on the first day of class.

4.0 units

1.5 units

4.0 units **Advanced Bakery Practicum**

216 hours laboratory

BAKE 243B

Prerequisite: CULAR 20 and (BAKE 241 or CULAR 241 or CULAR 204) and (BAKE 242 or CULAR 242 or CULAR 205) Corequisite: BAKE 243A or CULAR 243A Grading: letter grade

Formerly CULAR 243B. This capstone course gives students real-time professional bakery and pastry production and sales experience via LBCC's student-run Bakery. It immerses the student in hands-on practice of quantity production of baking and pastry products including a variety of breads, baked goods, savories, pastries, pies, cakes, tarts, celebration, and holiday desserts. Note: Proof of TB clearance is required on the first day of class.

BAKE 246 1.5 units **Specialty Cakes and French Pastries**

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and (BAKE 241 or CULAR 241 or CULAR 204) and (BAKE 242 or CULAR 242 or CULAR 205) Grading: letter grade

Formerly CULAR 246. This course expands on basic pastry skills to produce a variety of intricate cakes, entremets, French pastries, and desserts. An array of advanced techniques will be used for baking different sponges, génoise, joconde, and meringue-based preparations, as well as advanced creams and fillings, assembly, and decorating techniques. Note: Proof of TB clearance is required on the first day of class.

BAKE 247

Cake Decorating

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and (BAKE 241 or CULAR 241 or CULAR 204) and (BAKE 242 or CULAR 242 or CULAR 205) Grading: letter grade

1.5 units

Formerly CULAR 247. This course covers advanced skills for cake making and decorating, including preparation of sponges, fondants, icings, fillings, designs and arrangements, writing and lettering, coloring, cake borders, modeling chocolate, and gumpaste flowers. Note: Proof of TB clearance is required on the first day of class.

BAKE 253 Chocolate, Sugar, and Confections 18 hours lecture, 36 hours laboratory Corequisite: CULAR 20 Grading: letter grade

Formerly CULAR 253 and CULAR 254. This course explores the hands-on techniques of working with chocolate and sugar. It covers pastillage; cast, blown, and pulled sugar; and chocolate tempering. Included will be candy confections such as hand-shaped, piped, and cut ganaches; nut-centered and caramel candies; pâte de fruit, toffee, and nougat. Note: Proof of TB clearance is required on the first day of class.

BAKE 255 1.5 units **Plated Desserts** 18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and (BAKE 241 or CULAR 241 or CULAR 204) and (BAKE 242 or CULAR 242 or CULAR 205) Grading: letter grade

Formerly CULAR 255. This course provides a study of the components that are involved in the creation of plated desserts: sauces, edible decorative elements, balance of colors and appropriate combination of flavors, size, temperature, theme, and consistency; and an introduction to frozen desserts: principles and techniques involved in making and processing ice cream, gelato, sorbet, granitas, frozen soufflés, parfaits, and bombes. Note: Proof of TB clearance is required on the first day of class.

BAKE 256 1.5 units **Holiday Desserts** 18 hours lecture, 36 hours laboratory Prerequisite: CULAR 20 and (BAKE 241 or CULAR 241 or CULAR 204) Grading: letter grade

Formerly CULAR 256. This course explores the baking traditions that are closely associated with the Fall/Winter holidays. It covers traditional and modern variations of recipes and techniques from different countries in the old and the new world, such as Stollen, King's Cake, Yule Log, Panettone, and Fruit Cake. Note: Proof of TB clearance is required on the first day of class.

3.0 units

BAKE 2581.5 unitsArtisan Breads18 hours lecture, 36 hours laboratoryPrerequisite: CULAR 20 and (BAKE 241 or CULAR 241 orCULAR 204)Grading: letter grade

Formerly CULAR 258. This course provides an in-depth study of the principles and techniques for the preparation and baking of Artisan breads. All breads are mixed and shaped employing traditional techniques, and using pre-fermented dough, sponges, and sourdough starters. Note: Proof of TB clearance is required on the first day of class.

BAKE 2591.5 unitsViennese Pastries18 hours lecture, 36 hours laboratoryPrerequisite: CULAR 20 and (BAKE 241 or CULAR 241 orCULAR 204)Grading: letter grade

Formerly CULAR 259. This course provides an in-depth study of the principles, recipes, techniques, tools, equipment, materials, and ingredients used for the preparation of Viennese Pastries, baked goods which are made in a similar manner to bread but with ingredients that give them a heavier, sweeter quality closer to pastry. Note: Proof of TB clearance is required on the first day of class.

BUSINESS, COMMUNICATIONS (BCOM)

3.0 units

3.0 units

BCOM 15 Business Communications 54 hours lecture Grading: letter grade or pass/no pass

Formerly CAOTO 15. This course covers the principles of collecting, organizing, analyzing, and presenting business information. Written and oral communication involving problem solving in business are emphasized. Transferable to CSU

BCOM 20 (C-ID BUS 115) Business Writing 54 hours lecture Prerequisite: ENGL 1 Grading: letter grade or pass/no pass

This course delivers a basic understanding of business communication. The curriculum is designed to familiarize

students with the techniques, strategies, and forms of writing used in the professional world. Emphasis will be placed on developing precise and persuasive language skills to achieve business goals. The course will prepare students for communication in the workplace and in other business classes. Transferable to CSU

BCOM 25 Digital and Social Media 54 hours lecture Grading: letter grade or pass/no pass

In this course, students will explore the design and impact of digital and social media technologies for both personal and professional application in a wide variety of organizational situations. Additionally, students will learn to understand digital and social media etiquette and ethics. Both the potential and the limitations of this technology will be explored and students will have access to hands-on experience with several forms of social media technology. Those who complete this course will be prepared to use digital and social media productively and will have a framework for understanding and evaluating new technology tools and platforms as they are developed. This course is not open for credit to students who have completed GBUS 25. Transferable to CSU

BCOM 2223.0 unitsJob Search Skills54 hours lectureRecommended Preparation: COSK 200Grading: letter grade or pass/no pass

Formerly CAOTO 222. This course is designed to help students develop occupational competence for obtaining desired positions in the workforce. The course covers self-evaluation, researching specific careers and companies, conducting informational interviews, preparing required documents (resume, cover letter) that get the interview, interviewing to sell yourself as the best candidate, and applying follow-up procedures.

BCOM260Business Telephone Procedures18 hours lectureGrading: letter grade or pass/no pass

Formerly CAOTO 260. This course is designed for the person who needs instruction and practice in developing professional communication skills using the telephone

1.0 unit

0.0 unit

and all telephone-related technologies found in today's work environment.

1.0 unit

BCOM 262 Soft Skills for the Workplace 18 hours lecture Grading: letter grade or pass/no pass

Formerly CAOTO 262. 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.

BCOM 2633.0 unitsCustomer Service54 hours lectureGrading: letter grade or pass/no pass

Formerly CAOTO 263. This course covers customer service including its importance to a successful business, customers' needs and wants, support, as well as interactions and relationships. Students learn to develop multitasking skills, reduce stress, and maintain a positive attitude. Students will explore several different aspects of conflict and learn important skills that can help manage conflicts effectively as a customer service employee.

BCOM 622	0.0 unit
The Job Search Process	
18 hours lecture	
Grading: LBCC non-graded course	

This course is designed to provide Computer and Office Studies (COS)/Business Communication (BCOM) students with insight regarding steps to begin planning for their future careers. Students will conduct self-assessments, create a career plan, and discover who they are as future employees.

BCOM 623	0.0 unit
Job Search Tools	
18 hours lecture	
Grading: LBCC non-graded course	

The course will focus on creating, drafting, revising, and presenting workplace-related documents. Students will create a job portfolio related to business communications that includes a resume and cover letter. BCOM 624 The Interview Process 18 hours lecture Grading: LBCC non-graded course

This course will focus on the development of business communication skills required in a job interview. Students will develop competency in the preparation for, participation in, and reflection on the job interview process.

BIOLOGY (BIO)

BIO1A(C-ID BIOL 135S*)5.0 unitsBiology for Science Majors54 hours lecture, 108 hours laboratoryPrerequisite: CHEM 1AGrading: 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 prokaryotes, protista, and fungi. Transferable to UC or CSU; see counselor for limitations

BIO1B(C-ID BIOL 135S*)5.0 unitsBiology for Science Majors54 hours lecture, 108 hours laboratoryPrerequisite: BIO 1AGrading: 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. Transferable to UC or CSU; see counselor for limitations

BIO 25.0 unitsGeneral Microbiology54 hours lecture, 108 hours laboratory54 hours lecture, 108 hours laboratoryPrerequisite: ANAT 1 or ANAT 41 or BIO 60 or BIO 1A orCHEM 3Grading: 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, pathogenesis of bacteria & viruses, control of micro-organisms, microbial nutrition and growth, the most common genera of micro-organisms and their connection to disease processes, 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, which is transferable to four-year universities.

Transferable to UC or CSU; see counselor for limitations

BIO54.0 unitsPlant Biology54 hours lecture, 54 hours laboratoryGrading: letter grade or pass/no pass

This course utilizes lecture, laboratory, 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 nonscience major. Not open to students registered in or with credit in BIO 1A.

Transferable to UC or CSU; see counselor for limitations

BIO113.0 unitsEnvironmental Problems of Man54 hours lectureGrading: letter grade or pass/no pass

This course is a study of the effects of man's interaction with the environment, problems resulting from ignoring known ecological principles and socio-cultural implications 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. Sustainable solutions and lifestyles will be emphasized. Transferable to UC or CSU; see counselor for limitations

4.0 units

BIO 20 Marine Biology 54 hours lecture, 54 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.

Transferable to UC or CSU; see counselor for limitations

BIO 20H Honors Marine Biology

54 hours lecture, 54 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. Transferable to UC or CSU; see counselor for limitations

BIO 22 The Marine Environment 54 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. Students will discover basic principles of oceanography including the ocean's dynamic structure, its properties and functions, as well as its effect on geopolitical and economic matters. Other topics will be explored including the diversity of marine life forms, ocean pollution, human exploitation, management and conservation of marine resources. Transferable to CSU

BIO253.0 unitsBiology and Society54 hours lectureGrading: 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. Transferable to UC or CSU; see counselor for limitations

BIO 28

2.0 units

Field Natural History of the Mountains 23 hours lecture, 36 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

4.0 units

3.0 units

emphasis is placed on life zones and the identification of their representative plants and animals. Transferable to CSU

BIO 30 4.0 units Wildlife Biology 54 hours lecture, 54 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.

Transferable to UC or CSU; see counselor for limitations

BIO 31 Birds 27 hours lecture, 27 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. Transferable to CSU

BIO 41 3.0 units **Contemporary Biology** 54 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 5. Transferable to UC or CSU; see counselor for limitations

BIO 41H

3.0 units

2.0 units

54 hours lecture Prerequisite: Qualification for the Honors Program 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. Transferable to UC or CSU; see counselor for limitations

1.0 unit BIO 41L **Contemporary Biology Laboratory** 54 hours laboratory Corequisite: BIO 41 or BIO 41H 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.

Transferable to UC or CSU; see counselor for limitations

BIO 41LH Honors Contemporary Biology Lab 54 hours laboratory

1.0 unit

Prerequisite: Qualification for the Honors Program Corequisite: BIO 41 or BIO 41H 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. Eligibility for the Honors Program is required for enrollment.

Transferable to UC or CSU; see counselor for limitations

BIO 60

4.0 units

Human Biology 1 72 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. Biology 60 is designed to fulfill the general science requirement and to meet the prerequisite needs of the health occupations student. This course is not open for credit to

Honors Contemporary Biology

students registered in or with credit in ANAT 1 and PHYS 1.

Transferable to UC or CSU; see counselor for limitations

BIO 60L 1.0 unit **Human Biology 1 Laboratory** 54 hours laboratory Corequisite: BIO 60 Grading: letter grade or pass/no pass

Human Biology lab provides hands-on experience for principles learned in BIO 60 through experiments, demonstrations and dissections. Not open for credit to students registered in or with credit in BIO 1A-B or 5. Transferable to UC or CSU; see counselor for limitations

61	3.0 units
an Biology 2	
ours lecture	
equisite: BIO 60 or ANAT 41 or (ANAT 1	and PHYSI 1)
	61 an Biology 2 burs lecture equisite: BIO 60 or ANAT 41 or (ANAT 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.

Transferable to UC or CSU; see counselor for limitations

BIO 602 0.0 unit **Introduction to Health Career Sciences** 36 hours lecture Corequisite: READ 602 Grading: LBCC non-graded course

This course provides instruction of literacy and science skills in preparation for prerequisite courses such as Human Anatomy, Physiology, and Microbiology, and prepares students to have good work habits on the job.

COMPUTER AID DESIGN (CAD)

CAD 50

2.0 units

Mechanical Drafting, Introduction 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly DRAFT 51A. CAD 50 is an engineering documentation class covering dimensioning and tolerancing, orthographic projection, pictorial views, auxiliary views, and section views. Attention to

manufacturing processes will be practiced on all drawings particularly for both additive and subtractive manufacturing. Freehand lettering, sketching and drawing instruments for manual applications, computer aided drafting software techniques and transfer to computer aided manufacturing software programs will be taught. Individualized and teamwork drawing projects will be emphasized. Transferable to CSU

CAD 51 **Mechanical Drafting, Intermediate** 18 hours lecture, 54 hours laboratory **Recommended Preparation: CAD 50** Grading: letter grade or pass/no pass

2.0 units

2.0 units

Formerly DRAFT 51B. CAD 51 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.

Transferable to CSU

CAD 52 CAD/CAM 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly DRAFT 52A. CAD 52 covers the successful transfer of manufacturable design parts to Computer Aided Manufacturing (CAM), emphasizing interactive graphics programming for Numerical Control (NC) machines. Concepts studied will include interactive geometry construction, tool motion, machine functions, repetitive programming, graphic output and graphic editing. Students will process programs from designed parts using interactive graphics computer systems. Transferable to CSU

CAD 60

3.0 units Geometric Dimensioning and Tolerancing 54 hours lecture **Recommended Preparation: CAD 50** Grading: letter grade or pass/no pass

Formerly DRAFT 60. 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 (nongeometric 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.

2.0 units

Transferable to CSU

CAD 202 AutoCAD Fundamentals 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly DRAFT 202. This entry-level AutoCAD course is aimed at individuals with a drafting background employed in engineering, and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD). CAD training will utilize a recent version AutoCAD in the Windows environment. This course introduces CAD fundamentals: user interface, basic draw and edit commands, template drawings, dimensioning, electronic drawing sheets, file management, printing and plotting for CAD users. Exercises cover drawings for mechanical, civil and architectural applications.

CAD 203 2.0 units AutoCAD II, Advanced Concepts 18 hours lecture, 54 hours laboratory Prerequisite: CAD 202 Grading: letter grade or pass/no pass

Formerly DRAFT 203AD. This course is 2nd in a series of 3 classes leading to a certificate - CAD Professional (324 Hours). This intermediate level AutoCAD class is 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. 2.0 units

2.0 units

CAD 204 3D Visualization/Animation 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly DRAFT 204. 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. CAD training will utilize AutoCAD and one or more of the following – Architectural Desktop, Sketchup, REVIT Architecture and 3D Studio MAX Software. Digital nonlinear editing is introduced. 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.

CAD 220 Introduction to CATIA 18 hours lecture, 54 hours laboratory

Recommended Preparation: CAD 50 or industry drafting or high school drafting classes Grading: letter grade or pass/no pass

This course is the first in a series of three courses preparing students for careers as computer aided drafting operators in various industries utilizing CATIA parametric design software. The class introduces students to the fundamental operations of CATIA software concentrating on the user interface and the creation of industry standard detail parts and assemblies based on 2D profiles (sketches) in a Windows environment. The course may serve as a preparation for students intending to take industry certification tests CATIA PART DESIGN SPECIALIST and CATIA ASSEMBLY DESIGN SPECIALIST created by Dessault Systems.

CAD 221 Intermediate CATIA

2.0 units

18 hours lecture, 54 hours laboratory Recommended Preparation: CAD 220 Grading: letter grade or pass/no pass

Formerly DRAFT 221. This course is the second course in a series of three preparing students for careers as computer aided drafting operators in various industries utilizing CATIA parametric design software. This intermediate level class introduces students to the more complex operations of CATIA software than the former class by concentrating on advanced design solids

2.0 units

modeling concepts and applying them in the creation of industry standard detail parts drawings and advanced assembly/subassembly drawings in a Windows environment. The course may serve as a preparation for students intending to take industry certification tests CATIA PART DESIGN Expert and CATIA Assembly Design Expert created by Dessault Systems.

CREATIVE ARTS (CART)

CART 41 The Arts and Modern Man 54 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 and attend an exhibit and live performances related to the major areas of concentration in this course (art, music & theatre).

3.0 units

Transferable to UC or CSU; see counselor for limitations

CHILD & ADULT DEVELOPMNT-EARLY CHILDHOOD ED(CDECE)

CDECE 19 (C-ID ECE 220) 3.0 units Health, Safety and Nutrition DS7 54 hours lecture Recommended Preparation: KINPP 23M1 Grading: letter grade or pass/no pass

This course provides and introduction to the laws, regulations, standards, policies, procedures and early childhood curriculum related to child health, safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. The focus is on integrating the concepts into everyday planning and program development for all children. An additional three to five hours of child observation, outside of regular class hours is required for this course. Transferable to CSU

CDECE 31 **Adult Supervision** 36 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, volunteers, staff, and other adults in early care and education settings. Emphasis is on the roles and development of early childhood professionals as mentors and leaders. Transferable to CSU

CDECE 34 **Children's Literature DS3** 54 hours lecture Grading: letter grade

3.0 units

This course examines traditional and contemporary children's literature including poetry, fiction, nonfiction, and folk literature from a variety of cultures. Criteria for literary and artistic evaluation as well as literary concepts such as theme and plot will be examined. Students will demonstrate presentation techniques and explore curriculum and community support for literature experiences with children. Transferable to CSU

CDECE 40 Infant and Toddler Development D4 54 hours lecture Prerequisite: CDECE 45 or CDECE 47

3.0 units

Grading: letter grade

This course is a study of infants and toddlers from preconception to age three including physical, cognitive, language, social, and emotional growth and development. Students will apply theoretical frameworks to interpret behavior and interactions between heredity and environment. The course emphasizes the role of the family and relationships in development. Transferable to CSU

3.0 units CDECE 41 Care and Education of Infants and Toddlers D4 54 hours lecture Prerequisite: CDECE 45 or CDECE 47 Grading: letter grade

This course examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. Students will apply current theory and research to the care and education of infants and toddlers in group settings. Transferable to CSU

CDECE 45 (C-ID CDEV 100) 3.0 units Child & Adolescent Development DS1 54 hours lecture

Grading: letter grade or pass/no pass

This introductory course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. The course meets the State of California requirement for teaching in early childhood education programs. Transferable to CSU

CDECE 47 (C-ID PSY 180)3.0 unitsHuman Development3.4 hours lecture54 hours lectureGrading: letter grade or pass/no pass

This course examines the major physical, psychosocial, and cognitive/language developmental milestones throughout the life span, both typical and atypical, from conception through death. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children and interview adults, evaluate individual differences and analyze characteristics of development at various stages. This course meets the State of California requirement for teaching preschool.

Transferable to UC or CSU; see counselor for limitations

CDECE 48 (C-ID CDEV 110)3.0 unitsChild, Family and Community D254 hours lectureGrading: letter grade or pass/no pass

This course examines the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. This course fulfills state licensing requirements for child, family and community D2.

Transferable to UC or CSU; see counselor for limitations

CDECE 50 (C-ID ECE 130)3.0 unitsIntro to Curriculum for Young Children54 hours lecturePrerequisite: CDECE 45 or CDECE 47

Grading: letter grade or pass/no pass

This course explores the principles and methods of planning, implementing and evaluating developmentally and culturally appropriate curriculum environments for young children. The emphasis is on curricular approaches, observation, assessment, activity planning, and practice in all developmental domains. An overview of content areas will include but not be limited to: language and literacy, social studies, dramatic play, sensory learning, art, music and movement, math and science. An additional three to five hours of child observation, outside of regular class hours is required for this course. This course fulfills state requirements for programs/curriculum, DS3. Transferable to CSU

CDECE 53 (C-ID ECE 120) Principles and Practices 54 hours lecture Grading: letter grade or pass/no pass

3.0 units

This course examines the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. Environments will be examined for influences of culture and inclusion on the developing child.

Transferable to CSU

CDECE 54

3.0 units

Art & Creative Dev. in Early Childhood D3 54 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. Transferable to CSU

CDECE 55 3.0 units **Music & Movement in Early Childhood D3** 54 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. Transferable to CSU

3.0 units

CDECE 57 Science & Math in Early Childhood D3 54 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. Transferable to CSU

3.0 units CDECE 58 Language & Literacy in Early Childhood 54 hours lecture Grading: letter grade

This course surveys the range of language and literacy theories, practices and activities that support young children's development. This course meets state licensing requirements for program curriculum D3. Transferable to CSU

CDECE 59 3.0 units **Guiding Young Children DS3** 54 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. Transferable to CSU

CDECE 60A

3.0 units Admin of Child Development Programs D6 54 hours lecture Prerequisite: CDECE 45 or CDECE 47 Grading: letter grade or pass/no pass

Introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program. May be applied to degree, certificate or area of specialization requirements.

Transferable to CSU

CDECE 60B **Advanced Supervision of ECE D6** 54 hours lecture Prerequisite: CDECE 45 or CDECE 47 Grading: letter grade or pass/no pass

3.0 units

Effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. May be applied to degree, certificate or area of specialization requirements. Transferable to CSU

CDECE 61 (C-ID ECE 230)	3.0 units
Teaching in a Diverse Society D3	
54 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. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. Transferable to CSU

CDECE 66 (C-ID ECE 200) 3.0 units Observation and Assessment DS3 45 hours lecture, 45 hours laboratory Prerequisite: CDECE 50 and CDECE 45 or CDECE 47 Recommended Preparation: CDECE 48 Grading: letter grade

This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play, and learning in order to join with families and professionals in promoting children's success and maintaining quality programs. Recording strategies, rating systems, portfolios, and multiple assessment methods are explored. The course meets state licensing requirements for program curriculum DS3. Proof of current state mandated immunizations and negative TB status are required to participate. Transferable to CSU

CDECE 68 (C-ID ECE 210) 3.0 units Practicum D3

36 hours lecture, 72 hours laboratory

Prerequisite: CDLL 52 and CDECE 19, 48, 50, 53, 61, 66, instructor approval, proof of current state mandated immunizations, negative TB status, and fingerprint clearance are required to participate Grading: letter grade or pass/no pass

Under guided supervision, students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Reflective practice will be emphasized as student teachers design, implement, and evaluate approaches and strategies, and techniques that promote development and learning. Proof of current state mandated immunizations and negative TB status and fingerprint clearance are required to participate. Instructor approval required. According to SB 792, effective September 1. 2016, a person may not be employed or volunteer at a child care center or family child care home unless he or she has been immunized against influenza, pertussis, and measles (Health and Safety Code sections 1596, 7995 (a) (2)). Transferable to CSU

CDECE 259 3.0 units Challenging Behaviors in Early Childhood 54 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 selfimage will be covered. Methods of teaching children friendship skills, feelings vocabulary, problem solving, and anger management are included. Observations at a variety of sites in the community will be required in this course. An additional three to five hours of child observation, outside of regular class hours is required for this course.

CHILD & ADULT DEVELOPMENT-FAMILY DEVELOPMENT (CDF)

CDF 210A Skills/Strat. for Family Workers Pt. 1 54 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	
54 hours lecture	
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.

3.0 units

CHILD & ADULT DEVELOPMENT-FAMILY DAY CARE (CDFDC)

3.0 units

0.0 unit

CDFDC 212A Family Child Care Management A 54 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 54 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.

CDFDC 612A 0.0 unit **Family Child Care Management A** 54 hours lecture Grading: LBCC non-graded course

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 612B Family Child Care Management B 54 hours lecture

Grading: LBCC non-graded course

This course assists persons planning to become or are 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.

CHILD & ADULT DEVELOPMENT-LEARNING LAB (CDLL)

3.0 units Fieldwork/Preschool Techniques 36 hours lecture, 54 hours laboratory

Grading: letter grade or pass/no pass

CDLL 52

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 current state mandated immunizations and negative TB status are required to participate. This course provides the student with 3 units (48 hours lab) of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing. Transferable to CSU

2.0 units CDLL 52B Fieldwork/Preschool Techniques 18 hours lecture, 72 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. Transferable to CSU

0.0 unit **CDLL 603 LBCC Child Development Centers Participation** 108 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 to apply Child Development concepts to guided observations. Particular components, such as the age level, activities, and length of observation will vary and are determined by instructor.

CHILD & ADULT DEVELOPMENT-SPECIAL EDUCATION (CDSED)

CDSED 5

3.0 units

3.0 units

Community Resources/Special Education 54 hours lecture

Grading: letter grade or pass/no pass

This course covers 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.

Transferable to CSU

CDSED 67 Intro to Children with Special Needs

54 hours lecture

Grading: letter grade or pass/no pass

This is a survey course that introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, early intervention as well as the identification and referral process.

Transferable to CSU

CDSED 69

3.0 units

Special Education Practicum 36 hours lecture, 54 hours laboratory

Prerequisite: CDSED 67, 5, 70 and CDECE 45 or 47 and instructor approval, proof of current state mandated immunizations, negative TB status, and fingerprint clearance are required to participate Grading: letter grade

Students will plan, prepare, execute and evaluate various experiences with individuals with special needs in schools and agencies in the greater Long Beach area. Students will learn specific techniques of working with children, adults, parents and staff to provide an appropriate experience for the individual with special needs. There are 54 lab hours required for this course. Proof of current state mandated immunizations and negative TB status and fingerprint clearance are required to participate. Instructor approval required. According to SB 792, effective September 1. 2016, a person may not be employed or volunteer at a child care center or family child care home unless he or she has been immunized against influenza, pertussis, and measles (Health and Safety Code sections 1596, 7995 (a) (2)). Transferable to CSU

CDSED 70 Curriculum for Special Needs 54 hours lecture Grading: letter grade 3.0 units

This course covers curriculum and intervention strategies for working with children with special needs in partnership with their families. Focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Includes the role of the teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence. Transferable to CSU

CHEMISTRY (CHEM)

CHEM 1A (C-ID CHEM 110/CHEM 120S*) 5.5 units General Chemistry

72 hours lecture, 90 hours laboratory

Prerequisite: CHEM 2 or qualifying through the LBCC chemistry assessment process and MATH 130, 130B, 140, or qualifying through the LBCC math assessment process, or one year of high school intermediate algebra with a B or better in the 2nd 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.

Transferable to UC or CSU; see counselor for limitations

CHEM 1B (C-ID CHEM 120S*) 5.5 units General Chemistry 72 hours lecture, 90 hours laboratory Prerequisite: CHEM 1A Grading: letter grade or pass/no pass

5.5 units

This course is the second semester of a one-year course and fulfills the general chemistry requirement for students in science, engineering, physics, pre-dental, premedical, and pre-pharmacy 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, basic physical and organic chemistry and qualitative analysis. Transferable to UC or CSU; see counselor for limitations

CHEM 2 (C-ID CHEM 101) 4.5 units Elementary Chemistry

72 hours lecture, 36 hours laboratory Prerequisite: MATH 110 or MATH 110B or MATH 880 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 or need to refresh knowledge. 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 CHEM 2, once CHEM 1A (or the equivalent course at that school) has been successfully completed. Transferable to UC or CSU; see counselor for limitations

CHEM 3 (C-ID CHEM 102) 5.0 units Intro to Gen, Organic and Biochemistry 72 hours lecture, 54 hours laboratory Prerequisite: MATH 110 or MATH 110B or MATH 880 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 and Allied Health Sciences. This course does not prepare students for CHEM 1A.

Transferable to UC or CSU; see counselor for limitations

CHEM 4 (C-ID CHEM 140) 4.0 units Survey of Chemistry and Physics 54 hours lecture, 54 hours laboratory Prerequisite: MATH 110 or MATH 110A and MATH 110B or higher level math class Grading: letter grade

This is a one semester, inquiry-based physical science course suitable for satisfying the general education requirements of non-science majors and especially of students who aspire to become elementary school teachers. Students construct a meaningful understanding of physics and chemistry concepts through lecture and laboratory activities. The course covers: matter, physical and chemical properties, energy, motion, light, atomic structure, bonding, solutions and chemical reactions. The inter-dependence of chemistry and physics, their applications in everyday life, and the power and limitations of scientific inquiry will be emphasized. Not open to student who already have credit for PHYS 4. Transferable to UC or CSU; see counselor for limitations

CHEM 12A (C-ID CHEM 150/CHEM 160S*) Organic Chemistry 72 hours lecture, 90 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 two-semester sequence of courses which satisfies the Chemistry requirement for science, engineering, and pre-medical or pre-dental majors.

Transferable to UC or CSU; see counselor for limitations

CHEM 12B (C-ID CHEM 160S*)	5.5 units
Organic Chemistry	
72 hours lecture, 90 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

2.0 units

the first semester of a two semester sequence of courses which satisfies the Chemistry requirement for science, engineering, and pre-medical, pre-pharmacy or predental majors.

Transferable to UC or CSU; see counselor for limitations

FOREIGN LANGUAGE, CHINESE (CHIN)

CHIN 1

5.0 units

2.0 units

Elementary Chinese 1 90 hours lecture, 18 hours 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. Transferable to UC or CSU; see counselor for limitations

CHIN 2 5.0 units **Elementary Chinese 2** 90 hours lecture, 18 hours 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) and is designed to further develop students' competency in speaking, listening, reading, and writing. Topics will be placed in the contemporary context of the Chinese world. This course is not recommended for native speakers.

Transferable to UC or CSU; see counselor for limitations

COMPUTER ACADEMY CISCO NETWORKING (CISCO)

CISCO 250 Communications Cabling Installation 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

This course will present the basic skills and knowledge needed to qualify for employment as a communications cabling installer. The course content will include safe use of tools, copper and fiber optic cabling systems, TIA standards, BICSI best practices, and the National

Electrical Code as it applies to low-voltage communications cabling.

CISCO 251 Introduction to Networks 18 hours lecture, 54 hours laboratory Grading: letter grade

This is the first course in a sequence of three that prepares students to pass the Cisco certification exam required to become a Cisco Certified Network Associate (CCNA). The course includes introductions to networking devices, IPv4 and IPv6 addressing schemes, routing and switching concepts, media design and selection, topologies and cabling, electricity and electronics concerns, and network management and troubleshooting approaches. The instruction for this course is based on the Cisco Networking Academy CCNAv7 curriculum.

CISCO 252 **Switching Routing Wireless Essentials** 18 hours lecture, 54 hours laboratory Prerequisite: CISCO 251 Grading: letter grade

2.0 units

This is the second course in a sequence of three that prepares students to pass the Cisco certification exam required to become a Cisco Certified Network Associate (CCNA). The course maintains a focus on configuring switches and routers for use in small and medium size networks, including Virtual Local Area Networks (VLANs), VLAN Trunking, Inter-VLAN Routing, Spanning Tree Protocol (STP), EtherChannel, Dynamic Host Configuration Protocol (DHCP), First Hop Redundancy, LAN and Switch Security, and Static Routing. The course also provides knowledge and skills relating needed to implement a wireless LAN (WLAN). The instruction for this course is based on the Cisco Networking Academy CCNAv7 curriculum.

CISCO 253

2.0 units

Enterprise Network Security Automation 18 hours lecture, 54 hours laboratory Prerequisite: CISCO 252 Grading: letter grade

This is the third course in a sequence of three that prepares students to pass the Cisco certification exam required to become a Cisco Certified Network Associate (CCNA). The course maintains a focus on enterprise size networks for advanced functionality. The course describes the architecture, components, operations and

security to scale for large complex networks, including Wide Area Network (WAN) technologies. The course emphasizes network security concepts and introduces network virtualization and automation. The instruction for this course is based on the Cisco Networking Academy CCNAv7 curriculum.

COMMUNICATION STUDIES (COMM)

COMM 10 (C-ID COMM 110)3.0 unitsElements of Public Speaking54 hours lectureGrading: letter grade or pass/no pass

Students will learn and practice the strategies to manage speech anxiety, and will understand and apply the concepts and skills of effective speaking through the analysis, construction and delivery of various types of speeches. An emphasis is placed on organizing speech content, audience analysis, critical thinking and speech delivery skills.

Transferable to UC or CSU; see counselor for limitations

3.0 units

COMM 10H (C-ID COMM 110) Honors Elements of Public Speaking 54 hours lecture

Prerequisite: Qualification for the Honors Program Grading: letter grade

Students will learn and practice the strategies to manage speech anxiety and will understand and apply the concepts and skills of effective speaking through the analysis, construction and delivery of various types of speeches. An emphasis is placed on organizing speech content, audience analysis, critical thinking and speech delivery skills.

Transferable to CSU

COMM 20 (C-ID COMM 130) 3.0 units Elements of Interpersonal Communication 54 hours lecture

Grading: letter grade or pass/no pass

Formerly SP 20. This course takes an experiential learning approach to understanding the process of communication at both the intrapersonal and interpersonal levels. Time will be devoted to the study of theories, practices and concepts within the field of communication studies including, but not limited to: exploring one's self-concept, the process of perception, language meaning and interpretation, types of nonverbal communication, listening styles and skills, conflict resolution strategies, and electronic and social mediated communication. Transferable to CSU

COMM 25 (C-ID COMM 150)3.0 unitsElements of Intercultural Communication54 hours lectureGrading: letter grade or pass/no pass

Formerly SP 25. 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 value orientations, cultural rules of interaction, verbal and nonverbal intercultural communication. Transferable to UC or CSU; see counselor for limitations

COMM 30 (C-ID COMM 140) 3.0 units Elements of Group Communication 54 hours lecture

Grading: letter grade or pass/no pass

Formerly Speech Communication 30 (SP30), 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.

Transferable to UC or CSU; see counselor for limitations

COMM 31 Elements of Leadership Communication 54 hours lecture Grading: letter grade or pass/no pass

Formerly Speech Communication 31 (SP31), 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. Transferable to CSU

COMM 40 (C-ID COMM 180)3.0 unitsElements of Communication Theory54 hours lectureGrading: letter grade

This course surveys the discipline of communication studies with emphasis on multiple theoretical issues relevant to the systematic inquiry and pursuit of

3.0 units

0.5 unit

knowledge about human communication. This course explores the basic history, assumptions, principles, processes, variables, methods, and specializations of human communication as an academic field of study. Transferable to CSU

COMM 45 (C-ID COMM 190) 3.0 units **Elements of Persuasion** 54 hours lecture Grading: letter grade

This course will examine historical and contemporary approaches to persuasive messages. Students will also focus on the presentation of persuasive appeals and learn to construct, deliver, and critique persuasive messages in various contexts. Transferable to CSU

COMM 50 (C-ID COMM 170) 3.0 units **Elements of Oral Interpretation** 54 hours lecture Grading: letter grade or pass/no pass

Formerly SP 50. The basic principles of oral communication are explored through oral reading of prose, poetry and dramatic literature. Transferable to UC or CSU; see counselor for limitations

COMM 60 (C-ID COMM 120) 3.0 units **Elements of Argumentation and Debate** 54 hours lecture Grading: letter grade or pass/no pass

Formerly Speech Communication 60 (SP 60), 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.

Transferable to UC or CSU; see counselor for limitations

CONSTRUCTION TECHNOLOGY (CONST)

CONST 200

7.0 units

Construction Apprenticeship Readiness 108 hours lecture, 72 hours laboratory Grading: letter grade or pass/no pass

Formerly CARP 211. This class prepares students to enter the Construction Trades in a variety of apprenticeship programs. Students who complete the Multi-Craft Core Curriculum (MC-3) earn the OSHA 10 certificate and also

receive CPR and First Aid certification. The subjects covered include: physical agility, blueprint reading, industry awareness and opportunities in the crafts; introduction to the crafts and their tools (hand and power); tool safety; and the heritage of the American worker. Students will be taken on field trips to Apprenticeship Training Centers and will tour local job sites.

CONST 205 Forklift Fundamentals 9 hours lecture, 9 hours laboratory Grading: pass/no pass

Formerly FORK 801. Forklift Safety and Operation training will provide basic safety and operation of the forklift including lifting principles, load rating, stability, and operation techniques. Students will be required to have a valid California Driver's license to participate and be certified.

CONST 215 3.0 units **Blueprint Reading for Construction Trade** 54 hours lecture

Grading: letter grade or pass/no pass

Formerly CARP 440. This course is designed to provide knowledge of blueprint reading as it relates to the construction and building industry. This course will cover the theory of orthographic projections, reading floor plans, section and elevation drawings, symbols and notations, scaling and dimensioning practices, reading blueprints for structural formation, electrical, mechanical, and plumbing drawings.

CONST 230 **Carpentry Fundamentals** 3.0 units

3.0 units

36 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly CARP 311. This course covers the fundamentals of the building trades. Topics of instruction include safety, building codes, construction mathematics, rough framing, concrete form work and placement, blueprint reading, and technical information on alternative "Green Technology" materials and methods of construction.

CONST 235 **Residential Roof Framing** 36 hours lecture, 54 hours laboratory Recommended Preparation: CONST 230 Grading: letter grade or pass/no pass

Formerly CARP 219. This course covers residential roof framing. Topics of instruction include roof structures, calculations and layout of various rafters, codes requirements, roof construction, and estimating.

3.0 units

CONST 240 Finish Carpentry 36 hours lecture, 54 hours laboratory **Recommended Preparation: CONST 230**

Grading: letter grade or pass/no pass

Formerly CARP 227. This course covers residential interior finishes. Topics of instruction include: drywall installation, taping and texturing; hanging doors and installing door hardware; installing trim, including baseboard, window and door casing, chair rail and wainscot and crown molding, flooring, interior design, estimating, and layout.

CONST 245 3.0 units **Residential Stairs** 36 hours lecture, 54 hours laboratory **Recommended Preparation: CONST 230** Grading: letter grade or pass/no pass

Formerly CARP 222. This course covers residential stairs framing. Topics of instruction include stair design, calculation, layout, and construction.

2.0 units **CONST 250 Home Remodeling Fundamentals** 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly CARP 415A. This course focuses on home improvement projects and introduces the student to basic home remodeling. Topics will include safety, building codes, obtaining building permits, trade related math, hand and power tools, techniques for installing or repairing plumbing fixtures, electrical repairs and upgrades, and energy saving concepts.

CONST 255 2.0 units Home Remodeling-Basic Carpentry 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly CARP 415B. This course focuses on home improvement projects and introduces and identifies the basic hand and power tools used for home remodeling projects. Topics include wood-framed floor systems, wall and ceiling components. The class will review the applicable building codes that deal with the removal of

interior wall partitions. Practical instruction is given in the construction laboratory.

CONST 260 2.0 units **Home Remodeling-Interior Construction** 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly CARP 415C. This course in home remodeling covers interior sub-crafts. Topics of instruction include insulation, drywall, finish trim carpentry, installing cabinets, tile, estimating, and relevant codes. Practical instruction is given in the construction laboratory.

CONST 265 2.0 units **Home Remodeling-Exterior Construction** 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly CARP 415D. This course in Home remodeling covers exterior sub-crafts. Topics of instruction include exterior flashing, roofing, rain gutters, exterior siding, decks, patio and walks. Practical instruction is given in the construction laboratory.

CONST 270 3.0 units **Cost Estimating** 54 hours lecture **Recommended Preparation: CONST 215** Grading: letter grade or pass/no pass

Formerly CARP 230. This course is designed for those individuals needing to produce accurate project estimates; topics will include interpreting project information from a detailed blueprint and processing it into a final detailed estimate.

CONST 275 Contracting Laws and Management 54 hours lecture Grading: letter grade or pass/no pass

Formerly CARP 245. This course is designed for those with construction experience who 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.

CONST 600 **Construction Apprenticeship Readiness** 108 hours lecture, 72 hours laboratory Grading: LBCC non-graded course

0.0 unit

3.0 units

This class prepares students to enter the Construction Trades in a variety of apprenticeship programs. Students who complete the Multi-Craft Core Curriculum (MC-3) earn the OSHA 10 certificate and also receive CPR and First Aid certification. The subjects covered include: physical agility, blueprint reading, industry awareness and opportunities in the crafts: introduction to the crafts and tools (hand and power); tool safety; and the heritage of the American worker.

CONST 6050.0 unitForklift Fundamentals9 hours lecture, 9 hours laboratoryGrading: LBCC non-graded course

Forklift Safety and Operation training will provide basic safety and operation of the forklift including lifting principles, load rating, stability, and operation techniques. Students will be required to have a valid California Driver's license to participate and be certified.

CONST 6060.0 unitWorkplace Competency Skills18 hours lectureGrading: LBCC non-graded course

This competency-based course will provide students an awareness of the skills needed to be successful in the construction industry. Topics include effective workplace communication, problem and conflict resolution, thriving in a diverse workforce, and being an effective team player.

0.0 unit

0.0 unit

CONST 615A Home Remodeling-Tiling 9 hours lecture, 18 hours laboratory Grading: LBCC non-graded course

This course in home remodeling covers technical instruction and practical experience for tiling, marble and granite installation. Topics of instruction include, safety, waterproofing, tiling floors, counter tops, and walls in ceramic, porcelain, marble, and granite and mortar floating. Practical instruction is given in a lab setting.

CONST 615B Home Remodeling-Drywall 9 hours lecture, 18 hours laboratory Grading: LBCC non-graded course

This course in home remodeling covers technical instruction and practical experience for installing and repairing drywall in commercial and residential locations.

Topics of instruction include safety, tools, taping, spackling, compound and hanging techniques for drywall. Students will also learn how to differentiate between LEED approved and non-approved materials.

CONST 615C Home Remodeling-Painting 9 hours lecture, 18 hours laboratory Grading: LBCC non-graded course 0.0 unit

1.0 unit

3.0 units

This course in home remodeling covers basic painting techniques. Topics of instruction include, safety, job site and surface preparation (e.g. cleaning, caulking, sealing); Proper tools; spray-painting equipment; ladder and scaffolding safety; applications to enhance the job

<u>COMPUTER & OFFICE STUDIES, APPL.</u> <u>SOFTWARE (COSA)</u>

through stripping, sponging, and distressing.

COSA 1 Computer Information Competency 18 hours lecture, 18 hours laboratory Grading: letter grade or pass/no pass

Formerly COMIS 1 and CAOTC 211. 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, digital data presentations, and communications applications. This course satisfies the technology component of the Information Competency graduation requirement for Plan A. Transferable to CSU

COSA 2 Critical Thinking Using Computers 54 hours lecture Grading: letter grade or pass/no pass

Formerly CPAS 2. This course will explore the various ways computer technology can be used to enhance critical thinking and information literacy skills. The student will learn to utilize multiple software programs critically to gather, diagnose, synthesize, and present information. Students will develop a fundamental understanding of critical thinking skills such as deductive and inductive reasoning, scientific reasoning, argument analysis and development in the context of computer technology.

Transferable to UC or CSU; see counselor for limitations

COSA 53.0 unitsMicrosoft Windows Operating System54 hours lectureGrading: letter grade or pass/no pass

Formerly CAOTC 31A and COSA 5AD. Students will learn basic to advanced features and concepts of the Microsoft Windows operating system. Topics will include the use of Microsoft applications, Internet technologies, email, maintenance and security. Conceptual materials covered in this course will be balanced with hands-on experience. This course satisfies the technology portion of the information competency requirement. Transferable to CSU

COSA 103.0 unitsMicrosoft Word for Windows54 hours lectureRecommended Preparation: COSA 1Grading: letter grade or pass/no pass

Word processing using Microsoft Word. Students will learn how to edit, format, design, and use layout and customization tools to create documents such as letters, flyers, newsletters, and publications. Upon successful completion of this course, students will be provided with a voucher to take the Microsoft Office Specialist (MOS) industry certification exam. Formerly CAOTC 39A and COSA 10AD.

Transferable to CSU

COSA 153.0 unitsMicrosoft Excel for Windows54 hours lectureRecommended Preparation: COSA 1Grading: letter grade or pass/no pass

Formerly CAOTC 41E and COSA 15AD. Students will learn spreadsheet concepts using Microsoft Excel including formatting, formulas and functions, charts, linked worksheets, and pivot tables. Upon successful completion of this course, students will be provided with a voucher to take the Microsoft Office Specialist (MOS) industry certification exam. Transferable to CSU

COSA 20 Microsoft PowerPoint for Windows 54 hours lecture Recommended Preparation: COSA 1 Grading: letter grade or pass/no pass

3.0 units

Formerly CAOTC 44D and COSA 20AD. This class provides a thorough exploration of presentation graphics software. Skills are developed in planning, creating, formatting, enhancing, and delivering presentations. Through hands-on practice, students learn to combine text and graphic images, animation, sound, and other special effects to develop computerized slide shows. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will receive a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam. Transferable to CSU

COSA 253.0 unitsMicrosoft Access for Windows54 hours lectureRecommended Preparation: COSA 1Grading: letter grade or pass/no pass

Formerly CAOTC 47A and COSA 25AD. Relational databases concepts using Microsoft Access including design fundamentals, creation of tables, queries, forms, and reports are covered. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will be provided with a voucher to take the Microsoft Office Specialist (MOS) industry certification exam. Transferable to CSU

COSA 30 (C-ID ITIS 120)3.0 unitsIntroduction to Computers54 hours lectureS4 hours lectureRecommended Preparation: COSA 1Grading: letter grade or pass/no pass

Formerly CAOTC 34. This is a computer literacy course designed to familiarize the learner with a variety of computer tools and computer concepts with emphasis on utilizing Office Suite programs. This course provides an introduction to the use of computers, common software programs, peripherals, and social media. Students are instructed in the use of a word processor, spreadsheet, presentation tools, and internet applications. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will be given a voucher to sit for the Internet and Computing Core (IC3) industry certification exam. Transferable to CSU

0.0 unit

0.0 unit

3.0 units

4.0 units

COSA 35 **Microsoft Office** 54 hours lecture **Recommended Preparation: COSA 1** Grading: letter grade or pass/no pass

Formerly CAOTC 35. This course studies the concepts and features of Microsoft Office software in today's business office with hands-on application projects. Topics covered include computer concepts, operating system, file management browser fundamentals, MS Word, MS Excel, MS Access and MS PowerPoint. This course satisfies the technology component of the Information Competency requirement for Plan A. Transferable to CSU

COSA 50 (C-ID ITIS 120) Intro to IT Concepts and Applications 72 hours lecture Recommended Preparation: COSA 1

Grading: letter grade or pass/no pass

Formerly CBIS 6A. 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. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam. This course satisfies the technology portion of the Information Competency graduation requirement. Transferable to UC or CSU; see counselor for limitations

3.0 units **COSA 210** Intro to Project Management for IT 54 hours lecture

Recommended Preparation: COSA 50 Grading: letter grade or pass/no pass

Formerly CBIS 436A. This class is an introduction to Project Management. Popular project management software will be introduced. In addition, the class will focus on the methods and techniques for managing projects as well as preparing students for the CompTIA's IT Project+ certification.

COSA 215 3.0 units **Microsoft Outlook for Windows** 54 hours lecture **Recommended Preparation: COSA 1**

Grading: letter grade or pass/no pass

Formerly CAOTC 215A and COSA 215AD. This course provides comprehensive instruction in desktop management software using Microsoft Outlook. Topics include how to compose, format, and send e-mail, manage contacts, plan and track tasks, schedule calendar items, and integrate Outlook with other applications. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam.

COSA 601 **Computer Information Competency** 18 hours lecture, 18 hours laboratory Grading: LBCC non-graded course

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, digital data presentations, and communications applications.

COSA 610 Microsoft Word, Introductory 18 hours lecture Grading: LBCC non-graded course

This course provides hands-on instruction using basic features of Microsoft Word for the PC and its editing, formatting, and language tools to create, format, save, revise, and print various business and report documents.

0.0 unit COSA 611 Microsoft Word. Intermediate 18 hours lecture Grading: LBCC non-graded course

This course provides hands-on instruction using intermediate features of Microsoft Word for the PC and its editing, formatting, and language tools to create, format, save, revise, and print various business and report documents.

COSA 612 **Microsoft Word, Advanced** 18 hours lecture Grading: LBCC non-graded course 0.0 unit

This course provides hands-on instruction using advanced features of Microsoft Word for the PC and its editing, formatting, and language tools to create, format, save, revise, and print various business and report documents.

COSA 615 Microsoft Excel, Introductory 18 hours lecture Grading: LBCC non-graded course	0.0 unit
This course covers beginning spreadsheet c	oncents us

This course covers beginning spreadsheet concepts using Microsoft Excel including formatting, formulas and functions, charts, linked worksheets, and pivot tables.

COSA 6160.0 unitMicrosoft Excel, Intermediate18 hours lectureGrading: LBCC non-graded course

This course covers intermediate spreadsheet concepts using Microsoft Excel including formatting, formulas and functions, charts, linked worksheets, and pivot tables.

COSA 6170.0 unitMicrosoft Excel, Advanced18 hours lectureGrading: LBCC non-graded course

This course covers advanced spreadsheet concepts using Microsoft Excel including formatting, formulas and functions, charts, linked worksheets, and pivot tables.

0.0 unit

COSA 620 Microsoft PowerPoint, Introductory 18 hours lecture Grading: LBCC non-graded course

This course covers basic presentation concepts using Microsoft PowerPoint including combining text and graphic images to develop computerized slide shows, charts, and printed materials for presentations.

COSA 6210.0 unitMicrosoft PowerPoint, Intermediate18 hours lectureGrading: LBCC non-graded course

This course covers intermediate presentation concepts using Microsoft PowerPoint including combining text and graphic images to develop computerized slide shows, charts, and printed materials for presentations. COSA 622 Microsoft PowerPoint, Advanced 18 hours lecture Grading: LBCC non-graded course

This course covers advanced presentation concepts using Microsoft PowerPoint including combining text and graphic images to develop computerized slide shows, charts, and printed materials for presentations.

COSA 625 Microsoft Access, Introductory 18 hours lecture Grading: LBCC non-graded course

This course covers basic database concepts using Microsoft Access including creating and modifying tables, running queries, generating reports, and creating forms.

COSA 6260.0 unitMicrosoft Access, Intermediate18 hours lectureGrading: LBCC non-graded course

This course covers intermediate database concepts using Microsoft Access including creating and modifying tables, running queries, generating reports, and creating forms.

COSA 6270.0 unitMicrosoft Access, Advanced18 hours lectureGrading: LBCC non-graded course

This course covers advanced database concepts using Microsoft Access including creating and modifying tables, running queries, generating reports, and creating forms.

COSA 6280.0 unitMicrosoft Outlook, Introductory18 hours lectureGrading: LBCC non-graded course

This course provides instruction in desktop management using Microsoft Outlook. Topics include how to send and receive e-mail, use email special features, and create contacts.

COSA 6290.0 unitMicrosoft Outlook, Intermediate18 hours lectureGrading: LBCC non-graded course

0.0 unit

0.0 unit

COURSES

322

This course provides instruction in intermediate Outlook tasks. Students will learn how to plan and track tasks, schedule calendar items, and create rules to manage their Inbox.

COSA 6300.0 unitMicrosoft Outlook, Advanced18 hours lectureGrading: LBCC non-graded course

This class provides instruction in advanced functions of Microsoft Outlook. Through hands-on practice, student learn to share and manage multiple calendars, import and export contacts, archive and adjust security options, and customize Outlook components.

COSA 6500.0 unitIntro. to IT Concepts & Applications72 hours lectureRecommended Preparation: COSA 601Grading: LBCC non-graded course

This course is an introduction to information systems and the common use of office applications. Internet, Word processing, spreadsheets, databases, presentation software, and basic internet use will be covered. Spreadsheet use for business will be emphasized. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam. This course satisfies the technology portion of the Information Competency graduation requirement.

<u>COMPUTER & OFFICE STUDIES, WORK</u> <u>EXPERIENCE(COSE)</u>

COSE 271WE

1.0 – 4.0 units

Work Experience-Comp & Office Studies 72 hours laboratory

Prerequisite: Prior approval by COS department faculty and compliance with work experience regulations as designed in the college catalog Grading: letter grade or pass/no pass

Students learn and gain on-the-job experience in a computer networking, information technology, or cyber security related field. Learning objectives are established collaboratively by the student, supervisor, and instructor. A minimum of sixty (60) hours of non-paid work or seventy-five (75) hours of paid work during the semester are required for each unit of credit. Students may earn from 1 to 4 units credit. Students may re-enroll up to 4 times (semesters). Prior approval from COS Department faculty and compliance with Work Experience regulations as designated in the College Catalog is required.

COMPUTER & OFFICE STUDIES, KEYBOARDING(COSK)

COSK 200	3.0 units
Keyboarding and Document Production	
54 hours lecture	
Grading: letter grade or pass/no pass	

Formerly CAOTT 200. 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. This course satisfies the technology component of the Information Competency graduation requirement.

COSK 2091.0 unitSpeed/Accuracy Bldg. for Typists18 hours lecture, 18 hours laboratoryRecommended Preparation: COSK 200 or COSK 233Grading: letter grade or pass/no pass

Formerly CAOTT 209AB and COSK 209AD. This intermediate- to advanced-level course is designed to increase keying speed and accuracy to desired employment levels.

COSK 2331.0 unitComputer Keyboarding Skills18 hours lecture, 18 hours laboratoryGrading: letter grade or pass/no pass

Formerly CAOTT 233 and COSK 233AD. 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.

COSK 633 Computer Keyboarding Skills 18 hours lecture, 18 hours laboratory Grading: LBCC non-graded course

This course is designed to develop touch control of the computer keyboard for personal use. Emphasis is placed

0.0 unit

on proper typing and inputting techniques and building basic speed and accuracy.

4.0 units

<u>COMPUTER & OFFICE STUDIES,</u> NETWORKING, & OS(COSN)

COSN 5 (C-ID ITIS 110) Computer Hardware Fundamentals 72 hours lecture Recommended Preparation: COSA 50 Grading: letter grade or pass/no pass

Formerly CBIS 200. This course provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level ICT professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional will be introduced. Preparation for the CompTIA A+ certification exams. Transferable to CSU

COSN 10 (C-ID ITIS 150)3.0 unitsNetworking Fundamentals54 hours lectureGrading: letter grade or pass/no pass

Formerly CBIS 41. 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, wireless networks, communications protocols, network topologies, transmission media, security, and assessment of career opportunities in networking. This class maps to the CompTIA Network+ certification. In addition, upon successful completion of this course, students will be given a voucher to sit for the Microsoft Technology Associate (MTA) industry certification exam. Transferable to CSU

COSN 2003.0 unitsWireless and Mobile Devices54 hours lectureCorequisite: COSN 10Grading: letter grade or pass/no pass

Formerly CBIS 212. In this class the student will learn how to install, use, and manage popular wireless technologies such as WiFi, WiMax, and Bluetooth. They will build on the knowledge from COSN 10 to understand how mobile devices connect to the larger network infrastructure through various wireless technologies. Students will have hands on experience installing, trouble shooting, managing, securing, backing up and upgrading Android, IOS, Windows and other mobile devices.

COSN 2054.0 unitsUNIX/LINUX Fundamentals72 hours lectureRecommended Preparation: COSA 50Grading: letter grade or pass/no pass

Formerly CBIS 223. This course trains students to use the Linux operating system as an alternative to other operating systems for managing files, running applications, and developing application procedures. Course topics include an overview of basic operating system concepts, a history of UNIX and its influence on modern operating systems, basic internal operating system structure, details of UNIX/Linus file system structures, pipes, filters and redirection, scripts, processes, shells, and UNIX/Linux utilities. Completion of this course qualifies students for COSN 210, Linux System Administration.

COSN 2063.0 unitsScripting Fundamentals54 hours lectureRecommended Preparation: COSN 205Grading: letter grade or pass/no pass

This course offers an in-depth introduction to scripting languages including basic data types, control structures, regular expressions, input/output, and textual analysis. Students will use popular scripting languages in a Windows and Linux environment.

COSN 2104.0 unitsLINUX Server Administration72 hours lectureRecommended Preparation: COSN 205Grading: letter grade or pass/no pass

Formerly CBIS 235A and COSN 210AD. 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 systems 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 CompTIA Linux+ or LPI certifications.

COSN 215	4.0 units
LINUX Networking and Security	
72 hours lecture	
Recommended Preparation: COSN 205 or	- COSN 210
Grading: letter grade or pass/no pass	

Formerly CBIS 235B and COSN 215AD. This is an advanced Linux operating system course. 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.

COSN 2253.0 unitsMicrosoft Windows Client54 hours lectureS4 hours lectureRecommended Preparation: COSN 10Grading: letter grade or pass/no pass

Formerly CBIS 226. In this class, students will install, configure and administer Windows OS. They will install and upgrade client systems, manage file systems and devices and perform system maintenance. The class will prepare the student to take the corresponding MTA Certification Exam.

COSN 2304.0 unitsMicrosoft Windows Server72 hours lectureRecommended Preparation: COSN 225

Grading: letter grade or pass/no pass

Formerly CBIS 227. In this class, students will install, configure and administer Windows Server Operating System. The class will prepare the student to take the corresponding MTA Certification Exam.

COSN 250

3.0 units

Cloud Computing in Amazon Web Services 54 hours lecture

Recommended Preparation: COSA 50 Grading: letter grade or pass/no pass

This course introduces cloud computing which shifts information systems from on-premises computing infrastructure to highly scalable internet architectures. The course provides a solid foundation of cloud computing technologies and provides students with the understanding required to effectively evaluate and assess the business and technical benefits of cloud computing and cloud applications. Students analyze a variety of cloud services (storage, servers and software applications) and cloud providers. Case studies will be used to examine various industry cloud practices and applications. The course also surveys cloud careers and discusses industry demand for cloud skills.

COSN 2513.0 unitsDatabase Essentials in Amazon Web Services54 hours lecture

Recommended Preparation: COSN 250 Grading: letter grade or pass/no pass

This course addresses cloud database management which supports a number of different approaches for storing data. In the course, students define, operate and scale both SQL and noSQL data storage solutions. This course considers factors that should be balanced during the design of a storage solution. Principles are applied by performing exercises using Amazon RDS and SQL to create and fill tables, retrieve and manipulate data. Object-based APIs are used to serialize objects to Amazon DynamoDB for noSQL solutions. Topics include automated backups, transaction logs, restoration and retention.

COSN 252 3.0 units App Development in Amazon Web Services 54 hours lecture

Recommended Preparation: COSN 250 Grading: letter grade or pass/no pass

In this course, students explore how cloud computing systems are built using a common set of core technologies, algorithms, and design principles centered around distributed systems. Students will use the Amazon Web Services (AWS) Management Console to provision, load-balance and scale their applications using the Elastic Compute Cloud (EC2) and the AWS Elastic Beanstalk. The course discusses, from a developer perspective, the most important reasons for using AWS and examines the underlying design principles of scalable cloud applications.

COSN 253

3.0 units

Security in Amazon Web Services 54 hours lecture Recommended Preparation: COSN 250 Grading: letter grade or pass/no pass

This course focuses on protecting the confidentiality, integrity and availability of computing systems and data. Students learn how Amazon Web Service (AWS) uses redundant and layered controls, continuous validation

and testing, and a substantial amount of automation to ensure the underlying infrastructure is continuously monitored and protected. Students examine the AWS Shared Responsibility Model and access the AWS Management Console to learn more about security tools and features provided by the AWS platform.

COSN 299

4.0 units

Security and Networking Capstone 72 hours lecture

Prerequisite: COSS 271 or COSN 225 or COSN 205 Grading: letter grade or pass/no pass

This capstone course focuses on tying together the skills, knowledge and abilities students have developed throughout the Associate of Science in Computer Security and Networking degree program. Students will build, configure, manage and secure a mock IT infrastructure including routers, switches, desktop computers, mobile devices, directory services, web services, database services, VPN services, and virtualization. Students will use Microsoft, UNIX-based and mobile operating systems to complete their project.

COSN 6050.0 unitComputer Hardware Fundamentals72 hours lectureRecommended Preparation: COSA 650Grading: LBCC non-graded course

This course provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level ICT professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional will be introduced. Preparation for the CompTIA A+ certification exams.

COMPUTER & OFFICE STUDIES, PROGRAMMING(COSP)

COSP 7 (C-ID COMP 112/ITIS 110)4.0 unitsProgramming Concepts and Methodologies72 hours lecture

Recommended Preparation: COSA 50 Grading: letter grade or pass/no pass

Formerly CBIS 7. This course is an introduction to programming concepts and methodologies including syntax, structured design, debugging, variables identifiers, flowchart and simple UML design, programming error detection, extracting and manipulating data from arrays, array sorting with passing parameter and augmenting test data. Transferable to UC or CSU; see counselor for limitations

COSP 84.0 unitsVisual Basic Programming72 hours lectureRecommended Preparation: COSA 50Grading: letter grade or pass/no pass

Formerly CBIS 8B. The class introduces students to the development of information systems using Visual Basic .NET language. The following programming concepts are covered: the software life-cycle, .Net IDE, data types, control structures, methods, strings and arrays, object-oriented programming, GUI design and development, file I/O, database and ASP. Students should have completed a 3-unit computer concepts and applications course such as COSA 50 as preparation for this course.

Transferable to UC or CSU; see counselor for limitations

COSP 10 Introduction to C# Programming

4.0 units

72 hours lecture Recommended Preparation: COSP 7 Grading: letter grade or pass/no pass

Formerly COSP 216. 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. Students should have completed the COSP 7 course or equivalent as preparation for this course. Transferable to CSU

COSP 36 (C-ID ITIS 140)4.0 unitsSystems Analysis and Design72 hours lectureBecommended Preparation: COSA 50 and COSP 38

Recommended Preparation: COSA 50 and COSP 38 Grading: letter grade or pass/no pass

Formerly CBIS 36. This course covers the broad concepts and methods of system 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. Students should have completed the COSA 50 and COSP 38 courses or

equivalent as preparation for this course. Transferable to CSU

COSP 38 (C-ID ITIS 180) Database Concepts 4.0 units

3.0 units

72 hours lecture Recommended Preparation: COSA 50 Grading: letter grade or pass/no pass

Formerly CBIS 38. 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. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Technology Associate (MTA) industry certification exam. Transferable to CSU

COSP 2011.0 unitMobile App Development18 hours lecture18 hours lectureRecommended Preparation: COSA 1Grading: letter grade or pass/no pass

This course is an introduction to building apps for Android devices, including Android phones and tablets, using MIT App Inventor or other App development tools. This course does not require previous programming skills. The student will learn how to design and develop an app and use will use visual program blocks to specify the app's behavior. Students will do several assignments intended to teach app development followed by a final project.

COSP 230 Android App Development in Java 54 hours lecture

Prerequisite: CS 21 or CS 11 Grading: letter grade or pass/no pass

This is a course that will teach the professional level of skills and practices needed to develop and publish a variety of types of applications or Apps on Android phones and tablets. Students should be able to design, develop, and test their own professional quality Apps by the end of the course. COSP 237 Database Programming with SQL 72 hours lecture Recommended Preparation: COSP 38 Grading: letter grade or pass/no pass

This course offers students an introduction to database programming concepts and techniques. The class covers the concepts of both relational and object relational databases through the SQL (Structured Query Language). Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. In addition, students learn to create SQL blocks of application code that can be shared by multiple forms, reports, and data management applications.

<u>COMPUTER & OFFICE STUDIES,</u> <u>SECURITY(COSS)</u>

COSS 2701.0 unitInformation Security Fundamentals18 hours lectureGrading: letter grade or pass/no pass

Formerly CBIS 270. In this course, you will learn how to protect yourself from identity theft and personal computer attacks. This course is for anyone with basic computer skills. Learn how to protect yourself from hackers, phishers, and anyone else who is trying to "snoop" into your personal information.

COSS271(C-ID ITIS 160)3.0 unitsNetwork Security Fundamentals54 hours lectureRecommended Preparation: COSN 10 and COSS 270

Recommended Preparation: COSN 10 and COSS 270 Grading: letter grade or pass/no pass

Formerly CBIS 271. Network Security Fundamentals provides a comprehensive overview of network security and prepares students 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.

COSS 272 (C-ID ITIS 165)3.0 unitsComputer Forensics and Investigation5454 hours lectureRecommended Preparation: COSN 5Grading: letter grade or pass/no pass

327

4.0 units

This course offers an introduction into computer forensics, investigating computer crimes and data recovery. Topics covered in this course include a process for investigating cyber-crime and procedures for collecting, analyzing, recovering and preserving forensic evidence.

COSS 273 (C-ID ITIS 164)4.0 unitsEthical Hacking and Countermeasures72 hours lecturePercommended Proparation: COSS 271

Recommended Preparation: COSS 271 Grading: letter grade or pass/no pass

This course will prepare students to perform network hacking and implement appropriate countermeasures. Students will also explore the ethical questions surrounding network and system penetration. This course covers topics such as using network penetration tools, techniques for identifying system vulnerabilities and exploiting those vulnerabilities to compromise systems and data.

COSS 2803.0 unitsCybersecurity Competition Fundamentals54 hours lectureRecommended Preparation: COSA 50Grading: letter grade or pass/no pass

This course prepares students to mentor and participate in various cybersecurity competitions including but not limited to CyberPatriot. Topics include cybersecurity basics, operating system installation and hardening, Windows and Linux administration, and networking fundamentals.

COMPUTER & OFFICE STUDIES,WEB DEVELOP (COSW)

4.0 units

COSW 10 Beginning Website Development 72 hours lecture Recommended Preparation: COSA 1 Grading: letter grade or pass/no pass

Formerly CBIS 207AD and CBIS 211AD and COSW 10AD. This course introduces the fundamental skills needed to design, develop and publish websites using industry standard software. Students will create websites by coding in HTML and CSS and incorporate web design principles such as site planning, usability and accessibility standards. Topics covered include formatting text, creating hyperlinks, building navigation menus, inserting images and other media, creating tables, creating forms, using CSS for layout and design, and understanding the purpose of responsive web development. Students should have completed a basic computer concepts course such as COSA 1 as preparation for this course. Transferable to CSU

COSW 20	4.0 units
Front End Website Development	
72 hours lecture	
Recommended Preparation: COSW 10	
Grading: letter grade	

Formerly CBIS 207E. This course develops knowledge in modern front-end web development skills including intermediate level HTML/CSS, mobile websites, responsive web development, CSS frameworks, jQuery, accessibility, usability and emerging web development trends/tools. Students are encouraged to have a basic knowledge of web development from COSW 10 or equivalent in preparation for this course. Transferable to CSU

COSW 30

Web Development with PHP/MySQL 72 hours lecture

Recommended Preparation: COSP 38 and COSW 10 Grading: letter grade or pass/no pass

This course covers PHP & MySQL, one of the most popular technology combinations for developing interactive Web sites. It is designed to provide students with a real-world experience in developing database driven website programming concepts for personal and small business needs. Students write PHP code to interact with data stored in a database including record creation, update, deletion and retrieval. Emphasis will be placed on creating web forms, searching databases, and session management. It is recommended that students enter this course with beginning knowledge of Web development concepts including HTML and CSS.

COSW 200

4.0 units

4.0 units

Introduction to JavaScript and jQuery 72 hours lecture Recommended Preparation: COSA 50

Grading: letter grade or pass/no pass

This course provides an overview of client-side programming using JavaScript, variables, arrays, functions, event handlers, objects, form validation, cookies, and the DOM. Introduces Web 2.0 technologies, Ajax (Asynchronous JavaScript and XML and JSON), and it is an introduction to using popular libraries including jQuery.

4.0 units

COSW 230 Web Development Frameworks 72 hours lecture

Recommended Preparation: COSW 10 and COSW 200 Grading: letter grade or pass/no pass

This course is an introduction to modern web development frameworks and is intended for students with prior web development knowledge. Students will learn a web development framework, programming concepts, syntax and data management. Installation and setup, unit testing, structure of the web development framework, debugging tools, module/component creation, application deployment, and code repositories will be covered. Students should have working knowledge of at least one programming language (preferably JavaScript) and have an intermediate level of understanding of HTML and CSS as preparation for this course.

COSW 240 3.0 units Intro to Content Management Systems 54 hours lecture

Recommended Preparation: COSW 10 Grading: letter grade or pass/no pass

Students will create and manage websites using popular web-based content management systems (CMS) such as WordPress, Drupal, and/or Joomla. This course introduces fundamental concepts of CMS administration including installation, setup, management of user accounts, and security. Students will design a site, create navigation, integrate with social media, publish diverse content, and optimize content for search engine optimization (SEO) purposes.

COUNSELING/GUIDANCE (COUNS)

1.0 unit

COUNS 1 **Orientation for College Success** 18 hours lecture Grading: letter grade or pass/no pass

This course is recommended for all students and is 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,

and 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.

Transferable to UC or CSU; see counselor for limitations

COUNS 2 Making a Difference with Mentoring 54 hours lecture

3.0 units

Grading: letter grade or pass/no pass

This is an experiential course where students explore the altruistic principles and techniques of transformative mentoring. Emphasis is placed on objective problem solving and the development of effective attending skills. Students evaluate mentoring, first year experience, and student development theories with the goal of promoting the academic and psychosocial factors that contribute to college and life success. Campus and community resources will be discussed and explored. Transferable to CSU

COUNS 7 **College and Professional Success** 54 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. Transferable to CSU

COUNS 48 **Career Exploration** 18 hours lecture Grading: letter grade or pass/no pass

Transferable to CSU

1.0 unit

3.0 units

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.

COUNS 49	2.0
College Study Techniques	
36 hours lecture	
Grading: letter grade or pass/no pass	

units

3.0 units

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. Transferable to CSU

COUNS 49A	1.0 unit
College Study Techniques	
18 hours 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. Transferable to CSU

COUNS 50 Career Planning and College Success 54 hours lecture Grading: letter grade or 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. Applying psychological, sociological, and physiological concepts, students will explore, identify, and establish personal, career, and educational goals. Students will be empowered to take charge of their academic and career decisions through the integration of career development and educational planning process. Topics include: intensive career investigation; assessment of interests, personality, skills, values, and other personal qualities that coincide with educational planning and career identification; application of college readiness; decision-making; time management; goal setting; learning and life management strategies; application of career and lifespan development theory;

and resume development, job search and other career building techniques. Transferable to UC or CSU; see counselor for limitations

COUNS 6500.0 unitCareer Planning and College Success54 hours lectureGrading: LBCC non-graded course

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. Applying psychological, sociological, and physiological concepts, students will explore, identify, and establish personal, career, and educational goals. Students will be empowered to take charge of their academic and career decisions through the integration of career development and educational planning process. Topics include: intensive career investigation; assessment of interests, personality, skills, values, and other personal qualities that coincide with educational planning and career identification; application of college readiness; decision-making; time management; goal setting; learning and life management strategies; application of career and lifespan development theory; and resume development, job search and other career building techniques.

COUNS 800 Employment Skills and Self Concept 18 hours lecture Grading: pass/no pass

1.0 unit

This is an introductory course designed to assist students in understanding personal qualities in relationship to life and career skills required to succeed in the 21st Century world of work. The goal is for students to recognize the required essential skills for finding employment in today's world and keeping it. Course topics include personality assessment of strengths and weaknesses, recognizing strengths and self-worth, developing job search skills, and developing a career or employment search portfolio.

COUNS 855 Strategies for Academic Success 9 hours lecture Grading: pass/no pass 0.5 unit

This course is designed for students who have been scholastically dismissed from Long Beach City College and will focus on developing strategies and skills to improve status. Topics to be covered will include the policy definition of Academic and Progress Probation as well as dismissal and the readmission process, approaches to dealing with obstacles to success and possible solutions, review of student support services, academic resources and services, goal setting, strategies for academic success, and educational planning leading to student success.

COUNS 898A EXP: Educational Planning 9 hours lecture Grading: pass/no pass

This course is designed to provide students with an in depth understanding of the components and importance of educational planning. Students will receive an overview of certificates, graduation and transfer requirements. Upon successful completion of this course, students will develop an individual student educational plan (SEP) reflecting their educational goal. This course is strongly recommended for first-time students with declared majors.

COMPUTER SCIENCE (CS)

4.0 units

4.0 units

0.5 unit

CS 11 (C-ID COMP 122) Introduction to Computer Science- C++ 72 hours lecture Prerequisite: MATH 110 or MATH 110B or first year high

school algebra of a grade of C or better **Recommended Preparation: COSP 7** 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. Transferable to UC or CSU; see counselor for limitations

CS 12 Advanced Computer Science-C++ 72 hours lecture Prerequisite: CS 11 Grading: letter grade

This is the second course in C++ course offerings, which includes further explanation of C++ areas such as data types, input/output, data structures, pointers and accessing files and object-oriented programming, object hierarchy, inheritance, data abstraction, templates,

recursion, operator overloading, linked lists, stacks and queues, and streams.

Transferable to UC or CSU; see counselor for limitations

CS 21 (C-ID COMP 122) 4.0 units **Introduction to Computer Science-Java** 72 hours lecture **Recommended Preparation: COSP 7** Grading: letter grade

This course introduces Computer Science and the Java programming language. It will cover the basics of programming and software design using a procedureoriented approach. Transferable to UC or CSU; see counselor for limitations

3.0 units

CS 22 (C-ID COMP 132) **Data Structures and Algorithms** 54 hours lecture Prerequisite: CS 21 or CS 11 Grading: letter grade

This course covers the application of software engineering techniques for the design and development of large programs, and will include the topics of data abstraction and structures with their associated algorithms.

Transferable to UC or CSU; see counselor for limitations

CS 31 (C-ID COMP 122) 4.0 units Introduction to Computer Science-Python 72 hours lecture **Recommended Preparation: COSP 7** Grading: letter grade

This is an introductory course in Computer Science covering basic subjects in computer programming using the Python programming language. Topics covered include basic input/output, decision structures, loops, functions, operations on text strings, data collection structures (lists, sets, tuples, and dictionaries), and software design using a procedure-oriented approach. Transferable to UC or CSU; see counselor for limitations

CS 51 (C-ID COMP 142) 4.0 units Introduction to Computer Architecture 72 hours lecture

Prerequisite: COSP 8 or CS 11 or CS 21 and Math 50 Grading: letter grade

This course covers the organization and behavior of real computer systems at the assembly-language level. The mapping of statements and constructs in a high-level

language onto sequences of machine instructions is studied, as well as the internal representation of simple data types and structures. Numerical computation is examined, noting the various data representation errors and potential procedural errors. This course is modeled after the State C-ID COMP 142 course standard. Transferable to UC or CSU; see counselor for limitations

CS61 (C-ID COMP 152)4.0 unitsDiscrete Structures72 hours lecturePrerequisite: MATH 130 and either COSP 8 or CS 11 or CS21

Grading: letter grade or pass/no pass

This course is an introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include: Functions, Relations and Sets; Basic Logic; Proof Techniques; Basics of Counting; Graphs and Trees; and Discrete Probability. Transferable to CSU

CULINARY ARTS (CULAR)

CULAR 10 (C-ID HOSP 100) Intro to Hospitality 54 hours lecture Grading: letter grade 3.0 units

This course is an overview of the hospitality industry's structure; Focus on customer service, cultural/economic trends and career opportunities in restaurants, lodging, resorts, and related food service operations. Note: Proof of TB clearance is required on the first day of class. Transferable to CSU

CULAR 20 (C-ID HOSP 110)2.0 unitsApp. Food Serv. Sanit in Hotel/Rstr. Mgmt.36 hours lectureGrading: letter grade

Formerly CULAR 20AD. This course introduces students to food safety and sanitation issues facing professionals in the food and beverage industry. The course serves as a foundation for the entire Culinary/Baking Program by helping students ascertain a thorough understanding of food safety and sanitation. The course is based on regulatory code and covers major foodborne illnesses, standards, process controls, and food safety management systems, such as HACCP. To successfully complete the course, students are required to demonstrate knowledge by successfully passing a Nationally Accredited Food Protection Manager Certification Exam. Note: Proof of TB clearance is required on the first day of class. Transferable to CSU

CULAR 30 (C-ID HOSP 120) Cost Control in Hospitality 54 hours lecture Grading: letter grade 3.0 units

This course is an overview of applying cost control techniques in managing food, beverages and labor expense to maximize profit. Topics include: Menu costing and pricing, expense and income statement analysis, purchasing and storage control, loss prevention and waste management. Note: Proof of TB clearance is required on the first day of class. Transferable to CSU

CULAR 90 (C-ID HOSP 130/HOSP 160)4.0 unitsIntro to Culinary Skills & Principles36 hours lecture, 126 hours laboratoryCorequisite: CULAR 20Grading: letter grade

Formerly CULAR 202. The fundamental concepts, skills, and techniques involved in basic cookery are covered in this course: ingredients, cooking theories, preparation of stocks, mother sauces, and emulsions, knife skills, vegetables and starches, and meat and poultry prepared using basic cooking techniques (sautéing, roasting, poaching, braising, and frying). Students must pass a practical exam on a variety of cooking techniques. Note: Proof of TB clearance is required on the first day of class. Transferable to CSU

CULAR 2113.0 unitsIntermed. Culinary Skills & Principles36 hours lecture, 72 hours laboratoryPrerequisite: CULAR 20 and (CULAR 90 or CULAR 202)Grading: letter grade

This course provides students with skills and knowledge of the organization, equipment and responsibilities of the "cold kitchen". Cold hors d'oeuvres, sandwiches, salads, and basic charcuterie items are taught. Reception foods and buffet arrangements are introduced. Students must pass a written and practical exam. Note: Proof of TB clearance is required on the first day of class.

CULAR 212 5.5 units Classical Cuisine 45 hours lecture, 180 hours laboratory Prerequisite: CULAR 20, CULAR 211 and (CULAR 90 or CULAR 202) Grading: letter grade

In this course students are introduced to the techniques, ingredients, methods, and spices unique to Classical European Cuisine. Classic principles and techniques in preparing course meals are practiced and emphasized. Note: Proof of TB clearance is required on the first day of class.

CULAR 215 2.0 units Buffets and Catering 36 hours lecture, 27 hours laboratory Prerequisite: CULAR 20, CULAR 211 and (CULAR 90 or CULAR 202) Grading: letter grade

This course is designed to instruct students on various types and levels of food presentation and cooking. From large buffets to small intimate dinner events, students learn to develop menu items, select cooking methods, formulate presentation styles and control costs. This includes event planning, catering costing, and food preparation methodology. Note: Proof of TB clearance is required on the first day of class.

CULAR 2163.0 unitsWorld Cuisines: American Regional36 hours lecture, 72 hours laboratoryPrerequisite: CULAR 20 and (CULAR 90 or CULAR 202)Grading: letter grade

American Regional cuisine explores the use of indigenous ingredients in the preparation of traditional and contemporary American specialties from Hawaii to Florida, with stops in the Pacific Northwest, Texas, and New England along the way. Note: Proof of TB clearance is required on the first day of class.

CULAR 217

2.0 units

Vegetarian & Specialty Cuisine 18 hours lecture, 54 hours laboratory

Prerequisite: CULAR 20 and (CULAR 90 or CULAR 202) Grading: letter grade

This course provides the knowledge to understand the principles of vegetarian, vegan, raw food, and specialty cuisines. Topics will include how to combine non-meat proteins, prepare raw foods, and make substitutions for

low fat, low sugar, gluten-free, and other allergy-based dietary restrictions. Note: Proof of TB clearance is required on the first day of class.

CULAR 218 3.0 units World Cuisines: Asian 36 hours lecture, 72 hours laboratory Prerequisite: CULAR 20 and (CULAR 90 or CULAR 202) Grading: letter grade

Students prepare, taste, serve, and evaluate traditional, regional dishes of the cuisines of India, the four regions of China, Japan, Vietnam, Thailand, and Indonesia. Importance will be placed on ingredients, flavor profiles, preparations, and techniques representative of these cuisines. Note: Proof of TB clearance is required on the first day of class.

CULAR 2193.0 unitsWorld Cuisines: Mediterranean36 hours lecture, 72 hours laboratoryPrerequisite: CULAR 20 and (CULAR 90 or CULAR 202)Grading: letter grade

This course emphasizes the influences and ingredients that create the unique character of Mediterranean cuisine. Students prepare, taste, serve, and evaluate traditional, regional dishes of countries in the Mediterranean region. Ingredients, flavor profiles, and techniques representative of these cuisines will be stressed. Note: Proof of TB clearance is required on the first day of class.

CULAR 222A 4.0 units Advanced Restaurant Operations 72 hours lecture Prerequisite: CULAR 20, CULAR 211 and (CULAR 90 or CULAR 202) Grading: letter grade

This capstone course covers the fundamental principles of front- and back-of-house operations in a restaurant setting including: equipment and station set-up, cost control, inventory, menu development, Point of Sale (POS) system, dining room service, hospitality management, and marketing. Note: Proof of TB clearance is required on the first day of class.

CULAR 222B

COURSES

4.0 units

2.0 units

3.0 units

Advanced Restaurant Practicum 216 hours laboratory Prerequisite: CULAR 20, CULAR 211 and (CULAR 90 or CULAR 202) Grading: letter grade

This capstone course gives students real-time hands-on professional restaurant experience via LBCC's full-service student-run Bistro. Rotating between the kitchen and dining room, students learn how to set-up stations, create, prepare, and serve made-to-order dishes, dining room set-up and décor, manage beverage services and customer service/relations. Note: Proof of TB clearance is required on the first day of class.

CULAR 225 Product and Menu Development 36 hours lecture Grading: letter grade

This course provides the basic knowledge of food composition, ingredients, and their functions. Students will learn how to create food products and develop menus by blending flavors with various cooking and baking techniques or by ingredient substitution. Note: Proof of TB clearance is required on the first day of class.

CULAR 2502.0 unitsCulinary Skills for Baking Students18 hours lecture, 54 hours laboratoryCorequisite: CULAR 20Grading: letter grade

This course introduces the Baking and Pastry student to basic culinary skills and principles in order to build foundational skills, outside of his or her specialty. This includes knife cuts, basic sauce making, sautéing, poaching, braising and steaming. Note: Proof of TB clearance is required on the first day of class.

DANCE (DANCE)

DANCE 1 Dance Forms Through the Ages 54 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. Transferable to UC or CSU; see counselor for limitations DANCE 2

Introduction to Dance 27 hours lecture, 27 hours laboratory

Grading: letter grade or pass/no pass

This course introduces the basic dance techniques of ballet, modern, and jazz dance. It is recommended for students with no dance experience. Transferable to CSU

DANCE 3 Musical Theatre Dance 27 hours lecture, 27 hours laboratory

2.0 units

2.0 units

Corequisite: One of the following-DANCE 2 or 3 or 5 or 6 or 8 or 11 or 12A or 13 or 14 or 15 or 16 or 17 or 18A or 18B or 20 or 21 or 24 or 26 or 27 or 28 or 29 or 4 Recommended Preparation: DANCE 12A or DANCE 12B Grading: letter grade or pass/no pass

Formerly DANCE 3AD. 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 emphasizing creating character through movement. Transferable to UC or CSU; see counselor for limitations

DANCE 5 Tap Dance 1

2.0 units

2.0 units

27 hours lecture, 27 hours laboratory Grading: letter grade or pass/no pass

Formerly DANCE 5AB. 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. Transferable to UC or CSU; see counselor for limitations

DANCE 6 Tap Dance 2 27 hours lecture, 27 hours laboratory Recommended Preparation: DANCE 5 Grading: letter grade or pass/no pass

Formerly DANCE 6AB. 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.

Transferable to UC or CSU; see counselor for limitations

DANCE 8 Stretch and Relaxation 27 hours lecture, 27 hours laboratory Grading: letter grade or pass/no pass 2.0 units

2.0 units

2.0 units

Formerly DANCE 8AD. This course includes the study and practice of stretching and breathing principles for increased flexibility, reduction of stress and improved mental and physical health. The course may include elements of yoga, Pilates, Gyrokinesis[®], and dance. Transferable to UC or CSU; see counselor for limitations

DANCE 12A Pilates 1 27 hours lecture, 27 hours laboratory

Grading: letter grade or pass/no pass

Formerly DANCE 12AD. This course will include basic elements from Pilates focusing on mat work, ball, magic circle, theraband, foam roller and Reformer exercises. The course will include basic anatomy, Pilates terminology, alignment, breath, strength and flexibility exercises. This course is designed to enhance dance technique and performance and prevent injuries. Transferable to CSU

DANCE 12B Pilates 2 27 hours lecture, 27 hours laboratory

Recommended Preparation: DANCE 12A Grading: letter grade or pass/no pass

This course will include Intermediate to Advanced elements from Pilates with a Dance Specialization focusing on challenging mat work, ball, magic circle, theraband, foam roller and Reformer exercises. The course will include basic anatomy, Pilates terminology, spinal alignment, breathing patterns, strength and flexibility exercises. Emphasis will be put on spinal and pelvic alignment, breathing to relieve stress and allow adequate oxygen flow to the muscles, while developing a strong core and improving coordination and balance. Transferable to CSU

DANCE 13 Turns

2.0 units

2.0 units

2.0 units

27 hours lecture, 27 hours laboratory Prerequisite: DANCE 14 or DANCE 20 or DANCE 26 Grading: letter grade or pass/no pass

Formerly DANCE 13AD. This course includes the practice and study of beginning to advanced turns for modern, ballet and jazz dance.

Transferable to UC or CSU; see counselor for limitations

DANCE 14 Modern Dance 1 27 hours lecture, 27 hours laboratory Grading: letter grade or pass/no pass

Formerly DANCE 14AB. This course emphasizes dance technique, musicality, improvisation and composition within the modern dance idiom. Full body warm-ups, technical exercises, and dance combinations will be explored as a way to build skill, kinesthetic awareness, physical strength, and artistry. Transferable to UC or CSU; see counselor for limitations

DANCE 15 Modern Dance 2 27 hours lecture, 27 hours laboratory **Recommended Preparation: DANCE 14** Grading: letter grade or pass/no pass

Formerly DANCE 15AB. This course continues to focus on building technical skill in modern dance including more challenging combinations and patterns, syncopation, and variation in tempo. Musicality, improvisation, and composition skills will be further developed with more challenging exercises and assignments. Transferable to UC or CSU; see counselor for limitations

DANCE 16

2.0 units

2.0 units

Modern Dance 3 27 hours lecture, 27 hours laboratory **Recommended Preparation: DANCE 15** Grading: letter grade or pass/no pass

Formerly DANCE 16AB. This course focuses on building intermediate technical skills in modern dance including more challenging combinations and patterns, increased syncopation, and variation in tempo emphasizing medium to fast weight changes Musicality, improvisation, and composition skills will be further developed with more challenging exercises and assignments. Transferable to CSU

DANCE 17 Modern Dance 4 27 hours lecture, 27 hours laboratory **Recommended Preparation: DANCE 16** Grading: letter grade or pass/no pass

Formerly DANCE 17AB. This course is an advanced study of modern dance techniques for the concert stage, encompassing more complicated combinations taught at a quicker pace, with an emphasis on movement

2.0 units

2.0 units

expression, creating composition studies, and a comparison on modern styles and choreographers. Transferable to UC or CSU; see counselor for limitations

DANCE 18A2.0 unitsFolk and Ethnic Dance-African27 hours lecture, 27 hours laboratory

Grading: letter grade or pass/no pass

Formerly DANCE 18AD. This course introduces dance from African 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. Transferable to UC or CSU; see counselor for limitations

2.0 units

DANCE 18B Folk and Ethnic Dance-Belly Dance 27 hours lecture, 27 hours laboratory Grading: letter grade or pass/no pass

This course will focus on training students to understand and perform belly dance. Students will also learn about the different music, history, and culture of this dance style. Students will demonstrate mastery of belly dance through choreographed and non-choreographed class performances.

Transferable to CSU

DANCE 193.0 unitsHip Hop Dance History54 hours lectureGrading: 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.

Transferable to UC or CSU; see counselor for limitations

DANCE 20	2.0 units
Jazz Dance 1	
27 hours lecture, 27 hours laboratory	
Grading: letter grade or pass/no pass	

Formerly DANCE 20AB. 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. Transferable to UC or CSU; see counselor for limitations DANCE 21 Jazz Dance 2 27 hours lecture, 27 hours laboratory Recommended Preparation: DANCE 20 Grading: letter grade or pass/no pass

Formerly DANCE 21AB. 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 and using long movement patterns with a focus on dynamics in rhythm, sustained and percussive tension, and dramatic focus that are unique to jazz.

Transferable to UC or CSU; see counselor for limitations

DANCE 24 Hip Hop 27 hours lecture, 27 hours laboratory Grading: letter grade or pass/no pass

This course will introduce students to the fundamentals of the hip hop/funk dance style. The students will learn the fundamentals of today's dances that are commonly used in music videos. Classes will include warm-up exercises, isolations, floor stretches and strengthening specific to the hip hop/funk style of dance. This will also include locomotor movements practiced across the floor and short dance combinations. Transferable to CSU

DANCE 26	2.0	units
Ballet 1		
27 hours lecture, 27 hours laboratory		
Grading: letter grade or pass/no pass		

Formerly DANCE 10AB. This course includes the study and execution of fundamental ballet techniques, including appreciation of ballet as an art form through the study of its history, current trends and terminology. Transferable to UC or CSU; see counselor for limitations

DANCE 27	2.0 units
Ballet 2	
27 hours lecture, 27 hours laboratory	
Recommended Preparation: DANCE 26	
Grading: letter grade or pass/no pass	

This course includes the study and execution of beginning ballet techniques, including appreciation of ballet as an art form through the study of its history, current trends and terminology. This course focuses on more challenging combinations and patterns,

DANCE 28 Ballet 3

2.0 units

27 hours lecture, 27 hours laboratory Recommended Preparation: DANCE 27

Grading: letter grade or pass/no pass

This course includes the study and execution of intermediate ballet techniques, including appreciation of ballet as an art form through the study of its history, current trends and terminology. This course focuses on more challenging combinations and patterns with an emphasis on musicality, placement, stability, and speed. Student will gain strength, improved coordination and alignment and demonstrate technical accuracy. Transferable to CSU

DANCE 29	2.0 units
Ballet 4	
27 hours lecture, 27 hours laboratory	
Recommended Preparation: DANCE 28	
Grading: letter grade or pass/no pass	

Formerly DANCE 11AB. This course includes the study and execution of advanced ballet techniques, including appreciation of ballet as an art form through the study of its history, current trends and terminology. This course focuses on more challenging combinations and patterns with an emphasis on musicality, placement, stability, and speed including an introduction to contemporary ballet vocabulary. Student will gain strength, improved coordination and alignment, and demonstrate technical accuracy.

Transferable to CSU

DANCE 31 2.0 units Choreography I 27 hours lecture, 27 hours laboratory

Prerequisite: DANCE 14 or DANCE 20 or DANCE 26 Grading: letter grade or pass/no pass

Formerly DANCE 31AB. 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. Transferable to UC or CSU; see counselor for limitations

COURSES

2.0 units

DANCE 32 Choreography 2 27 hours lecture, 27 hours laboratory

Recommended Preparation: One semester of DANCE 31 Grading: letter grade or pass/no pass

Formerly DANCE 32AB. 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. Transferable to UC or CSU; see counselor for limitations

DANCE 33 2.0 units Dance Choreography Workshop 27 hours lecture, 27 hours laboratory Prerequisite: DANCE 14, DANCE 20 or DANCE 26 Grading: letter grade or pass/no pass

Formerly DANCE 33AD. 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. Transferable to UC or CSU; see counselor for limitations

DANCE 41 Dance Performance 144 hours laboratory Corequisite: One of the followi

2.5 units

144 hours laboratory Corequisite: One of the following - DANCE 2, 3, 5, 6, 8, 12A, 12B, 13, 14, 15, 16, 17, 18A, 18B, 20, 21, 24, 26, 27, 28, 29, 31, 32, 33, 46 Grading: letter grade or pass/no pass

Formerly DANCE 41AD. This course prepares students for the professional stage by developing the skills of professional dancers and nurturing choreographers' artistic development. It 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. Transferable to UC or CSU; see counselor for limitations

DANCE 41/1 Dance Performance 36 hours laboratory

0.5 unit

Corequisite: DANCE 2, 3, 5, 6, 8, 12A, 12B, 13, 14, 15, 16, 17, 18A, 18B, 20, 21, 24, 26, 27, 28, 29, 31, 32, 33, 46 Grading: letter grade or pass/no pass

This course prepares students for the professional stage by developing the skills of professional dancers and

nurturing choreographers" artistic development. It 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.

Transferable to UC or CSU; see counselor for limitations

DANCE 41/2

1.0 unit

2.0 units

Dance Performance 72 hours laboratory

Corequisite: DANCE 2, 3, 5, 6, 8, 12A, 12B, 13, 14, 15, 16, 17, 18A, 18B, 20, 21, 24, 26, 27, 28, 29, 31, 32, 33, 46

Grading: letter grade or pass/no pass

This course prepares students for the professional stage by developing the skills of professional dancers and nurturing choreographers' artistic development. It 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. Transferable to UC or CSU; see counselor for limitations

DANCE 41/3 Dance Performance 108 hours laboratory

Corequisite: DANCE 2, 3, 5, 6, 8, 12A, 12B, 13, 14, 15, 16, 17, 18A, 18B, 20, 21, 24, 26, 27, 28, 29, 31, 32, 33, 46 Grading: letter grade or pass/no pass

This course prepares students for the professional stage by developing the skills of professional dancers and nurturing choreographers' artistic development. It 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. Transferable to UC or CSU; see counselor for limitations

DANCE 45

2.5 units

Musical Theatre Dance Performance 144 hours laboratory

Corequisite: One of the Following - DANCE 2, 3, 5, 6, 8, 11, 12, 13, 14, 15, 16, 17, 18A, 18B, 20, 21, 24, 26, 28, 29, 46

Recommended Preparation: DANCE 11 or DANCE 12 Grading: letter grade or pass/no pass

This course prepares students for the performance of a musical emphasizing developing character through dance culminating in a public presentation. Transferable to CSU

DANCE 46 **Ballroom/Social Dance** 27 hours lecture, 27 hours laboratory Grading: letter grade or pass/no pass

2.0 units

This course introduces students to the fundamentals of partner dance skills in Swing, Salsa, Waltz, Foxtrot, and Tango and other social dances. Students will practice movement techniques, patterns, and styling applicable to each style of dance. Transferable to CSU

DIGITAL MEDIA ARTS (DMA)

DMA 201 Intro to Digital Media Arts 36 hours lecture, 72 hours laboratory Grading: letter grade or pass/no pass

3.0 units

This course is a survey course introducing students to the fundamental applications of digital media systems and technologies as creative tools. The course also explores how digital media impacts our cultural, business and personal lives and transforms our experience of communication. Topics will include: imaging, graphic design, animation, visual effects and motion graphics, web design, transmedia storytelling, interactive media, gaming, sound design and recording, video production and post production.

DIAGNOSTIC MEDICAL IMAGING (DMI)

3.0 units DMI 10 Introduction of Radiologic Technology 54 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. Transferable to CSU

3.0 units

2.0 units

3.0 units

DMI 11	1.0 unit
Radiographic Techniques	
18 hours lecture	
Prerequisite: DMI 20	
Grading: letter grade	

This course is a study of the criteria required to select xray machine settings to produce diagnostic quality radiographs and the compensations in radiographic technique that are required for pathologic conditions. Transferable to CSU

DMI 12 3.0 units Contrast Fluoroscope/Radiographic Proced. 54 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 are also discussed within the scope of this course. Transferable to CSU

DMI 14 3.0 units Trends and Self-Assessment in Rad Tech 54 hours lecture Prerequisite: DMI 15 or current C.R.T. (Certified Radiologic Technologist) Grading: letter grade

Comprehensive review of the diagnostic medical imaging core curriculum. Serves as a preparation for state certification and national registry exams. Transferable to CSU

3.0 units

DMI 15 Computer Applications in Radiology 54 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. Transferable to CSU DMI 20 Introduction to Radiologic Physics 54 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. Transferable to CSU

DMI 21 Applied Radiological Physics 18 hours lecture, 54 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. Transferable to CSU

DMI 24 Radiation: Biology and Protection 54 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. Transferable to CSU

DMI 30 Positioning for General Diagnostic Rad 36 hours lecture, 54 hours laboratory Prerequisite: DMI 20 Recommended Preparation: DMI 11 Grading: letter grade

3.0 units

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. Transferable to CSU

DMI 31 S Positioning for Cranial Radiography 36 hours lecture, 54 hours laboratory Prerequisite: DMI 30 Grading: letter grade

3.0 units

2.5 units

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. Transferable to CSU

DMI 40A Clinical Radiology 144 hours laboratory Prerequisite: DMI 10 and DMI 20 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. Transferable to CSU

DMI 40B 7.5 units Clinical Radiology 18 hours lecture, 351 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. Transferable to CSU

DMI 40C 6.0 units Clinical Radiology 18 hours lecture, 270 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. Transferable to CSU

DMI 40D Clinical Radiology 18 hours lecture, 558 hours laboratory Prerequisite: DMI 40C Grading: letter grade 11.0 units

11.0 units

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.

Transferable to CSU

DMI 40E Clinical Radiology 18 hours lecture, 558 hours 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. Transferable to CSU

DMI 60 Radiologic Pathology 54 hours lecture Prerequisite: ANAT 41 and DMI 11 Grading: letter grade

3.0 units

This course is an introduction to the study of disease as it relates to radiologic technology. It includes the causes, signs, symptoms and radiolographic demonstration of common human diseases. The course acquaints the student with various pathologic conditions and their impact on the radiographic process. Transferable to CSU

3.0 units

DMI 61 Fluoroscopy 36 hours lecture, 18 hours 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. Transferable to CSU

DMI 222 0.5 unit Venipuncture for Medical Imaging 9 hours lecture, 9 hours 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 Physical Principles of MRI 54 hours lecture

3.0 units

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 the opportunity to acquire the necessary skills and knowledge to qualify for national licensure as MRI technologists.

2.0 units

DMI 402 Magnetic Resonance Imaging Procedure 54 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 Cross-Sectional Anatomy 54 hours lecture

3.0 units

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 MRI/CT Pathology 54 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 405A MRI Clinical Practicum 144 hours laboratory

2.5 units

3.0 units

144 hours laboratory Prerequisite: Possession of a valid Certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) license Grading: letter grade

Formerly DMI 405AB. This course allows the students the opportunity to practice the skills necessary to obtain high quality MR images, to objectively alter protocols based on patient pathology or physical condition, and to identify image quality problems and make appropriate corrections.

2.5 units

3.0 units

DMI 405B MRI Clinical Practicum 144 hours laboratory Prerequisite: DMI 405A Grading: letter grade

This course allows the students the opportunity to continue to practice the skills necessary to obtain high quality MR images, to objectively alter protocols based on patient pathology or physical condition, and to accumulate the required examinations designated by the American Registry of Radiologic Technologists.

DMI 406 3.0 units Computerized Tomography Physics 54 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 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

Computerized Tomography Procedures 54 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.

DMI 462 3.5 units Mammography 54 hours lecture, 27 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.

DRAFTING AND MECHANICAL DESIGN (DRAFT)

DRAFT 210 1.5 units 3D Printing Fundamentals I (FDM) 18 hours lecture, 36 hours laboratory Recommended Preparation: CAD 50 or any 3D Digital Modeling software experience Grading: letter grade or pass/no pass

This course introduces students to the field of 3D Digital Manufacturing and Design by providing training in the setup and operation of a Fused Deposition Modeling (FDM) 3D printer system. Students will receive introductory instruction on various 3D CAD and Parametric Design software packages used to create digital 3D models for printing. This class will enhance the employability skills of students preparing for careers such as Engineering, Engineering Technology, Product Design, Jewelry Design and Maquette Model Design for Animation and Architecture.

DRAFT 211 1.5 units Laser Cutting Fundamentals 18 hours lecture, 36 hours laboratory Recommended Preparation: CAD 50 or any 3D Digital Modeling software experience Grading: letter grade or pass/no pass

This course introduces students to the field of Digital Manufacturing and Design by providing training in the setup and operation of a CO2 Laser. Laser processes covered in the class are: cutting, marking, imaging and engraving. Students will receive introductory instruction on digital drawing software packages used to create digital graphics for printing and imaging with an introduction to appropriate materials. This class will

enhance the employability skills of students preparing for careers such as Engineering Technology, Product Design, Jewelry Design and Model Design for Architecture and other industries. The class includes time for student project work.

DRAFT 222 Advanced CATIA 36 hours lecture, 72 hours laboratory Recommended Preparation: CAD 221

Grading: letter grade or pass/no pass This course is the third course in a series of three

preparing students for careers as computer aided drafting operators in various industries utilizing CATIA parametric design software. The class introduces students to advanced levels of the operations of CATIA software concentrating on sheet metal, surface modeling, drawing tools in a Windows environment. The course may serve as a preparation for students intending to take the industry certification test for a CATIA Surface Design Specialist created by Dessault Systems.

DRAFT 230

3.0 units

3.0 units

Introduction to SolidWorks Level 1 36 hours lecture, 72 hours laboratory

Recommended Preparation: CAD 50 or industry drafting experience or high school drafting classes Grading: letter grade or pass/no pass

This course is the first in a series of three preparing students for careers as computer aided drafting (CAD) operators in various industries utilizing SolidWorks parametric design software. The class introduces students to the fundamental operations of SolidWorks software concentrating on the user interface and the creation of industry standard detail parts and assembly drawings based on 2D profiles (sketches) in a Windows environment. The course may serve as a preparation for students intending to take an industry certification test Certified SolidWorks Associate (CSWA) created by Dessault Systems.

DRAFT 231

3.0 units

Intermediate SolidWorks Level 2 36 hours lecture, 72 hours laboratory Recommended Preparation: DRAFT 230 Grading: letter grade or pass/no pass

This course is the second in a series of three preparing students for careers as computer aided drafting operators in various industries utilizing SolidWorks parametric design software. The class introduces students to intermediate levels of the operations of SolidWorks software concentrating on the creation of complex industry standard detail parts drawings and assemblies in a Windows environment. The course will prepare students to take an industry certification test, Certified SolidWorks Professional (CSWP), created by Dessault Systems.

DRAFT 232

3.0 units

Advanced SolidWorks Level 3 36 hours lecture, 72 hours laboratory Recommended Preparation: DRAFT 231 Grading: letter grade or pass/no pass

This course is the third in a series of three preparing students for careers as computer aided drafting operators in various industries utilizing SolidWorks parametric design software. The class introduces students to advanced levels of the operations of SolidWorks software concentrating on sheet metal, weldments, surface modeling, mold tools, drawing tools and FEA (Finite Element Analysis) in a Windows environment. The course will prepare students to take an industry certification test, Certified SolidWorks Expert (CSWE), created by Dessault Systems.

ECONOMICS (ECON)

ECON 1 (C-ID ECON 202) Macro Economic Analysis 54 hours lecture 3.0 units

Prerequisite: MATH 130 or MATH 130A and 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

Formerly ECON 1A. Macroeconomics is concerned with the economy as a whole and large market segments. The instructional emphasis is on macroeconomic policy. This course examines the functioning of a mixed enterprise system. Topics will include the economic role of government, determination of national income, the banking system, and Federal Reserve policy. The attention is focused on such problems as the level of unemployment, the rate of inflation, balance of payments, the nation's total output of goods and services, economic growth, fiscal and monetary policies. Transferable to UC or CSU; see counselor for limitations

COURSES

3.0 units

3.0 units

3.0 units

ECON 1H (C-ID ECON 202) Honors Macro Economic Analysis 54 hours lecture

Prerequisite: Qualification for Honors Program and MATH 130 or MATH 130A and MATH 130B Grading: letter grade or pass/no pass

3.0 units

3.0 units

3.0 units

Formerly ECON 1AH. Macroeconomics is concerned with the economy as a whole and large market segments. The instructional emphasis is on macroeconomic policy. This course examines the functioning of a mixed enterprise system. Topics will include the economic role of government, determination of national income, the banking system, and Federal Reserve policy. The attention is focused on such problems as the level of unemployment, the rate of inflation, balance of payments, the nation's total output of goods and services, economic growth, fiscal and monetary policies. Transferable to UC or CSU; see counselor for limitations

ECON 2 (C-ID ECON 201) Micro Economic Analysis 54 hours lecture

Prerequisite: MATH 130 or MATH 130A and 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

Formerly ECON 1B. 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. Transferable to UC or CSU; see counselor for limitations

ECON 2H (C-ID ECON 201) Honors Micro Economic Analysis 54 hours lecture

Prerequisite: Qualification for Honors Program and MATH 130 or MATH 130A and MATH 130B Grading: letter grade

Formerly ECON 1BH. 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. Transferable to UC or CSU; see counselor for limitations

ECON 3 General Concepts in Economics 54 hours lecture Grading: letter grade or pass/no pass

This course is a survey of economic principles, both micro and macro. This course is designed to provide noneconomics and non-business majors a foundation in economics.

Transferable to UC or CSU; see counselor for limitations

ECON 4 Contemporary Economic Issues 54 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 economies, 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. Transferable to UC or CSU; see counselor for limitations

ECON 5 The Global Economy 54 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. Transferable to UC or CSU; see counselor for limitations

0.0 unit

0.0 unit

EDUCATIONAL DEVELOPMENT

EDEV 602 Social Skills Development 36 hours lecture Grading: LBCC non-graded course

This course covers the essential social skills that students with intellectual, developmental and learning disabilities need to develop to achieve success in academic, professional and personal settings. Emphasis will be placed on the skills needed to promote appropriate social interactions, problem solving and communication.

EDEV 6030.0 unitReceptive/Expressive Language Dev.36 hours lectureGrading: LBCC non-graded course

This course covers receptive and expressive language skills needed for students with intellectual, developmental and learning disabilities to develop social competence. Through lecture, interactive role-play, and group assignments, students will learn the skills needed for self-advocacy, reading social cues, teamwork and will practice job interview skills.

EDEV 604	0.0 unit
Adult Learning Assessment	
9 hours lecture	
Grading: LBCC non-graded course	

This course provides instruction on adult learning and learning strategies. It includes individual assessments to identify learning strengths and weaknesses for the purpose of identifying learning disabilities following the California Community College Learning Disability Eligibility model. It emphasizes the development of a plan for improved learning in all college courses.

EDEV 610 Transition to Higher Learning 36 hours lecture Grading: LBCC non-graded course

This course is designed to prepare students with intellectual, developmental, and learning disabilities for college life and expectations. The main content topics include: transitioning to college, program studies/opportunities, academic and administrative requirements, resources, laws pertaining to students with disabilities, DSPS program, and tools for success for students with disabilities.

EDEV 6110.0 unitCommunication and Self-Advocacy36 hours lectureGrading: LBCC non-graded course

This course is designed to assist students with intellectual, developmental, and learning disabilities to develop effective communications skills needed for selfadvocacy and decision-making. The main content topics include: disabilities, disability/disability limitations discloser, appropriately requesting for reasonable accommodations, appropriate social etiquette, effective techniques for conflict resolution, and adaptive skills.

EDEV 649A College Study Techniques 18 hours lecture Grading: LBCC non-graded course 0.0 unit

1.0 unit

This course assists students with the development of essential 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 needed for college success through self-assessment and interpretation.

EDUCATION (EDUC)

EDUC 10 Introduction to Teaching and Learning 18 hours lecture

Recommended Preparation: Eligibility for READ 82 or reading proficiency met and eligibility for English 1 Grading: letter grade

This course will provide students with an introduction to teaching as a profession. It addresses the qualities of an effective teacher, components and purposes of an effective professional portfolio, and critical issues in diverse contemporary classrooms. Ten hours of field experience and observation in an approved classroom setting is required. Students must provide Clear LiveScan fingerprinting and Clear TB test results certification (issued within the past four years) to secure fieldwork placement in the school district. Transferable to CSU

EDUC 20 (C-ID EDUC 200) 3.0 units Intro to Elementary Classroom Teaching 54 hours lecture

Recommended Preparation: READ 82 or qualification through the LBCC assessment process for Reading and eligibility for ENGL 1 Grading: letter grade

This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, Kindergarten through grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary education issues, California's common core standards, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population and includes cooperation with at least one carefully and campus-approved certificated classroom teacher. Transferable to UC or CSU; see counselor for limitations

EDUC 40 1.0 unit Introduction to Educational Technology 18 hours lecture

Recommended Preparation: COSA 1 Grading: letter grade

Based on the Technology Standards for a CA K-12 Preliminary Teaching Credential, this course focuses on the technology proficiencies required prior to credential candidates being issued a preliminary Multiple or Single Subject Credential. Students will develop proficiency in educational technologies to facilitate the teaching process in a classroom setting and will apply digital literacy skills to create pedagogically sound teaching and learning products. Transferable to CSU

2.0 units

EDUC 130 Intro to Secondary Classroom Teaching 36 hours lecture Grading: letter grade

This course introduces students to the concepts and issues related to teaching in middle and high school classrooms. Topics include teaching as a career, historical and philosophical foundations of the American education system, a comprehensive view of contemporary education issues, California's Common Core standards, Next Generation Science Standards and teacher performance standards. In addition to class time, the course requires a minimum of 15 hours of structured fieldwork in public school secondary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully and campus-approved certificated classroom teacher.

ELECTRICITY (ELECT)

ELECT 411.5 unitsComputer Applications for Tech Reports18 hours lecture, 36 hours laboratoryPrerequisite: ELECT 600Grading: letter grade

The course will consist of an introduction to the various software programs used in the electrical technology 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 Computer Aided Design software, Word, Excel, Visio, Constructor, and web-based communication and information research. Transferable to CSU

ELECT 202 Electrical Mathematics 54 hours lecture Prerequisite: ELECT 600 Grading: letter grade 3.0 units

This course is designed for students enrolled in the Electrical Technology Program or Industry professionals coming back to complete continuing education units. This course covers the learning and application of mathematics and pre-algebra needed in the electrical industry. Faculty will utilize guided learning activities to help students to take meaningful measurements and apply mathematics and electrical formulas to solve problems. Students will learn how to apply topics such as arithmetic, fractions, decimals, percentages, graphing, measurement, and pre-algebra to better understand how to solve electrical formulas.

ELECT 2044.0 unitsFirst Semester Fundamentals of DC Electricity54 hours lecture, 54 hours laboratoryPrerequisite: ELECT 600 and ELECT 202 or ELECT 602 orMATH 110 or higherGrading: letter grade

This course is an introduction to direct current electrical theory, its practices, applications, 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. In addition, extensive hand-on lab exercises are provided to reinforce these concepts.

ELECT 209

4.0 units

4.0 units

Second Sem Fund of Motors/Generators 54 hours lecture, 54 hours laboratory Prerequisite: 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. In addition, extensive hand-on lab exercises are provided to reinforce these concepts.

ELECT 212 Third Semester Fund of AC Electricity 54 hours lecture, 54 hours laboratory Prerequisite: ELECT 225 and ELECT 209 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 including right angle trigonometry. In addition, extensive hand-on lab exercises are provided

ELECT 214

4.0 units

Fourth Semester AC Principles & Pract 54 hours lecture, 54 hours laboratory Prerequisite: ELECT 212 Grading: letter grade

to reinforce these concepts.

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. In addition, extensive hand-on lab exercises are provided to reinforce these concepts.

ELECT 2254.0 unitsAlgebra and Trigonometry for Technicians72 hours lecturePrerequisite: ELECT 600 and ELECT 202 or ELECT 602 orMATH 110 or higherGrading: letter grade

Formerly MATH 225. 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.

ELECT 227 Variable Speed Drive Fundamentals 18 hours lecture, 54 hours laboratory Prerequisite: ELECT 204 or ETEC 40 Grading: letter grade

This course covers the theory, circuit designs and application of direct current and alternating current variable speed drives. Topics include basic fabrication techniques, semiconductor usage, and control of both DC and AC Drives. Students will work through testing and troubleshooting exercises as well as determine the proper speed drives for specific applications.

ELECT 230A Robotics Technology - Design 18 hours lecture, 54 hours laboratory Grading: letter grade 2.0 units

2.0 units

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.

ELECT 230B

2.0 units

Robotics Technology - Integration 18 hours lecture, 54 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.

ELECT 2312.0 unitsElectro-Hydraulics and Pneumatic Systems18 hours lecture, 54 hours laboratoryPrerequisite: ELECT 204 or ETEC 40Grading: letter grade

This course covers the operation and troubleshooting of electro-hydraulic and electro-pneumatic (fluid power) systems. Control of fluid power systems with automation devices including Programmable Logic Controllers (PLCs) is included. This is a hands-on course with work on operating hydraulic and pneumatic actuators and controls.

ELECT 240	3.0	units
Introduction to National Electrical Code		
54 hours lecture		
Prerequisite: ELECT 204		
Grading: letter grade		

This course is an introduction to National Electrical Code. The interpretation of electrical wiring diagrams, material use, installation methods and calculation of electrical loads to size feeders and conductors is included.

ELECT 242	1.5 units
Electrical Code-Grounding	
27 hours lecture	
Prerequisite: ELECT 240	
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	
54 hours lecture	
Prerequisite: ELECT 240	
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 246 NFPA 70E for Manufacturing 36 hours lecture Prerequisite: ELECT 240 Grading: letter grade

The NFPA 70E is an industry consensus standard for electrical safety in the workplace. This standard provides practical methods for protecting personnel from electrical workplace hazards. Students will learn how to identify factors relating to electrical safety and how to properly correct these problems. Safe workplace practices and the selection of proper personal protective equipment will be covered.

1.0 unit

This course covers aspects of the National Electrical Code and Article 690 as they pertain to solar electrical installations and associated equipment. Safety, installation, grounding, bonding and vehicle chargers are among the items covered.

ELECT 250 Electrical Code-Industrial 54 hours lecture Prerequisite: ELECT 240 Grading: letter grade 3.0 units

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 OSHA Standards for Construction Safety 36 hours lecture Prerequisite: ELECT 600 Grading: pass/no pass 2.0 units

This course covers Occupational Safety and Health Administration (OSHA) policies, procedures, and standards, with emphasis on safety and health principles in the construction trades. Topics include Industrial Hygiene, Managing Safety and Health through the hierarchy of controls as applied to the OSHA construction standards. Special attention is given to those areas that are extremely hazardous and often result in serious injury to construction workers. Upon successful course

2.0 units

completion with meeting OSHA attendance requirements, the student will receive an OSHA Department of Labor (DOL) 30 Hour Construction Outreach Training Completion Card.

ELECT 2561.0 unitHigh Voltage Safety Awareness18 hours lecturePrerequisite: ELECT 240 and ELECT 2535 rading: letter grade

The focus of this course is on voltages over 600 volts, which in the workplace presents unique and potentially deadly hazards to employees. The course covers the recommended best safety practices, personal protective equipment, and safe approach distances for working with voltages between 600 volts and 16k volts. Industry standards from OSHA (Occupational Safety and Health Administration) and NFPA 70E (National Fire Protection Association) are covered.

3.0 units

ELECT 262 Solar 1-Grid-Tied Solar Photovoltaics 45 hours lecture, 27 hours laboratory Prerequisite: ELECT 200B or ELECT 209 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 2633.0 unitsSolar 2-Advanced Solar Photovoltaics45 hours lecture, 27 hours laboratoryPrerequisite: ELECT 262Grading: 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 2652.0 unitsConductors18 hours lecture, 54 hours laboratoryPrerequisite: ELECT 212Grading: letter grade

This course provides an understanding of how to identify and interpret AC single-line and three-line diagrams, connection and interconnection drawings, electrical symbols, and ANSI device numbers associated with electrical equipment. Students will learn to verify correct type and ratings of Low and Medium voltage power cables to include shielding requirements. Students will learn methods and procedures for testing cables and interpreting test data. InterNational Electrical Testing Association (NETA) standards are adhered to in this course.

ELECT 266 Circuit Breakers 18 hours lecture, 54 hours laboratory Prerequisite: ELECT 212 Grading: letter grade

This course is an overview of the construction, application, function, operation, testing, and analyzation of test results of molded-case, insulated-case, and power-type circuit breakers and switches. It is a course that requires previous Alternating Current electrical coursework and math. InterNational Electrical Testing Association (NETA) standards are adhered to in this course.

ELECT 267

Switchgear and Switchboards 18 hours lecture, 54 hours laboratory Prerequisite: ELECT 212 Grading: letter grade

This course discusses the operation and servicing of Switchgear, Switchboards, and Motor Control Centers, their function as a system, their operational control logic, motor starting methods, all to ANSI/NETA maintenance and testing specifications. This course requires previous coursework in Alternating Current Electricity. InterNational Electrical Testing Association (NETA) standards are adhered to in this course.

ELECT 268 Transformers 18 hours lecture, 54 hours laboratory Prerequisite: ELECT 212 Grading: letter grade

This course describes the basic applications of power distribution transformers, consisting of two or more coupled windings, in single and three-phase systems and defines transformer winding configurations for step-up or step-down operation and the various ancillary

2.0 units

2.0 units

2.0 units

3.0 units

components incorporated to monitor and cool windings. Students will learn the various electrical tests used to analyze transformer windings, and identify the transformer's ability to operate within the energized electrical system. InterNational Electrical Testing Association (NETA) standards are adhered to in this course.

3.0 units

ELECT 271 Electrical Cost Estimating 1 54 hours lecture Prerequisite: ELECT 277 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 2751.0 unitElectrical Pipe Bending9 hours lecture, 27 hours laboratoryPrerequisite: ELECT 225Grading: letter grade

This course is a study of how to properly calculate, layout and bend Electrical Metallic Tubing (EMT) and Rigid Metal Conduit (RMC). Methods taught include hand bending and the use of mechanical and machine benders per Industry standards and National Electrical Code (NEC) standards.

ELECT 2773.0 unitsBlueprint Reading for Electricians54 hours lecturePrerequisite: ELECT 212Grading: letter grade

This course is designed for students to comprehend, and correctly interpret blueprints used in the electrical and related construction trades.

ELECT 2803.0 unitsTraffic Signal Systems 145 hours lecture, 27 hours laboratoryRecommended Preparation: ELECT 204Grading: 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 283 Traffic Systems Communications 45 hours lecture, 27 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 2843.0 unitsTraffic Signal Controllers & Digital Systems45 hours lecture, 27 hours laboratoryPrerequisite: ELECT 204Grading: letter grade

This is a course in digital logic and microprocessor controls as applied to Traffic Signal Systems. This handson 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 2852.0 unitsTraffic Signal Inspection and Safety36 hours lecturePrerequisite: ELECT 280 and ELECT 284Grading: letter grade

This course covers the processes necessary for the proper inspection of traffic signal systems. Topics will include areas of inspection and proper inspection methods. Additional topics in safety as it relates to traffic signals will be covered.

ELECT 400 Electrical Certification Exam Prep 36 hours lecture Grading: pass/no pass 2.0 units

This course prepares students to take the California Electrician 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 435A2.0 unitsMotor Control Wiring and Troubleshooting18 hours lecture, 54 hours laboratoryPrerequisite: ELECT 209Grading: 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 (PLCs) is included. Mandatory safety awareness assessment will be conducted early in the course.

ELECT 435B2.0 unitsProgrammable Logic Controllers (PLC) 118 hours lecture, 54 hours laboratoryPrerequisite: ELECT 435AGrading: 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 (PLCs), ladder logic, wiring, timing and programming. GE Fanuc PLCs and GE Proficy software are utilized.

ELECT 435C

3.0 units

HMI and Advanced PLC Programming 45 hours lecture, 27 hours laboratory Prerequisite: ELECT 435B Grading: letter grade

This course is an introduction to Human Machine Interface (HMI) concepts and programming along with advanced Programmable Logic Controller (PLC) programming. This is a hands-on class with programming of displays and PLCs which will build upon programming skills learned in ELECT 435B. Introductory process control, factory automation and SCADA (Supervisory Control and Data Acquisition) concepts are covered.

ELECT 600 0.0 unit Electrical Program & Safety Preparation 9 hours lecture

Grading: LBCC non-graded course

This is a preparation and orientation course for the Electrical Technology Program. Students planning on enrolling in either the ELECT or CISCO series of classes must complete this class. Topics covered will include curriculum guide navigation, electrician trainee status, program completion certificates, program math requirements and substitutions, Associate Degree requirements, student safety and personal protective equipment, expectations of students in the program and examples of expected work product.

ELECT 6010.0 unitComputer Applications for Tech Reports18 hours lecture, 36 hours laboratoryPrerequisite: ELECT 600Grading: LBCC non-graded course

The course will consist of an introduction to the various software programs used in the electrical technology 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 Computer Aided Design Software, Word, Excel, Visio, Constructor, and web-based communication and information research.

ELECT 602 Electrical Mathematics 54 hours lecture Prerequisite: ELECT 600 Grading: LBCC non-graded course

This course is designed for students enrolled in the Electrical Technology Program or Industry professionals coming back to complete continuing education units. This course covers the learning and application of mathematics and pre-algebra needed in the electrical industry. Faculty will utilize guided learning activities to help students to take meaningful measurements and apply mathematics and electrical formulas to solve problems. Students will learn how to apply topics such as arithmetic, fractions, decimals, percentages, graphing, measurement, and pre-algebra to better understand how to solve electrical formulas.

EMERGENCY MEDICAL TECHNOLOGY (EMT)

EMT 251 Emergency Medical Technician 72 hours lecture 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

4.0 units

0.0 unit

4.0 units

content emphasizes identifying and correcting lifethreatening 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 2.0 units **Emergency Medical Technician Laboratory 108 hours laboratory** 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. There may be mandatory assignments that include evenings and weekends.

EMT 252

1.0 unit

4.0 units

Emergency Medical Tech I Refresher 18 hours lecture, 9 hours laboratory Prerequisite: Current EMT - 1 Certification Grading: letter grade

Formerly EMT 252AD. 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.

ENGLISH (ENGL)

ENGL 1 (C-ID ENGL 100) **Reading and Composition** 72 hours lecture Prerequisite: ESL 34X or ENGL 105 or qualification

through the LBCC assessment process for English Grading: letter grade

In this course, students read and analyze college-level texts in order to write researched, thesis-based essays. Transferable to UC or CSU; see counselor for limitations

ENGL 1H (C-ID ENGL 100) **Honors Reading and Composition** 72 hours lecture

Prerequisite: ESL 34X or ENGL 105 or qualification through the LBCC assessment process for English and qualification for the Honors Program 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.

Transferable to UC or CSU; see counselor for limitations

4.0 units ENGL 2 (C-ID ENGL 120) Introduction to Literature/Composition 72 hours lecture Prerequisite: ENGL 1 or ENGL 1H Grading: letter grade or pass/no pass

This introduction to analysis of and writing about literature focuses on the three major genres of fiction, drama, and poetry. Writing assignments are designed to develop students' critical thinking and reading skills through the analysis and interpretation of the reading material.

Transferable to UC or CSU; see counselor for limitations

ENGL 2H (C-ID ENGL 120) 4.0 units Honors Introduction to Literature/Comp. 72 hours lecture Prerequisite: ENGL 1 or ENGL 1H and gualification for the

Honors Program Grading: letter grade or pass/no pass

This course is an honors introduction to analysis of and writing about literature, focusing on the three major genres of fiction, drama and poetry. Writing assignments are designed to develop students' critical thinking and reading skills through the analysis and interpretation of the reading material. Transferable to CSU

ENGL 3 (C-ID ENGL 105) **Argumentative and Critical Writing**

4.0 units

72 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

3.0 units

emphasized, as well as the evaluation and use of both electronic and conventional sources.

Transferable to UC or CSU; see counselor for limitations

ENGL 3H (C-ID ENGL 105) 4.0 units Honors Argumentative & Critical Writing 72 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.

Transferable to UC or CSU; see counselor for limitations

4.0 units

ENGL 4 (C-ID ENGL 110) Critical Analysis of Literature 72 hours lecture

Prerequisite: ENGL 1, ENGL 1H or qualification through the LBCC assessment process for English 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.

Transferable to UC or CSU; see counselor for limitations

ENGL 4H 4.0 units Honors Critical Analysis of Literature 72 hours lecture Prorequisite: ENGL 1 or ENGL 1H and qualification for

Prerequisite: ENGL 1 or ENGL 1H and qualification for the Honors Program 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.

Transferable to UC or CSU; see counselor for limitations

ENGL 6

3.0 units

Production of Literary Publications 36 hours lecture, 54 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. Transferable to CSU

ENGL 7 Editing a Literary Review 54 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. Transferable to CSU

ENGL 244.0 unitsCollege Grammar72 hours lectureGrading: 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. Transferable to CSU

ENGL 26 (C-ID ENGL 200)3.0 unitsCreative Writing 154 hours lecturePrerequisite: Eligibility for ENGL 1Grading: letter grade or pass/no pass

This course offers an introduction to practical and supervised experience in the fundamentals of writing fiction and poetry, through the study and analysis of the works of established professional and peer writers. Students will practice writing in various genres and will be introduced to the workshop method. Transferable to UC or CSU; see counselor for limitations

ENGL 323.0 unitsMasterpieces/Asian Literature (in English)54 hours lecturePrerequisite: Eligibility for ENGL 1Grading: letter grade or pass/no pass

3.0 units

3.0 units

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 their historical, cultural, and philosophical contexts. Transferable to UC or CSU; see counselor for limitations

ENGL 33 **Mythology**

4.0 units

72 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.

Transferable to UC or CSU; see counselor for limitations

ENGL 33H 4.0 units **Honors Mythology** 72 hours lecture

Prerequisite: Qualification for the Honors Program and 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.

Transferable to UC or CSU; see counselor for limitations

ENGL 34 4.0 units Literature for Children and Young Adults 72 hours lecture Prerequisite: Eligibility for ENGL 1

Grading: letter grade

This course introduces representative works of literature written for children and young adults and develops students' close reading and analytical writing skills while promoting an appreciation for the qualities of literature from historical, philosophical, social, political, and aesthetic perspectives.

Transferable to UC or CSU; see counselor for limitations

3.0 units

ENGL 35 **Interpreting the Short Story** 54 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.

Transferable to UC or CSU; see counselor for limitations

ENGL 36 The Novel 54 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.

Transferable to UC or CSU; see counselor for limitations

ENGL 37 Science Fiction, Fantasy and Horror 54 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. Transferable to UC or CSU; see counselor for limitations

3.0 units ENGL 38 The Bible as Lit: The Old Testament 54 hours lecture Prerequisite: Eligibility for ENGL 1 Grading: letter grade or pass/no pass

This course surveys the narratives, poetry, and literary structure of the Old Testament, the Hebrew Bible. The course is designed for students interested in broadening their understanding of the literary characteristics, the culture, and the historical contexts of the Old Testament. Transferable to UC or CSU; see counselor for limitations

ENGL 39 3.0 units The Bible as Lit: Apocrypha/New Testament 54 hours lecture Prerequisite: Eligibility for ENGL 1 Grading: letter grade or pass/no pass

This course surveys the narratives, poetry, parables, letters, and literary structure of the New Testament and Apocrypha. The course is designed for students

4.0 units

interested in studying the literary characteristics as well as the cultural and historical contexts of the books of the New Testament and the Apocrypha.

Transferable to UC or CSU; see counselor for limitations

ENGL 41 (C-ID ENGL 130)4.0 unitsAmerican Literature I72 hours lecturePrerequisite: Eligibility for ENGL 1Grading: letter grade or pass/no pass

This course is a survey of American literature from 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. Transferable to UC or CSU; see counselor for limitations

ENGL 42 (C-ID ENGL 135)4.0 unitsAmerican Literature II72 hours lecturePrerequisite: Eligibility for ENGL 1Grading: letter grade or pass/no pass

This course is a survey of American literature from the Civil War to the present. Readings will include authors of diverse cultural backgrounds: African American, Asian American, European American, Mexican American, and Native American. We will consider how social and political issues influence the authors' works, and we will discuss literary movements so we can see how American literature has evolved.

Transferable to UC or CSU; see counselor for limitations

ENGL 43A4.0 unitsIntroduction to Shakespeare72 hours lecturePrerequisite: Eligibility for ENGL 1

Grading: letter grade or pass/no pass

This course presents Shakespeare as a major literary figure in the context of the Elizabethan and Jacobean periods and the history of British literature. It involves reading, discussion, and analysis of seven plays and selected sonnets.

Transferable to UC or CSU; see counselor for limitations

ENGL 43B4.0 unitsIntroduction to Shakespeare72 hours lecturePrerequisite: Eligibility for ENGL 1Grading: letter grade or pass/no pass

The course presents Shakespeare as a major literary figure in the context of the Elizabethan and Jacobean periods and the history of British literature. This course involves reading, discussion, and analysis of seven later plays and selections from the longer poems. Transferable to UC or CSU; see counselor for limitations

ENGL 44 (C-ID ENGL 140)4.0 unitsWorld Literature I72 hours lecturePrerequisite: Eligibility for ENGL 1Grading: letter grade or pass/no pass

This course offers a comparative survey of the historical development of world literature in translation from ancient times to the mid or late seventeenth century, including works from Europe, the Middle East, Asia, and other areas and reflecting philosophical, political, and artistic changes in western and eastern cultures. Transferable to UC or CSU; see counselor for limitations

ENGL	44H	(C-ID	ENGL 140)
Honor	s Woi	rld Lite	erature I
72 hou	urs leo	ture	

Prerequisite: Qualification for the Honors Program and eligibility for ENGL 1 Grading: letter grade or pass/no pass

This course offers an honors comparative survey of the historical development of world literature in translation from ancient times to the mid or late seventeenth century, including works from Europe, the Middle East, Asia, and other areas and reflecting philosophical, political, and artistic changes in western and eastern cultures.

Transferable to UC or CSU; see counselor for limitations

ENGL 45 (C-ID ENGL 145)	4.0 units
World Literature II	
72 hours lecture	
Prerequisite: Eligibility for ENGL 1	
Grading: letter grade or pass/no pass	

This course focuses on world literature with an emphasis on works in translation, covering works from the Renaissance to contemporary times and emphasizing an appreciation of aesthetic, philosophical, and cultural concepts.

Transferable to UC or CSU; see counselor for limitations

ENGL 45H (C-ID ENGL 145)	4.0 units
Honors World Literature II	
72 hours lecture	
Prerequisite: Qualification for the Hono	ors Program and
eligibility for ENGL 1	
Grading: letter grade or pass/no pass	

This course focuses on world literature with an emphasis on works in translation, covering works from the Renaissance to contemporary times and emphasizing an appreciation of aesthetic, philosophical, and cultural concepts.

Transferable to UC or CSU; see counselor for limitations

ENGL 46 (C-ID ENGL 160)4.0 unitsSurvey of British Literature I72 hours lecturePrerequisite: Eligibility for ENGL 1

Grading: letter grade or pass/no pass

This survey of English literature from the early medieval period to the last quarter of the eighteenth century includes study of the historical, philosophical, political, social, and aesthetic concepts inherent in the works and their milieus.

Transferable to UC or CSU; see counselor for limitations

ENGL 47 (C-ID ENGL 165)4.0 unitsSurvey of British Literature II72 hours lecturePrerequisite: Eligibility for ENGL 1Grading: letter grade or pass/no pass

This survey of British literature covers British writers from the Age of Romanticism in the 18th century, through the Victorian Era, and into the 21st century and includes study of the historical, philosophical, political, social, and aesthetic concepts inherent in the works and their milieus.

Transferable to UC or CSU; see counselor for limitations

ENGL 48 3.0 units Modern & Contemporary Literature

54 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. Transferable to UC or CSU; see counselor for limitations

ENGL 48H3.0 unitsHonors Modern & Contemporary Literature54 hours lecturePrerequisite: Qualification for the Honors Program andeligibility 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. Transferable to UC or CSU; see counselor for limitations

ENGL 493.0 unitsFilm and Literature54 hours lecturePrerequisite: Eligibility for ENGL 1Grading: letter grade or pass/no pass

This course will offer an examination of the ways in which literary works are related to film through the interdisciplinary study of structure and theme. The course will focus on analysis of cross-cultural/gender issues and artistic approaches, with focus on film adaptations of significant works from American, Western, and non-Western cultures, primarily novels and plays. Discussion will include ways in which literary works successfully or unsuccessfully translate into films. Transferable to UC or CSU; see counselor for limitations

ENGL 49H 3.0 units Honors Film and Literature 54 hours lecture Prerequisite: Qualification for the Honors Program and eligibility for ENGL 1 Grading: letter grade or pass/no pass

English 49H will offer an examination of the ways in which literary works are related to film through the interdisciplinary study of structure and theme. The course will focus on analysis of cross-cultural/gender issues and artistic approaches, with focus on film adaptations of significant works from American, Western, and non-Western cultures, primarily novels and plays. Discussion will include ways in which literary works

COURSES

3.0 units

successfully or unsuccessfully translate into films. Transferable to UC or CSU; see counselor for limitations

ENGL 50A3.0 unitsIntroduction to Poetry Writing54 hours lecturePrerequisite: ENGL 26Grading: letter grade or pass/no pass

Formerly ENGL 27A. This course offers an introduction to practical experience in writing, appreciating and analyzing poetry. Transferable to UC or CSU; see counselor for limitations

ENGL 50B3.0 unitsIntermediate Poetry Writing54 hours lecturePrerequisite: ENGL 50AGrading: letter grade or pass/no pass

This course offers an intensive workshop atmosphere in which to write original poetry. This course focuses on theory, technique and practical discipline of writing poetry; and examines basic forms of poetry. Students discuss the techniques of poetry and present manuscripts of their own work for critical discussion. In addition, students learn to write critiques, demonstrating an intermediate knowledge of poetic technique and terminology.

Transferable to CSU

ENGL 50C3.0 unitsAdvanced Poetry Writing54 hours lecturePrerequisite: ENGL 50BGrading: letter grade or pass/no pass

This course offers an intensive workshop atmosphere in which to write and revise original poetry. Students enrolled in this course should be presently working on a portfolio of poetry. This course is designed to assist students in developing and revising poetry manuscripts to meet contemporary publication standards. Transferable to CSU

ENGL 50D3.0 unitsWriting and Publishing Poetry54 hours lecturePrerequisite: ENGL 50CGrading: letter grade or pass/no pass

This course offers an intensive workshop atmosphere focusing on preparation of a book length manuscript for

publication. This course is designed to assist students in preparing and marketing professional manuscripts of a select number of poems for publication. Students will focus on current standards for query letters and other submission procedures. Manuscripts submitted for workshop will meet contemporary publication standards. Transferable to CSU

ENGL 51A Introduction to Fiction Writing 54 hours lecture Prerequisite: ENGL 26 Grading: letter grade or pass/no pass

Formerly ENGL 27B. This course offers an intensive workshop atmosphere in which to write short fiction. The course focuses on theory, technique and practical discipline of writing fiction, and examines models from various genres. Students discuss the techniques of storytelling and present manuscripts of their own work for critical discussion.

Transferable to UC or CSU; see counselor for limitations

ENGL 51B3.0 unitsIntermediate Fiction Writing54 hours lecturePrerequisite: ENGL 51AGrading: letter grade or pass/no pass

This course offers an intensive workshop atmosphere in which to write original short fiction and focuses on theory, technique and practical discipline of writing fiction. It also examines basic models of short stories. Students discuss the techniques of storytelling and present manuscripts of their own work for critical discussion. In addition, students learn to write critiques demonstrating an intermediate knowledge of literary technique and terminology. Transferable to CSU

ENGL 51C 3.0 units Advanced Fiction Writing 54 hours lecture Prerequisite: ENGL 51B Grading: letter grade or pass/no pass

This course offers an intensive workshop atmosphere focusing on analysis of the elements of fictional structure through student examination of works in progress. Students enrolled in this course should be presently working on a portfolio of short stories. This course is designed to assist students in developing and revising

manuscripts to meet contemporary publication standards. Transferable to CSU

ENGL 51D3.0 unitsWriting and Publishing Fiction54 hours lecturePrerequisite: ENGL 51CGrading: letter grade or pass/no pass

This course offers an intensive workshop atmosphere focusing on preparation of a book length manuscript for publication. This course is designed to assist students in preparing and marketing professional manuscripts of a select number of short stories for publication. Students will focus on current standards for query letters and other submission procedures. Manuscripts submitted for workshop will meet contemporary publication standards. Transferable to CSU

ENGL 52A	3.0 units
Introduction to Novel Writing	
54 hours lecture	
Prerequisite: ENGL 26	
Grading: letter grade or pass/no pass	

Formerly ENGL 27E. This course offers an intensive workshop atmosphere in which to write an original work of book-length fiction. The course 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 one's own work for critical discussion.

Transferable to UC or CSU; see counselor for limitations

ENGL 52B3.0 unitsIntermediate Novel Writing54 hours lecturePrerequisite: ENGL 52AGrading: letter grade or pass/no pass

This course offers a workshop atmosphere focusing on planning and developing an original novel length manuscript. This course focuses on theory, technique, 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 their own work for critical discussion. In addition, students learn to write critiques demonstrating a working knowledge of literary technique and terminology. Transferable to CSU

ENGL 52C Advanced Novel Writing 54 hours lecture Prerequisite: ENGL 52B Grading: letter grade or pass/no pass

This course offers an intensive workshop atmosphere focusing on analysis of the elements of dramatic fictional structure through student examination of works in progress. Students enrolled in this course should be presently working on a novel based manuscript. This course is designed to assist students in developing and revising manuscripts to meet contemporary publication standards.

Transferable to CSU

ENGL 52D Writing and Publishing The Novel 54 hours lecture Prerequisite: ENGL 52C Grading: letter grade or pass/no pass

3.0 units

3.0 units

This course offers an intensive workshop atmosphere focusing on preparation of a novel length manuscript for publication. This course is designed to assist students in preparing and marketing professional manuscripts for publication. Students will focus on current standards for query letters and other submission procedures. Manuscripts submitted for workshop will meet contemporary publication standards. Transferable to CSU

ENGL 53A3.0 unitsIntroduction to Creative Nonfiction54 hours lecturePrerequisite: ENGL 26Grading: letter grade

In this course, students read and write creative nonfiction prose. The course focuses on theory, technique and practical discipline of writing creative nonfiction, and examines models from various categories of prose (the personal essay, memoir, the lyric essay, the experimental essay, nature and travel writing, profiles, and others). Students discuss the craft and techniques of creative nonfiction storytelling and present original prose of one's own work for critical discussion.

Transferable to UC or CSU; see counselor for limitations

2021-2022 CATALOG			COURSES
ENGL 105	4.0 units	This course focuses on exposito	ry writing, standard
Fundamentals of Writing		written English, and critical read	
72 hours lecture		paragraph level. During the sem	
Grading: letter grade or pass/no pass		required to complete 3 hours of supplemental learning activities in a Success Center.	
This course focuses on expository an	nd argumentative		
writing, standard written English, and critical reading.		ENGL 801B	4.0 units
The course prepares students for en	trance into ENGL1.	College English Skills II	
During the semester, students are re	equired to complete	72 hours lecture	
3 hours of supplemental learning activities in a Success Center.		Prerequisite: ENGL 801A or qualification through the LBCC assessment process for English, which must be	
		completed before registration	
ENGL 600	0.0 unit	Grading: pass/no pass	
Great Works of Literature			
54 hours lecture		This course focuses on expository writing, standard	
Grading: LBCC non-graded course		written English, and critical reading, especially moving	
		from the paragraph to essay lev	el. During the semester,
This course is an introduction to lite	rature with an	students are required to complete 3 hours of	
emphasis on both the reading of ma	ijor works of	supplemental learning activities in a Success Center.	
literature and on training in written	expression especially		
for the older adult population.		ENGL 896	2.0 units
		Reading and Composition Skills	s Support
ENGL 627	0.0 unit	36 hours lecture	
Writing for Publication or Pleasure		Corequisite: ENGL 1	
54 hours lecture		Grading: pass/no pass	
Grading: LBCC non-graded course			
		Formerly EWRC 896AD. This course offers concurrent	
This course gives especially older ad	ult students	instructional support for ENGL 1 students whose	
experience with the creative and critical processes in		assessment indicates they need additional practice in	
creative writing.		critical reading, writing, thinking	
		The course provides scaffolded,	
ENGL 696	0.0 unit	individualized activities, and on	
Reading and Composition Skills Support		writing instructor to supplement the skills and support	
36 hours lecture		necessary to complete ENGL 1 of	concurrently during a
Corequisite: ENGL 1		single semester.	
Grading: LBCC non-graded course			
This course offers concurrent instru	ctional support for	ENGINEERING (ENGR)	
ENGL 1 students whose assessment	•	<u></u>	
additional practice in critical reading		ENGR 3A	3.0 units
and success strategies. The course p	rovides scattolded.		

ENGR 3A 3.0 of Essential Engr Graphics & 3D CAD Drafting 36 hours lecture, 72 hours laboratory Prerequisite: MATH 120 or one year high school geometry 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 of computers to prepare and study engineering drawings and solving engineering space problems by orthographic

and success strategies. The course provides scaffolded,

collaborative, individualized activities, and one-to-one

feedback from a writing instructor to supplement the

Prerequisite: Qualification through the LBCC assessment

4.0 units

skills and support necessary to complete ENGL 1

concurrently during a single semester.

ENGL 801A

College English Skills I

72 hours lecture

process for English

Grading: pass/no pass

methods will be emphasized. Transferable to UC or CSU; see counselor for limitations

3.0 units

3.5 units

ENGR 3B Advanced Engr Graphics & 3D CAD Drafting 36 hours lecture, 72 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. Transferable to UC or CSU; see counselor for limitations

ENGR 11 Digital Logic Design 54 hours lecture, 36 hours laboratory Prerequisite: MATH 130 Grading: letter grade or pass/no pass

A modern introduction to logic design and the basic building blocks used in digital systems, in particular digital computers. Discussion of combinational logic: logic gates, minimization techniques, arithmetic circuits, and modern logic devices such as field programmable logic gates. Sequential circuits: flip-flops, synthesis of sequential circuits, and case studies, including counters, registers, and random access memories. State machines are discussed and illustrated through case studies of more complex systems using programmable logic devices. This course is intended for students transferring to an engineering program such as electrical, computer, or biomedical.

Transferable to CSU

ENGR 17	3.0 units
Electrical Engineering Circuits	
54 hours lecture	
Corequisite: 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. Transferable to UC or CSU; see counselor for limitations ENGR 17L Electrical Engineering Circuits Lab 54 hours laboratory Corequisite: ENGR 17 Grading: letter grade

This course provides a laboratory study of electrical circuits and instrumentation to accompany the lecture course.

Transferable to UC or CSU; see counselor for limitations

ENGR 35 Statics 54 hours lecture Prerequisite: MATH 60 Corequisite: PHYS 3A 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. Transferable to UC or CSU; see counselor for limitations

ENGR 50 Introduction to Engineering 18 hours lecture Grading: pass/no pass

This course is an introduction to engineering concepts from various branches of engineering. Transferable to UC or CSU; see counselor for limitations

ENGR 54 3.5 units Computer Methods 54 hours lecture, 36 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. The course also introduces MATHEMATICA and MATLAB software with applications from Engineering,

LONG BEACH CITY COLLEGE

1.0 unit

3.0 units

Science and Mathematics. Transferable to UC or CSU; see counselor for limitations

ENVIRONMENTAL SCIENCE (ENVRS)

3.0 units

5.0 units

5.0 units

ENVRS 1 Energy for the Future 54 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.

Transferable to UC or CSU; see counselor for limitations

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 33X College English with Computers for ESL 90 hours lecture

Prerequisite: ESL 56X or qualification through the LBCC assessment process for ESL

Recommended Preparation: READ 883AX 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 34X. Transferable to UC or CSU; see counselor for limitations

ESL 34X

College English with Computers for ESL 90 hours lecture

Prerequisite: ESL 33X or qualification through the LBCC assessment process for ESL Recommended Preparation: Read 883AX 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 entrance into English 1. 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. Transferable to UC or CSU; see counselor for limitations

ESL 54X 5.0 units Effective Writing with Computers for ESL 90 hours lecture

Prerequisite: ESL 147 or qualification through the LBCC assessment process for ESL 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 personal computers.

ESL 56X

5.0 units

College Writing with Computers for ESL 90 hours lecture

Prerequisite: ESL 147 or ESL 54X or qualification through the LBCC assessment process for ESL 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 personal computers.

ESL 146

Comprehensive Grammar I 90 hours lecture

5.0 units

90 hours lecture Prerequisite: ESL 645 or 845 or qualification through the LBCC assessment process for English or ESL Recommended Preparation: ESL 860/861/862/863 per LBCC assessment process

Grading: letter grade or pass/no pass

Formerly ESL 146AB. 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 formed with irregular verbs.

ESL 147 5.0 units **Comprehensive Grammar II** 90 hours lecture Prerequisite: ESL 146 Recommended Preparation: ESL 860/861/862/863 per LBCC assessment process Grading: letter grade or pass/no pass

Formerly ESL 147AB. 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-clause sentences and work with a variety of English idioms formed with irregular verbs.

ESL 270 5.0 units Listen/Speak for Work for ESL Level 1 90 hours lecture Prerequisite: ESL 844 or ESL 644 Grading: letter grade or pass/no pass

The first course in a three-course sequence in listening and speaking skills for the workplace for ESL. Cultural, sociolinguistic and nonverbal communication strategies and norms for a U.S. workplace setting are identified, analyzed and practiced.

5.0 units

ESL 271

Read/Write for Work for ESL Level 1 90 hours lecture

Prerequisite: ESL 844 or ESL 644 **Recommended Preparation: Students are strongly** advised to enroll in ESL 270 and ESL 271 in the same semester.

Grading: letter grade or pass/no pass

The first course in a three-course sequence of reading and writing skills for the workplace for ESL.

Sociolinguistic and organizational norms for writing in a U.S. workplace setting are identified, analyzed and practiced.

ESL 272 5.0 units Listen/Speak for Work for ESL Level 2 90 hours lecture

Prerequisite: ESL 670 or ESL 270 Recommended Preparation: Students are strongly advised to enroll in ESL 272 and ESL 273 in the same semester. Grading: letter grade or pass/no pass

The second course in a three-course sequence in listening and speaking skills for the workplace for ESL. Cultural, sociolinguistic and nonverbal communication strategies and norms for a U.S. workplace setting are identified, analyzed and practiced.

ESL 273

Read/Write for Work for ESL Level 2 90 hours lecture

5.0 units

Prerequisite: ESL 671 or ESL 271 **Recommended Preparation: Students are strongly** advised to enroll in ESL 272 and ESL 273 in the same semester.

Grading: letter grade or pass/no pass

The second course in a three-course sequence of reading and writing skills for the workplace for ESL. Sociolinguistic and organizational norms for writing in a U.S. workplace setting are identified, analyzed and practiced.

ESL 274

5.0 units Listen/Speak for Work for ESL Level 3 90 hours lecture Prerequisite: ESL 672 or ESL 272 **Recommended Preparation: Students are strongly** advised to enroll in ESL 274 and 275X in the same semester.

Grading: letter grade or pass/no pass

The third course in a three-course sequence in listening and speaking skills for the workplace for ESL. Cultural, sociolinguistic and nonverbal communication strategies and norms for a U.S. workplace setting are identified, analyzed and practiced.

ESL 275 Read/Write for Work for ESL Level 3 90 hours lecture Prerequisite: ESL 673 or ESL 273

Recommended Preparation: Students are strongly advised to enroll in ESL 274 and ESL 275 in the same semester.

Grading: letter grade or pass/no pass

Formerly ESL 275X. The third course in a three-course sequence of reading and writing skills for the workplace for ESL. Sociolinguistic and organizational norms for writing in a U.S. workplace setting are identified, analyzed and practiced.

ESL 602A0.0 unitReading Skills for ESL Students 127 hours lectureGrading: 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 800.

0.0 unit

0.0 unit

ESL 602B Reading Skills for ESL Students 2 27 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 801.

ESL 602C Reading Skills for ESL Students 3 27 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 802.

ESL 602D Reading Skills for ESL Students 4 27 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 803.

ESL 602E

0.0 unit

0.0 unit

Reading Skills for ESL Students 5 27 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 804.

ESL 602F Reading Skills for ESL Students 6 27 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 805.

0.0 unit

0.0 unit

ESL 610A Fundamentals of English Grammar 1 54 hours lecture

Recommended Preparation: ESL 645 Grading: LBCC non-graded course

This course is designed to support ESL students in the intermediate academic reading and/or writing classes. It is the first of a two-course sequence designed to introduce grammatical terminology and guide intermediate ESL students to mastery of the seven major parts of speech. ESL 610A emphasizes the use of verb tenses and agreement between subject and verb, article and noun, as well as verb and adverb. It emphasizes the correct construction of phrases, including noun, verb, and prepositional phrases, and simple sentences.

ESL 610B Fundamentals of English Grammar 2 54 hours lecture

Recommended Preparation: ESL 610A Grading: LBCC non-graded course

This course is designed for advanced ESL students in the advanced academic reading and/or writing classes. It is the second of a two-course sequence designed for advanced ESL students. It enables students to master correct English word order at the phrase, simple sentence, compound sentence and complex sentence level. Students continue to master the usage and word order of the seven major parts of speech, the relationship between phrases and clauses, and the relationship between independent and dependent clauses, focusing on adverbial phrases, noun clauses, adjective clauses, and adverbial/subordinate clauses.

ESL 612 0.0 unit Reading for Information and Pleasure 27 hours lecture

Prerequisite: ESL 645 or ESL 845 Grading: LBCC non-graded course

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. COURSES

0.0 unit

0.0 unit

ESL 613 Conversation 27 hours lecture Prerequisite: ESL 645 or ESL 845 Grading: LBCC non-graded course

This course develops conversational competence and confidence in whole-class, small-group, and partner interactions. Emphasis is on the comprehension and evaluation of oral communications as students practice expressing opinions, feelings, ideas, and abstract concepts.

ESL 614 Composition for ESL Students 27 hours lecture Prerequisite: ESL 645 or ESL 845 Grading: LBCC non-graded course

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

ESL 6150.0 unitAccent Reduction108 hours lecturePrerequisite: ESL 645 or ESL 845Grading: LBCC non-graded course

This intensive semester-long pronunciation 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 communication.

ESL 618 Vocabulary Development 54 hours lecture Recommended Preparation: ESL 645 Grading: LBCC non-graded course

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.

ESL 628 0.0 unit Literacy for English Language Learners 1 27 hours lecture

Grading: LBCC non-graded course

The first course in a two-course sequence to develop literacy skills of English language learners.

ESL6290.0 unitLiteracy for English Language Learners 227 hours lectureRecommended Preparation: Placement into this class is

via ESL department assessment Grading: LBCC non-graded course

The second course in a two-course sequence to develop literacy skills of English language learners.

ESL6300.0 unitReading for Citizenship 154 hours lectureRecommended Preparation: Placement is determined via

assessment by ESL department faculty

Grading: LBCC non-graded course

The first course in a two-course sequence for beginning level English language learners. Students will develop the language competency through content-based instruction in order to take the U.S. citizenship examination.

ESL6310.0 unitReading for Citizenship 254 hours lectureRecommended Preparation: Placement is determined viaassessment by ESL department faculty

Grading: LBCC non-graded course

The second course in a two-course sequence for beginning level English language learners. Students will develop the language competency through contentbased instruction in order to take the U.S. citizenship examination.

ESL 632AX Reading for Citizenship AX 72 hours lecture

0.0 unit

Recommended Preparation: Placement is determined via assessment by ESL department faculty Grading: LBCC non-graded course A compressed reading for citizenship course for highbeginner English language learners. Students will develop language competency through content-based instruction in order to prepare for the U.S. citizenship examination.

ESL 640 English for Everyday 0 108 hours lecture Grading: LBCC non-graded course

0.0 unit

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 English for Everyday 1 108 hours lecture

0.0 unit

0.0 unit

Prerequisite: ESL 640 or ESL 840 or qualification through the LBCC assessment process for ESL 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 English for Everyday 2 108 hours lecture

Prerequisite: ESL 641 or ESL 841 or qualification through the LBCC assessment process for ESL 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 for natives.

0.0 unit

0.0 unit

ESL 643	0.0 unit
English for Everyday 3	
108 hours lecture	
Prerequisite: ESL 642 or ESL 842 or qualification	ition through
the LBCC assessment process for ESL	
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 4 108 hours lecture

Prerequisite: ESL 643 or ESL 843 or qualification through the LBCC assessment process for ESL 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.

ESL6450.0 unitEnglish for Everyday 5108 hours lecturePrerequisite: ESL 644 or ESL 844 or qualification through
the LBCC assessment process for ESL

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.

0.0 unit

ESL 670

Listen/Speak for Work for ESL Level 1 90 hours lecture

Prerequisite: ESL 844 or ESL 644 Recommended Preparation: Students are strongly advised to enroll in ESL 670 and ESL 671X in the same semester Grading: LBCC non-graded course The first course in a three-course sequence in listening and speaking skills for the workplace for ESL. Cultural, sociolinguistic and nonverbal communication strategies and norms for a U.S. workplace setting are identified, analyzed and practiced.

ESL 671 Read/Write for Work for ESL Level 1 90 hours lecture

Prerequisite: ESL 844 or ESL 644 Recommended Preparation: Students are strongly advised to enroll in ESL 670 and ESL 671 in the same semester Grading: LBCC non-graded course

Formerly ESL 671X. The first course in a three-course sequence of reading and writing skills for the workplace for ESL. Sociolinguistic and organizational norms for writing in a U.S. workplace setting are identified, analyzed and practiced.

ESL 672 Listen/Speak for Work for ESL Level 2 90 hours lecture

Prerequisite: ESL 670 or ESL 270 Recommended Preparation: Students are strongly advised to enroll in ESL 672 and ESL 673X in the same semester Grading: LBCC non-graded course

The second course in a three-course sequence in listening and speaking skills for the workplace for ESL. Cultural, sociolinguistic and nonverbal communication strategies and norms for a U.S. workplace setting are identified, analyzed and practiced.

ESL 673 0.0 unit Read/Write for Work for ESL Level 2 90 hours lecture

Prerequisite: ESL 671 or ESL 271 Recommended Preparation: Students are strongly advised to enroll in ESL 672 and ESL 673 in the same semester Grading: LBCC non-graded course

Formerly ESL 673X. The second course in a three-course sequence of reading and writing skills for the workplace for ESL. Sociolinguistic and organizational norms for writing in a U.S. workplace setting are identified, analyzed and practiced.

ESL 674 0.0 unit Listen/Speak for Work for ESL Level 3

Listen/Speak for Work for ESL Level 3 90 hours lecture Prerequisite: ESL 672 or ESL 272

Recommended Preparation: Students are strongly advised to enroll in ESL 674 and ESL 675X in the same semester

Grading: LBCC non-graded course

The third course in a three-course sequence in listening and speaking skills for the workplace for ESL. Cultural, sociolinguistic and nonverbal communication strategies and norms for a U.S. workplace setting are identified, analyzed and practiced.

ESL 675 0.0 unit Read/Write for Work for ESL Level 3 90 hours lecture

Prerequisite: ESL 673 or ESL 273 Recommended Preparation: Students are strongly advised to enroll in ESL 674 and ESL 675 in the same semester Grading: LBCC non-graded course

Formerly ESL 675X. The third course in a three-course sequence of reading and writing skills for the workplace for ESL. Sociolinguistic and organizational norms for writing in a U.S. workplace setting are identified, analyzed and practiced.

ESL 800	1.5 units
Reading Skills for ESL Students 1	
27 hours lecture	
Grading: pass/no pass	

Formerly ESL 800AB. 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 800 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.

ESL8011.5 unitsReading Skills for ESL Students 227 hours lectureRecommended Preparation: ESL 800Grading: pass/no pass

Formerly ESL 801AB. 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 801 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 800 and in addition learn to analyze a passage for specific content and define words in context.

ESL 802 Reading Skills for ESL Students 3 27 hours lecture Recommended Preparation: ESL 801 Grading: pass/no pass

Formerly ESL 802AB. 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 802 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 801 and in addition learn to analyze a passage for specific content and define words in context.

ESL8031.5 unitsReading Skills for ESL Students 427 hours lectureRecommended Preparation: ESL 802Grading: pass/no pass

Formerly ESL 803AB. 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 803 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 802 and in addition learn to make inferences and support opinions about reading selections.

ESL8041.5 unitsReading Skills for ESL Students 527 hours lectureRecommended Preparation: ESL 803Grading: pass/no pass

Formerly ESL 804AB. This fifth course in a series of seven reading skills courses is designed to teach ESL students

1.5 units

how to read, comprehend what they read and build vocabulary. ESL 804 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 803 and in addition learn to compare characters in readings and differentiate word meaning by context.

ESL8051.5 unitsReading Skills for ESL Students 627 hours lectureRecommended Preparation: ESL 804Grading: pass/no pass

Formerly ESL 805AB. 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 805 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 804 and in addition learn to identify central conflicts of stories and make inferences based on facts and details.

ESL 810A 3.0 units Fundamentals of English Grammar 1

54 hours lecture

Recommended Preparation: ESL 645 or ESL 845 or qualification through the LBCC assessment process for ESL

Grading: pass/no pass

Formerly ESL 810. This course is designed for ESL students in the reading (ESL 860-861) and/or writing (ESL 54X/56X, ENGL 801 A /B) classes. It is the first of a two-course sequence designed to introduce grammatical terminology and guide intermediate ESL students to mastery of the seven major parts of speech. ESL 810A emphasizes the use of verb tenses and agreement between subject and verb, article and noun, as well as verb and adverb. It emphasizes the correct construction of phrases, including noun, verb, and prepositional phrases, and simple sentences.

ESL 810B

Fundamentals of English Grammar 2 54 hours lecture

Recommended Preparation: ESL 810A or qualification through the LBCC assessment process for ESL Grading: pass/no pass

3.0 units

This course is designed for ESL students in the reading (ESL 862-863/READ 82) and/or writing (ESL 33X/34X, ENGL 105, 1) classes. This course is the second of a twocourse sequence designed for high-intermediate ESL students. It enables students to master correct English word order at the phrase, simple sentence, compound sentence and complex sentence level. Students continue to master the usage and word order of the seven major parts of speech, the relationship between phrases and clauses, and the relationship between independent and dependent clauses, focusing on adverbial phrases, noun clauses, adjective clauses, and adverbial/subordinate clauses.

ESL 812 Reading for Information and Pleasure 27 hours lecture

Prerequisite: ESL 645 or ESL 845 or qualification through the LBCC assessment process for ESL Grading: pass/no pass

Formerly ESL 812AB. 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.

ESL 813 Conversation 27 hours lecture Prerequisite: ESL 64

1.5 units

1.5 units

1.5 units

Prerequisite: ESL 645 or ESL 845 or qualification through the LBCC assessment process for ESL Grading: pass/no pass

Formerly ESL 813AB. This course develops conversational competence and confidence in whole-class, small-group, and partner interactions. Emphasis is on the comprehension and evaluation of oral communications as students practice expressing opinions, feelings, ideas, and abstract concepts.

ESL 814 Composition for ESL Students 27 hours lecture

Prerequisite: ESL 645 or ESL 845 or qualification through the LBCC assessment process for ESL 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.

ESL 815 Accent Reduction

6.0 units

3.0 units

6.0 units

108 hours lecture

Prerequisite: ESL 645 or ESL 845 or qualification through the LBCC assessment process for ESL Grading: pass/no pass

Formerly ESL 815AB. This intensive semester-long pronunciation course for intermediate to advanced nonnative 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 communication.

ESL 818 **Vocabulary Development** 54 hours lecture

Prerequisite: ESL 645 or ESL 845 or gualification through the LBCC assessment process for ESL. Grading: pass/no pass

Formerly ESL 818AB. 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.

ESL 840 **English for Everyday 0** 108 hours lecture Grading: pass/no pass

Formerly ESL 840AB. This course is the first of a sixcourse 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.

LONG BEACH CITY COLLEGE

6.0 units

ESL 841 **English for Everyday 1** 108 hours lecture

Prerequisite: ESL 640 or ESL 840 or gualification through the LBCC assessment process for ESL. Grading: pass/no pass

Formerly ESL 841AB. This course is the second of a sixcourse 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 842 6.0 units **English for Everyday 2 108 hours lecture** Prerequisite: ESL 641 or ESL 841 or qualification through the LBCC assessment process for ESL

Grading: pass/no pass

Formerly ESL 842AB. This course is the third in a sixcourse 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 for natives.

ESL 843 **English for Everyday 3** 108 hours lecture

Prerequisite: ESL 642 or ESL 842 or gualification through the LBCC assessment process for ESL Grading: pass/no pass

Formerly ESL 843AB. This course is the fourth of a sixcourse series in the basics of English language 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 mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

ESL 844	6.0 units
English for Everyday 4	
108 hours lecture	
Prerequisite: ESL 643 or ESL 843 or qualification	tion through
the LBCC assessment process for ESL	
Grading: pass/no pass	

Formerly ESL 844AB. This course is the fifth of a sixcourse 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 producing grammatical features and on comprehending spoken and written standard North American English.

ESL 845 6.0 units English for Everyday 5 108 hours lecture

Prerequisite: ESL 644 or ESL 844 or qualification through the LBCC assessment process for ESL Grading: pass/no pass

Formerly ESL 845AB. This course is the sixth of a sixcourse 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 860 5.0 units Reading & Vocabulary 1 90 hours lecture Prerequisite: ESL 147 or qualification through the LBCC assessment process for ESL Grading: pass/no pass

This course is an initiation to academic English reading, focusing on the foundational skills necessary to decode and comprehend academic discourse, including an introduction to morphology and syntax. Recommended for non-native speakers of English.

5.0 units

ESL 861 Reading & Vocabulary 2 90 hours lecture

Prerequisite: ESL 860 or READ 880 or qualification through the LBCC assessment process for reading Grading: pass/no pass

This course focuses on reading skills including comprehension, vocabulary development and strategies

for fluent reading of academic texts. More emphasis is placed on morphological and syntactical structures in addition to semantic cues. Recommended for non-native speakers of English.

ESL 862 Reading & Vocabulary 3 90 hours lecture Prerequisite: ESL 861 or 0

5.0 units

90 hours lecture Prerequisite: ESL 861 or qualification through the LBCC assessment process for reading Grading: pass/no pass

This course develops essential reading concepts, focusing on reading improvement strategies, vocabulary enrichment, interpretation of extra-textual information, and English language development. Exposure to longer text selections provides opportunities for applying academic reading skills.

ESL 863 Reading & Vocabulary 4 90 hours lecture

5.0 units

Prerequisite: ESL 862 or qualification through the LBCC assessment process for reading Grading: pass/no pass

In this course, students will continue learning academic reading skills presented in ESL 860, 861, and 862. The emphasis is on critical reading of expository prose and the acquisition of advanced comprehension skills and strategies necessary for success in content courses, including advanced paragraph and essay comprehension, critical reading, and rhetorical patterns. This course provides instruction in the strategies necessary for academic college reading with an emphasis on the application of comprehension, vocabulary and critical reading skills in academic texts. Recommended for nonnative speakers of English.

ENGLISH AS A SECOND LANGUAGE, LEARNING CENTER

ESLLC 699 Basic Skills for ESL Students 54 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.

ENGINEERING TECHNOLOGY (ETEC)

ETEC 10

1.0 unit

Introduction to Engineering Technology 18 hours lecture Grading: letter grade or pass/no pass

Formerly TEC 10. This course explores the varied branches of engineering technology, the functions of an engineer technologist, and the differences between a traditional engineering pathway and an engineering technology pathway. Students will explore industries in which an engineering technologist would be employed and explore effective strategies for students to reach their full academic potential. The course will cover an introduction to the methods and tools of engineering technology, problem solving and design, current issues in society, and ethics as related to engineering technology. Students will be introduced to communication skills pertinent to engineering technology professions. Transferable to UC or CSU; see counselor for limitations

ETEC 20

2.5 units

Introduction to Engineering and Design 36 hours lecture, 36 hours laboratory Grading: letter grade or pass/no pass

Formerly TEC 20. In this course, students will gain a basic understanding of the design process used in engineering fields and the application of computer modeling software. Emphasis is placed on the design process, geometric relationships, multi-view drawings and assembly drawings per American Society of Mechanical Engineers Y14.5 (ASME Y14.5) standards, drawings for production and various manufacturing processes, modeling, 3D printing and packaging. Transferable to UC or CSU; see counselor for limitations

ETEC 30

2.5 units

Principles of Engineering Technology 36 hours lecture, 36 hours laboratory Recommended Preparation: MATH 110 or MATH 110B or **MATH 880**

Grading: letter grade or pass/no pass

Formerly TEC 30. This course introduces the student to principles of engineering technology by the use of activity-based learning, project-based learning, and problem-based learning. The student will learn about the design process, communication and documentation, engineering systems, statics and strength of materials, properties of materials and materials testing, reliability, and kinematics.

Transferable to UC or CSU; see counselor for limitations

ETEC 40 **Electronics for Engineering Technology** 36 hours lecture, 36 hours laboratory

Recommended Preparation: MATH 110, 100B or 880 Grading: letter grade or pass/no pass Formerly TEC 40. In this course, students are introduced to the applications in electronics in engineering technology. The topics include safety, Ohm's Law, engineering notation, direct current circuits, capacitance, inductance, impedance, analog and digital waveforms, basic motors, number systems, logic gates, Boolean algebra, flip-flops, shift registers, and micro-processors. Techniques in computer simulation and electrical measurements will be stressed. *This is a non-math based course that transfers to an Engineering Technology program.

Transferable to CSU

ETEC 60 **Material Science for Engineering Tech** 54 hours lecture Grading: letter grade or pass/no pass

3.0 units

2.5 units

This course is a study of the chemical, physical and mechanical properties of industrial materials including metals, ceramics, polymers, and composites. The course emphasizes the processes and tests used with different industrial materials during the manufacturing cycles. It also discusses function and structure as they relate to specific design considerations. This course is designed for students who are currently working in a manufacturing plant or pursuing a career in the engineering technology field.

Transferable to CSU

ETHNIC STUDIES (ETHST)

ETHST 1

3.0 units

Introduction to Ethnic Studies 54 hours lecture Grading: letter grade

This introductory course will take an interdisciplinary and intersectional approach to the examination of the historical, cultural, economic and political issues that impact ethnic/racial groups within the United States,

0.5 unit

with a specific focus the African American, Asian American, Indigenous/American Indian/Native American, and Chicana/o and Latina/o communities. Utilizing a socio-historical scope, this course will analyze how racial formations have been historically constructed and resisted, as well as, provide theoretical frameworks to identify and understand the modalities of white supremacy, and to combat racism, in a comparative context, over time in in contemporary society. Transferable to CSU

ETHST 1H Honors Introduction to Ethnic Studies 54 hours lecture

3.0 units

Prerequisite: Qualification for the Honors Program Grading: letter grade

This introductory course will take an interdisciplinary and intersectional approach to the examination of the historical, cultural, economic and political issues that impact ethnic/racial groups within the United States, with a specific focus the African American, Asian American, Indigenous/American Indian/Native American, and Chicana/o and Latina/o communities. Utilizing a socio-historical scope, this course will analyze how racial formations have been historically constructed and resisted, as well as, provide theoretical frameworks to identify and understand the modalities of white supremacy, and to combat racism, in a comparative context, over time in in contemporary society. Transferable to CSU

ENGLISH, WRITING READING CENTER (EWRC)

0.5 unit

EWRC 890 Sentence Structure 4 hours lecture, 16 hours laboratory Grading: pass/no pass

Formerly EWRC 890AD. 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 891 0.5 unit **Spelling Principles** 4 hours lecture, 16 hours laboratory Grading: pass/no pass

Formerly EWRC 891AD. This course assesses individual spelling needs through a developmentally appropriate tool and provides instruction based on individual need.

EWRC 893 Punctuation 4 hours lecture, 16 hours laboratory Grading: pass/no pass

Formerly EWRC 893AC. This course offers instruction and practice in a variety of punctuation skills and is available to students enrolled in classes in any discipline. **EWRC 895** 0.5 unit **Functional Writing** 5 hours lecture, 13 hours laboratory Grading: pass/no pass

Formerly EWRC 895AB. 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 897 Developmental Writing 7 hours lecture, 34 hours laboratory Prerequisite: ENGL 105 or 801A or 801B Grading: pass/no pass

Formerly EWRC 897AD. 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 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 899 English Adjunct 4 hours lecture, 16 hours laboratory Grading: pass/no pass

0.5 unit

1.0 unit

Formerly EWRC 899AD. 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.

3.0 units

3.0 units

3.0 units

FAMILY AND CONSUMER STUDIES (FACS)

FACS 50 Consumer Awareness 54 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. Transferable to CSU

3.0 units

FACS 643.0 unitsLife Management54 hours lectureGrading: 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. Transferable to CSU

FASHION (FD)

FD 3

2.0 units

2.0 units

36 hours lecture Grading: letter grade or pass/no pass

Intro to Careers in Design/Merchandising

This course surveys the fashion industry and related occupations emphasizing employment opportunities, personal qualifications and skills required for employment. Transferable to CSU

FD 5
Product Development
36 hours lecture
Grading: letter grade or pass/no pass

This course covers the process of product development in the apparel industry; from the design concept through sourcing and costing to the production of a clothing line. Transferable to CSU

FD 9Clothing Selection54 hours lectureGrading: letter grade or pass/no pass

Apparel selection based on aesthetic guidelines, cultural influences, quality, workmanship and consumer needs. This course covers the basic elements and principles of art as applied to clothing and is required for fashion design and merchandising majors. Transferable to CSU

FD 10 Textile Fibers and Fabrics 54 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.

Transferable to UC or CSU; see counselor for limitations

FD 20
Introduction to the Fashion Industry
54 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 fashion, from its history, cyclical nature and development to the materials, producers, and retailers that influence the business on a global level. Also covers the latest industry trends, including developments in sustainability and the impact of social media on fashion marketing. Transferable to CSU

FD 21
Quick Sketch Croquis Drawing
18 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

LONG BEACH CITY COLLEGE

Formerly FD 214 and FD 214AB. Beginning sketch course focusing on drawing skills necessary for the fashion industry. Learn to draw all aspects of garments on the figure and in flat technical drawings using a croquis (template). Render a variety fabric textures in color using marker techniques. Focus on portfolio formats. Transferable to CSU

FD 23 4.0 units Fashion/Merchandise Buying 72 hours lecture

Grading: letter grade or pass/no pass

This course is designed to provide knowledge of the functions of buying merchandise for retail or wholesale businesses. It is required for all Fashion Merchandising Majors.

Transferable to CSU

FD243.0 unitsFundamentals of Apparel Construction36 hours lecture, 54 hours laboratoryGrading: letter grade or pass/no pass

Formerly FD 24AB. This course covers the construction of simple garments using industry methods of clothing construction techniques. Principles and methods related to constructing both woven and knit fabrics will be covered.

Transferable to CSU

FD253.0 unitsIntermediate Apparel Construction36 hours lecture, 54 hours laboratoryGrading: letter grade or pass/no pass

Formerly FD 25AB. An intermediate level clothing construction class using the latest industry methods and focusing on woven fabrics. Typical projects include a shirt or blouse, fitted slacks with a waistband and a fully lined dress with princess seaming. Transferable to CSU

FD 26

2.0 units

Advanced Sewing and Tailoring Techniques 18 hours lecture, 54 hours laboratory Recommended Preparation: FD 24 and FD 25 Grading: letter grade or pass/no pass

Formerly FD 26AB. This course uses advanced construction techniques and traditional tailoring steps for jacket construction. The course will also cover

working with slippery, difficult fabrics and complex patterns. Transferable to CSU

FD 27

1.5 units

3.0 units

Production Sewing 18 hours lecture, 36 hours laboratory Recommended Preparation: FD 24 Grading: letter grade or pass/no pass

Formerly FD 27AB. This course focuses on the principles and methods of stitching and garment construction on power industrial machines as applied to factory production methods of the garment manufacturing industry. Transferable to CSU

FD 32 History of Fashion 54 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 dress as a social record and how dress has influenced lifestyle, culture and contemporary fashions. The course emphasizes the effects of dress and relationships to political, social and economic conditions. Transferable to CSU

ransferable to CS

FD 363.0 unitsFlat Pattern Drafting36 hours lecture, 54 hours laboratoryRecommended Preparation: FD 24 or beginning sewingskillsConditional lattern processing severation (see more severation)

Grading: letter grade or pass/no pass

Formerly FD36A and FD36B. This is a beginning course in flat pattern drafting. Students will develop a basic pattern block and learn to manipulate the block to create patterns for a variety of garment styles. Transferable to CSU

FD 37

3.0 units

Pattern Draping 36 hours lecture, 54 hours laboratory Recommended Preparation: FD 24 Grading: letter grade or pass/no pass

Formerly FD 37A and FD 37B. 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. Transferable to CSU

FD 38A **Fashion Design I**

3.0 units

36 hours lecture, 54 hours laboratory

Recommended Preparation: FD 21, FD 24, FD 25, FD 36 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. Transferable to CSU

FD 38B

3.0 units

Fashion Design II 36 hours lecture, 54 hours laboratory Recommended Preparation: FD 24, FD 25, FD 37 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. Transferable to CSU

FD 38C 3.0 units **Fashion Design III** 36 hours lecture, 54 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 research, illustrate, develop patterns, design and merchandise a sportswear grouping and construct fullscale designs for a portfolio or fashion showing. Transferable to CSU

FD 38D 3.0 units **Fashion Design IV** 36 hours lecture, 54 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. Transferable to CSU

1.0 unit **Garment Technical Packages**

18 hours lecture, 9 hours laboratory Recommended Preparation: FD 24 and FD 45 Grading: letter grade or pass/no pass

Formerly FD 39A. This course covers the development of offshore technical packages that include men's and women's woven and knit garments and garment knockoffs. The course includes pattern adjustments to achieve proper fit, garments specifications, quality control and package specifications, identification of seams, construction details, trims, and labels for garments. Students will learn to fit a variety of garments to gain a knowledge of correct terminology and be able to communicate fit comments. Transferable to CSU

FD 40

FD 39

Advanced and Production Pattern Drafting 18 hours lecture, 36 hours laboratory **Recommended Preparation: FD 36** Grading: letter grade or pass/no pass

Formerly FD 40AB. 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.

Transferable to CSU

FD 41 **Fashion Promotion** 36 hours lecture, 36 hours laboratory

2.5 units

1.5 units

Grading: letter grade or pass/no pass

Formerly FD 41AD. A study of the concepts, practices and procedures related to fashion promotion. Emphasis on the development of concepts, planning, budgeting, social media, and production of fashion promotion. Includes "hands-on" experience producing an actual event. Transferable to CSU

FD 45 **Digital Fashion Illustration** 54 hours lecture Grading: letter grade or pass/no pass

LONG BEACH CITY COLLEGE

Formerly FD 45A. This beginning course is designed to teach students to effectively apply design elements and principles to create mood/trend boards, textile surface designs, and proportional technical flat sketches. Students create lines sheets and a tech pack. Current fashion design computer software such as Adobe Illustrator and Photoshop are used. Transferable to CSU

FD461.5 unitsAdvanced Digital Fashion Illustration18 hours lecture, 36 hours laboratoryGrading: letter grade or pass/no pass

Formerly FD 45B. This Advanced course is designed for students with basic digital fashion illustration skills. The students will develop mastery of computer fashion sketching skills emphasizing the development of ideas in relation to personal/individual concepts. Students will learn to create a digital fashion croquis. There is an emphasis on the refinement of technical skills using current fashion design computer software such as Adobe Illustrator and Photoshop. Transferable to CSU

FD2001.0 unitTrend Forecasting18 hours lectureGrading: letter grade or pass/no pass

This course presents techniques for identifying and forecasting trends in the fashion industry. Students will learn to recognize and analyze current trends to create their own fashion forecasts.

FD2102.0 unitsFashion Styling36 hours lectureGrading: letter grade or pass/no pass

This course prepares students for entry-level positions in the field of fashion styling for social media, retail, product advertising, celebrities and influencers, red carpet events, wardrobe planning and film.

1.0 unit

FD 213Textile Surface Design9 hours lecture, 27 hours laboratoryGrading: letter grade

Formerly FD 213AB. This course focuses on specialty hand techniques of surface design on textiles. Students will gain experience in creating designs using industry standard techniques such as block printing, beading, embroidery, and tie dye.

FD2152.0 unitsFashion Sketching I18 hours lecture, 54 hours laboratory54 hours laboratoryGrading: letter grade or pass/no pass54 hours laboratory

Formerly FD215AB. This is a beginning drawing class for both design and merchandising students that stresses the development of elongated fashion figures. The course will cover figure proportion, body movement, action poses, head, hand, foot and leg studies. Students will draw a variety of garments on the fashion figures and experiment with rendering techniques for a variety of fabric textures using design markers, designer's gouache and colored pencils.

FD2162.0 unitsFashion Portfolio Development1818 hours lecture, 54 hours laboratoryPrerequisite: FD 45 or FD 45AGrading: letter grade or pass/no pass

Formerly FD 216AB. This advanced course focuses on the skills necessary to produce a well-organized and thoroughly planned online portfolio and portfolio book to be presented on job interviews. The class emphasizes drawing digital flat technical drawings, creating textile prints, creating and rendering a fashion figure, and layout techniques for line presentation.

FD2300.5 unitFashion Design Laboratory27 hours laboratoryCorequisite: Concurrent enrollment in a fashion design
courseGrading: pass/no pass

Formerly FD 230AD. 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.

FD2310.5 unitFashion Design Lab-Garment Closures27 hours laboratoryCorequisite: FD 38A or FD 38B or FD 38C or FD 38DGrading: pass/no pass

This course focuses on creating garment closures, facings and linings. Students will have access to specialized equipment in the fashion design lab. Students completing 27 hours of lab work during the semester will receive .5 unit of credit.

2.5 units

FD 240 Fashion Promotion and Management 36 hours lecture, 36 hours laboratory Prerequisite: FD 41

Grading: letter grade or pass/no pass

An advanced study of the concepts, practices and procedures related to fashion promotion. Emphasis on leadership, communication, development of concepts, planning, budgeting, social media, and production of fashion promotion events.

FD2441.0 unitComputer Patternmaking18 hours lecture, 18 hours laboratoryGrading: letter grade or pass/no pass

Formerly FD 244AD. This course is designed to provide hands-on training utilizing the latest versions of apparel pattern making software technology, such as Accumark V12 (Pattern Design System by Gerber Technology). Industry techniques and methods for creating and manipulating apparel patterns are presented.

FD2581.0 unitSwimwear9 hours lecture, 27 hours laboratoryRecommended Preparation: FD 24Grading: letter grade or pass/no pass

Formerly FD 258AD. 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. It is recommended that students sew at an intermediate sewing level to be successful in this course.

FD271WE1.0 - 4.0 unitsWork Experience-Fashion Design72 hours laboratoryGrading: letter grade or pass/no pass

Students learn and gain on-the-job experience in the fashion field. Learning objectives are established collaboratively by the student, supervisor, and instructor. A minimum of sixty (60) hours of non-paid work or seventy-five (75) hours of paid work during the semester are required for each unit of credit. Students may earn from 1 to 4 units credit. *Note: Transfer limitations

FD 613

0.0 unit

Textile Surface Design 9 hours lecture, 27 hours laboratory Grading: LBCC non-graded course

This course focuses on specialty hand techniques of surface design on textiles. Students will gain experience in creating designs using industry standard techniques such as block printing, beading, embroidery, and tie dye.

FD6240.0 unitFundamentals of Apparel Construction36 hours lecture, 54 hours laboratoryGrading: LBCC non-graded course

This course covers the construction of simple garments using industry methods of clothing construction techniques. Principles and methods related to constructing both woven and knit fabrics will be covered.

FD 625 Intermediate Apparel Construction 36 hours lecture, 54 hours laboratory Recommended Preparation: FD 624 Grading: LBCC non-graded course 0.0 unit

An intermediate level clothing construction class using the latest industry methods and focusing on woven fabrics. Typical projects include a shirt or blouse, fitted slacks with a waistband and a fully lined dress with princess seaming.

FD6260.0 unitAdvanced Sewing and Tailoring Techniques18 hours lecture, 54 hours laboratoryRecommended Preparation: FD 625Grading: LBCC non-graded course

This course uses advanced construction techniques and traditional tailoring steps for jacket construction. The course will also cover working with slippery, difficult fabrics and complex patterns.

FD 627 Production Sewing 18 hours lecture, 36 hours laboratory Recommended Preparation: FD 624 Grading: LBCC non-graded course

LONG BEACH CITY COLLEGE

This course focuses on the principles and methods of stitching and garment construction on power industrial machines as applied to factory production methods of the garment manufacturing industry.

FD6300.0 unitFashion Design Laboratory27 hours laboratory27 hours laboratoryGrading: LBCC non-graded course

This course provides the student enrolled in a Fashion Design course an opportunity for additional hours working in the Fashion Design Lab and additional instruction from a lab aide, instructor or student tutor. Lab time is assigned on a space available basis.

0.0 unit

3.0 units

FD 658 Swimwear 9 hours lecture, 27 hours laboratory Recommended Preparation: FD 624 Grading: LBCC non-graded course

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. It is recommended that students sew at an intermediate sewing level to be successful in this course.

FILM (FILM)

 FILM 1 (C-ID FTVE 105)
 3.0 units

 Introduction to Film Studies

 54 hours lecture

Recommended Preparation: ENGL 105 or ESL 34X or qualify for ENGL 1 through the assessment process Grading: letter grade or pass/no pass

An introduction to the art of cinema through lecture, discussion, and screening of a wide variety of films and related media. This course examines aesthetic elements such as cinematography, production design (mise en scène), editing, sound design, and performance styles, in addition to exploring other aspects of filmmaking, cinematic representation, spectatorship, and cultural ideologies.

Transferable to UC or CSU; see counselor for limitations

FILM 2A Film History I 54 hours lecture Recommended Preparation: FILM 1 Grading: letter grade or pass/no pass This course charts the history of cinema from its invention to World War II. Significant technologies, aesthetic innovations, cultural/industrial contexts, and film movements in both American and international cinema will be covered, in addition to examining the work of several key filmmakers.

Transferable to UC or CSU; see counselor for limitations

FILM 2B3.0 unitsFilm History II54 hours lectureRecommended Preparation: FILM 1Grading: letter grade or pass/no pass

This course is a study of the trajectory of film history from World War II to the present. The course will focus on significant cinematic movements and styles in both American and international cinema, technological developments and shifts and their effect on the larger industrial complex, and the work of several historically significant filmmakers.

Transferable to UC or CSU; see counselor for limitations

3.0 units

FILM 10 Film Genres 54 hours lecture Recommended Preparation: FILM 1 Grading: letter grade or pass/no pass

This introductory course surveys the historical development and progression of popular film genres while also exploring their artistic, social, cultural, political, and ideological contexts. Types of genres explored in this course include, but are not limited to, science-fiction, western, gangster, crime and detective thriller ("film noir"), musical, comedy, melodrama, horror film, and/or documentary. The particular genre(s) of study will change each semester, based upon the instructor's choice.

Transferable to UC or CSU; see counselor for limitations

FILM 113.0 unitsFilm Directors and Artists54 hours lectureRecommended Preparation: FILM 1Grading: letter grade or pass/no pass

This class involves a survey and critical analysis of films by various cinema and media directors within the film and media industries. The class will deconstruct a director's or a collection of directors' work (instructor's choice) throughout the course of the semester, focusing on aesthetic, thematic, ideological, socio-cultural,

3.0 units

historical, industrial, geographical and/or political continuities and shifts that span the director's/directors' career(s). Students will be expected to articulate specific insights of the director's/directors' work through essay writing, in-class activities, critical and creative projects, and quizzes and exams.

Transferable to UC or CSU; see counselor for limitations

FILM 20 (C-ID FTVE 130*)3.0 unitsFundamentals of Digital Film Production36 hours lecture, 72 hours laboratoryPrerequisite: 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 and lab workshops as well as group and individual projects. Transferable to UC or CSU; see counselor for limitations

FILM 21 (C-ID FTVE 150)3.0 unitsIntermediate Digital Film Production36 hours lecture, 72 hours laboratoryPrerequisite: FILM 20Recommended Preparation: FILM 40Grading: letter grade or pass/no pass

This is an intermediate film production course, where students build on the introductory skills and knowledge gained in Film 20. In this course, students will write, preproduce, produce, direct and edit their own 10-minute short film.

Transferable to UC or CSU; see counselor for limitations

FILM 253.0 unitsIntroduction to Digital Cinematography36 hours lecture, 72 hours laboratoryPrerequisite: FILM 20Grading: letter grade or pass/no pass

This course provides Introduction to the fundamental technical and aesthetic principles of motion picture digital photography. Students are instructed in practical training in the use of motion picture cameras, with an introduction to image control through exposure, lighting, and selection of camera, lenses, and filters. The course also offers an examination of the cinematographer as a visual storyteller to develop a broader understanding of the balance between artist and technician as well as an examination of the different crew positions and processes of the camera crew.

Transferable to UC or CSU; see counselor for limitations

FILM 40 (C-ID FTVE 110*) Introduction to Screenwriting 54 hours lecture Recommended Preparation: FILM 1 Grading: letter grade or pass/no pass

This course offers basic techniques of short subject dramatic screenplay structure and storytelling. This includes script development from story concept, character design, story treatment, plot and character development. Transferable to CSU

FILM 270WE1.0 - 4.0 unitsWork Experience-Film72 hours laboratoryGrading: letter grade or pass/no pass

Students learn and gain on-the-job experience in the Film industry. Learning objectives are established collaboratively by the student, supervisor, and instructor. A minimum of sixty (60) hours of non-paid work or seventy-five (75) hours of paid work during the semester are required for each unit of credit. Students may earn from 1 to 4 units credit. Prior approval by Film program faculty and compliance with Work Experience regulations as designated in the College Catalog. Qualification for enrollment. Instructor will verify prerequisites and qualifications: 1) completed work experience orientation; 2) submitted work experience application.

FIRE SCIENCE (FIRE)

FIRE 1 Fire Protection Organization 54 hours lecture Grading: letter grade 3.0 units

This course outlines the components of fire protection and career opportunities in fire protection and suppression fields; introduction to the philosophy and history of fire protection and analysis of the effects of fire losses to the community; the organization and functions of public and private fire protection and emergency services and fire departments as part of local governments including the laws and regulations affecting the fire service; fire service nomenclature, specific fire protection functions, and the culture of the fire service; basic fire chemistry and physics, and fire strategy and tactics.

Transferable to CSU

FIRE 2	3.0 units
Fire Prevention Technology	
54 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. Transferable to CSU

FIRE 3 3.0 units Fire Protection Equipment and Systems 54 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. Transferable to CSU

FIRE 4 3.0 units Building Construction 54 hours lecture Grading: letter grade

This course covers 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. Fires which have occurred in residential, commercial, and industrial buildings are examined and used to illustrate the development and evolution of building and fire codes. An off-site field trip to examine a building under construction is scheduled during regular class hours. Transferable to CSU

FIRE 5 Fire Behavior and Combustion 54 hours lecture Grading: letter grade

3.0 units

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. Transferable to CSU

FIRE 53 Fire Hydraulics 54 hours lecture Grading: letter grade 3.0 units

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. Transferable to CSU

FIRE 54 Hazardous Materials 1 54 hours lecture Grading: letter grade 3.0 units

3.0 units

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. Transferable to CSU

FIRE 57 Introduction to Fire Tactics & Strategy 54 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. Attendance and participation at two

scheduled field trips will be required during the course. Transferable to CSU

3.0 units

3.0 units

FIRE 58 Intro to Fire Company Administration 54 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 an emphasis on the first line company officer's role, as a Fire Captain. Transferable to CSU

FIRE 61 Rescue Practices 54 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. Transferable to CSU

FIRE 623.0 unitsFire Apparatus and Equipment54 hours lectureGrading: letter grade

This course focuses on a study of mobile and fixed fire apparatus and equipment, with a review of their perspective construction specifications and performance capabilities. The course outlines the effective deployment, utilization and performance of Fire apparatus and equipment under emergency conditions, when used for firefighting purposes. Transferable to CSU

FIRE 643.0 unitsHazardous Materials 254 hours lectureGrading: 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.

Transferable to CSU

FIRE 65 Fundamentals of Fire Safety 54 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. Transferable to CSU

FIRE 240Firefighter I Physical Agility4 hours lecture, 16 hours laboratoryGrading: letter grade or pass/no pass

This course is designed to assess physical agility requirements for the fire service. The course will cover the review of all physical requirements to successfully pass the Biddle test, including time requirements, successive actions that will result in a failure and activities that will result in an automatic failure of the physical agility test. It includes a review of nutritional facts and physical training principles. The course meets the statewide standards of the CalChiefs organization.

FLORAL DESIGN (FLO)

FLO286A2.0 unitsIntroduction to Floral Design: Fall Flowers27 hours lecture, 27 hours laboratoryGrading: 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.

FLO286B2.0 unitsIntroduction to Floral Design: Spring Flowers27 hours lecture, 27 hours laboratoryGrading: 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.

3.0 units

0.5 unit

COURSES

2.0 units

Intermediate Floral Design-Wedding 27 hours lecture, 27 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 handson, 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

FLO 287A

2.0 units

Intermediate Floral Design-Sympathy 27 hours lecture, 27 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 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 27 hours lecture, 27 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

27 hours lecture, 27 hours laboratory

Advanced Floral Design

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 art 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 **Applied Floral Shop Operation** 54 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 **Floral Creativity and Competition** 9 hours lecture, 18 hours laboratory

0.5 unit

3.0 units

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, expand and develop beyond the student's present personal creativity potential. The course will enhance the student skills required for competitive floral design, including emphasis in design speed. A field trip to the California State Floral Association Top Ten Competition is offered for competing or observing.

FOREIGN LANGUAGE, FRENCH (FREN)

FREN 1 **Elementary French** 90 hours lecture, 18 hours 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. 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.

3.0 units

NOTE: This course is comparable to two years of high school French.

Transferable to UC or CSU; see counselor for limitations

FREN 1C5.0 unitsFrench 1 for Spanish Speakers

90 hours lecture, 18 hours 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 and underlying structural similarities between French and Spanish. 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. Transferable to UC or CSU; see counselor for limitations

FREN 2 5.0 units

Elementary French 90 hours lecture, 18 hours laboratory Prerequisite: FREN 1 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.

Transferable to UC or CSU; see counselor for limitations

FREN 2C5.0 unitsFrench 2 for Spanish Speakers90 hours lecture, 18 hours laboratoryPrerequisite: FREN 1CGrading: 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 and underscoring structural similarities between French and Spanish that facilitate French language-acquisition, based on modern topical material.

Transferable to UC or CSU; see counselor for limitations

FREN 35.0 unitsIntermediate French90 hours lecturePrerequisite: FREN 2Grading: 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. Transferable to UC or CSU; see counselor for limitations

FREN 45.0 unitsIntermediate French90 hours lecturePrerequisite:FREN 3 or recent completion of three yearshigh school FrenchGrading: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.

Transferable to UC or CSU; see counselor for limitations

FREN 25A Advanced French: Culture in Literature 54 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 topicrelated vocabulary, to improve fluency in the target language. Outside reading and reporting in the field of study are required.

Transferable to UC or CSU; see counselor for limitations

FOUNDATION SKILLS DEVELOPMENT

 FS
 600
 0.0 unit

 Foundational Skills Language Arts
 18
 18

 18 hours lecture
 Recommended Preparation: Intermediate Reading Level in English
 Grading: LBCC non-graded course

This course is part of a non-credit program designed to improve the foundational skills required for college and career readiness. Students will participate in a self-paced, flexible, open-entry/exit course that provides structured and supportive modularized instruction based off the student's academic and career goals. This course emphasizes the development of reading, writing, and college and career preparation skills for students who: (1) are enrolled, or plan to enroll, in credit courses and need to improve their foundational skills, (2) are returning and/or adult students wishing to prepare for academic success, (3) are preparing to take exams or certifications for academic, employment, or special vocational programs, 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 Competency in Foundational Skills.

FS 605 **Foundational Skills Math** 18 hours lecture

Recommended Preparation: Intermediate Reading Level in English

0.0 unit

Grading: LBCC non-graded course

This course is part of a non-credit program designed to improve the foundational skills required for college and career readiness. Students will participate in a self-paced, flexible, open-entry/exit course that provides structured and supportive modularized instruction based off the student's academic and career goals. This course emphasizes the development of math and college and career preparation skills for students who: (1) are enrolled, or plan to enroll, in credit courses and need to improve their foundational skills, (2) are returning and/or adult students wishing to prepare for academic success, or (3) are preparing to take exams or certifications for academic, employment, or special vocational programs. This course is part of a sequence of courses leading to a Certificate of Competency in Foundational Skills.

FOOD TECHNOLOGY (FT)

0.0 unit

0.0 unit

FT 651 **Cake Decorating Techniques** 18 hours lecture, 36 hours laboratory Grading: LBCC non-graded course

This course covers cake decorating techniques, recipes, tools and skill development. A variety of icings, designs, and shaping techniques will be covered.

FT 652 **Cake Decorating for Special Occasions** 18 hours lecture, 36 hours laboratory Grading: LBCC non-graded course

This course covers cake decorating techniques for special occasions. Included will be creating cakes with special

effects, candy molds, novelties, international styles, delivery, set up techniques and business practices.

BUSINESS, GENERAL (GBUS)

GBUS 5 (C-ID BUS 110) **Introduction to Business** 54 hours lecture Grading: letter grade

3.0 units

This course is designed to provide a basic understanding of the business environment, with a special emphasis on globalization and ethics/social responsibility, as well as 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. Transferable to UC or CSU; see counselor for limitations

GBUS 10 **Personal Finance** 54 hours lecture

3.0 units

Prerequisite: MATH 110 or MATH 110A and MATH 110B or appropriate math placement Grading: letter grade

Fundamentals of personal finance including financial planning, money management, income and asset protection, and investments. Course material covered includes calculations and problem solving related to budgeting, managing income taxes, building and maintaining good credit, large personal assets purchases, managing property and liability risk, investment fundamentals, and retirement and estate planning. Transferable to CSU

GBUS 25 **Digital and Social Media** 54 hours lecture Grading: letter grade or pass/no pass

3.0 units

In this course, students will explore the design and impact of digital and social media technologies for both personal and professional application in a wide variety of organizational situations. Additionally, students will learn to understand digital and social media etiquette and ethics. Both the potential and the limitations of this technology will be explored and students will have access to hands-on experience with several forms of social media technology. Those who complete this course will be prepared to use digital and social media productively and will have a framework for understanding and

0.0 unit

evaluating new technology tools and platforms as they are developed. This course is not open for credit to students who have completed BCOM 25. Transferable to CSU

GBUS 215 3.0 units **Introduction to Business Ethics** 54 hours lecture Grading: letter grade or pass/no pass

This course will examine ethical issues in business using interdisciplinary approach or team teaching drawn from Management and Philosophy. 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. This course is not open for credit to students who have completed Philosophy 16.

GED PREPARATION

GED 600 **GED Preparation: Language Arts** 18 hours lecture Grading: LBCC non-graded course

This course prepares students to take the GED language arts tests. Reading for meaning, identifying and creating arguments and grammar and language to pass the GED language arts tests are covered via group and individualized instruction.

0.0 unit GED 605 **GED Preparation: Social Studies** 18 hours lecture Grading: LBCC non-graded course

This course prepares students to take the GED social studies test. Reading for meaning in social studies, analyzing historical events and arguments in social studies, and using numbers and graphs in social studies to pass the GED social studies test are covered via group and individualized instruction.

GED 610 **GED Preparation: Mathematics**

0.0 unit

0.0 unit

18 hours lecture Grading: LBCC non-graded course

This course prepares students to take the GED mathematics test. Math, geometry, basic algebra and graphs and functions to pass the GED mathematics test are covered via individualized instruction.

GED 615 **GED Preparation: Science** 18 hours lecture Grading: LBCC non-graded course

This course prepares students to take the GED science test. Designing and interpreting science experiments, using numbers and graphics in science and reading for meaning in science to pass the GED science test are covered via individualized instruction.

GED 620 0.0 unit **GED Preparation - Spanish: Language Arts 18 hours lecture** Grading: LBCC non-graded course

This course prepares students to take the Spanish GED language arts tests. Reading for meaning, identifying and creating arguments and grammar and language to pass the Spanish GED language arts tests are covered via group and individualized instruction in a low-stress environment.

Prepara al estudiante para tomar los exámenes de artes del lenguaje español para GED. La lectura de significado, la identificación y la creación de argumentos y gramática y lenguaje para aprobar los exámenes de artes del lenguaje español se cubren mediante instrucción grupal e individualizada en un ambiente de menos estrés.

0.0 unit GED 625 **GED Preparation -Spanish: Social Studies** 18 hours lecture Grading: LBCC non-graded course

This course prepares students to take the Spanish language GED social studies test. Reading for meaning in social studies, analyzing historical events and arguments in social studies, and using numbers and graphs in social studies to pass the GED social studies test are covered via group and individualized instruction in a low-stress environment.

Prepara al estudiante para tomar el examen de estudios sociales GED en español. Leer en busca del significado de en Estudios Sociales, analizar eventos y argumentos históricos en Estudios Sociales, y usar números y gráficas en Estudios Sociales para aprobar el examen de estudios sociales de GED se cubren a través de instrucción grupal e individualizada en un ambiente de menos estrés.

3.0 units

GED 630	0.0 unit
GED Preparation -Spanish: Mathematics	
18 hours lecture	

Grading: LBCC non-graded course

This course prepares students to take the Spanish GED mathematics test. Math, geometry, basic algebra and graphs and functions to pass the Spanish GED mathematics test are covered via individualized instruction in a low-stress environment. Prepara al estudiante para tomar el examen de matemáticas GED en español. Matemáticas, geometría, álgebra básica y gráficas y funciones para aprobar el examen de matemáticas GED se cubren a través de instrucción individualizada en un ambiente de menos estrés.

GED 6350.0 unitGED Preparation-Spanish: Science18 hours lectureGrading: LBCC non-graded course

This course prepares students to take the GED science test. Designing and interpreting science experiments, using numbers and graphics in science and reading for meaning in science to pass the GED science test are covered via individualized instruction in a low-stress environment.

Prepara al estudiante para tomar el examen de ciencias GED. El diseño e interpretación de experimentos científicos, el uso de números y gráficos en ciencias y la lectura del significado en ciencias para aprobar el examen de ciencias GED están cubiertos a través de la instrucción individualizada en un ambiente de menos estrés.

GEOGRAPHY (GEOG)

GEOG 2 (C-ID GEOG 120) Elements of Cultural Geography 54 hours lecture Grading: letter grade or pass/no pass

This course introduces students to the patterns and processes that shape the spatial distribution of human activity on the surface of earth. Topics covered include population change, migration patterns, the distribution of religion and language, political boundaries, cities and urban growth, economic development, and environmental impacts of human activity. Transferable to UC or CSU; see counselor for limitations

3.0 units

GEOG 5 The Global Economy 54 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. Transferable to UC or CSU; see counselor for limitations

GEOG 10 (C-ID GEOG 155)3.0 unitsIntro to Geographic Information Systems54 hours lectureRecommended 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. Transferable to UC or CSU; see counselor for limitations

GEOG 40 (C-ID GEOG 125)	3.0 units
World Regional Geography	
54 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 regions of the Americas, Africa, Europe, Asia, the Middle East and the Pacific area. Transferable to UC or CSU; see counselor for limitations

GEOG 48 (C-ID GEOG 140)	3.0 units
Geography of California	
54 hours lecture	
Grading: letter grade or pass/no pass	

This course provides a thematic approach to issues, processes and topics relevant to a study of California geography, including climate, landforms, natural vegetation, water resources, cultural landscapes, ethnic diversity, urban and agricultural regions, and the economy. Students will explore the physical, and human landscapes that have evolved as a result of the humanenvironment interface.

Transferable to UC or CSU; see counselor for limitations

GEOLOGY (GEOL)

GEOL 1 (C-ID GEOL 101)4.5 unitsGeneral Physical Geology63 hours lecture, 54 hours laboratoryGrading: 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.

Transferable to UC or CSU; see counselor for limitations

GEOL 1H (C-ID GEOL 101)4.5 unitsHonors General Physical Geology63 hours lecture, 54 hours laboratoryPrerequisite: Qualification for the Honors ProgramGrading: 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.

Transferable to UC or CSU; see counselor for limitations

GEOL 2 (C-ID GEOL 100)3.0 unitsGeneral Geology, Physical54 hours lectureGrading: 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 combined with GEOL 2L and a beginning course for geology majors. Transferable to UC or CSU; see counselor for limitations

LONG BEACH CITY COLLEGE

1.0 unit

GEOL 2F Geology Field Trips 23 hours lecture Corequisite: GEOL 1 or GEOL 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, support student study of GEOL 1 or 2, and associated environmental problems. This class does not fulfill the requirement for a laboratory science. Transferable to UC or CSU; see counselor for limitations

GEOL 2L(C-ID GEOL 100L)1.5 unitsGeneral Geology, Physical Geology Lab18 hours lecture, 36 hours laboratoryCorequisite: GEOL 2Grading: 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. Transferable to UC or CSU; see counselor for limitations

GEOL 3 (C-ID GEOL 111)4.5 unitsHistorical Geology72 hours lecture, 45 hours laboratoryGrading: letter grade or pass/no pass

This course is a study of earth history through an analysis of the fossil and rock record. Subjects include geologic dating, global tectonics, stratigraphy, fossils, biological evolution, and the planet's origin. Particular emphasis is placed on the paleogeographic reconstruction of Earth beginning in the Precambrian and ending with current conditions. This is a general course for liberal arts students and a beginning course for geology majors. One single-day weekend field trip is required. Transferable to UC or CSU; see counselor for limitations

GEOL 3H (C-ID GEOL 111)4.5 unitsHonors Historical Geology72 hours lecture, 45 hours laboratoryPrerequisite: Qualification for the Honors ProgramGrading: letter grade or pass/no pass

This course is a study of earth history through an analysis of the fossil and rock record. Subjects include geologic dating, global tectonics, stratigraphy, fossils, biological

evolution, and the planet's origin. Particular emphasis is placed on the paleogeographic reconstruction of Earth beginning in the Precambrian and ending with current conditions. This is a general course for liberal arts students and a beginning course for geology majors. One single-day weekend field trip is required.

Transferable to UC or CSU; see counselor for limitations

GEOL 4 **Field Geology** 27 hours lecture, 27 hours laboratory Corequisite: GEOL 1, 2, 2L, 3, 3H or 5 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. Transferable to UC or CSU; see counselor for limitations

GEOL 5 3.0 units **Environmental Geology** 54 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 they 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.

Transferable to UC or CSU; see counselor for limitations

GEOL 7 **Field Studies: Western Environments** 27 hours lecture, 27 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 and geologic conditions in the Western United States. Transferable to CSU

GEOL 10 (C-ID GEOL 121) **Earth Science for Educators** 54 hours lecture, 54 hours laboratory Grading: letter grade

This is an inquiry-based Earth Science course that fulfills general education requirements for students aspiring to become elementary school teachers. Students will develop a meaningful understanding of geology, oceanography, meteorology and solar system astronomy through lecture and laboratory activities. An earthsystems approach will be emphasized to explain natural phenomena that impact human societies. The course will cover the breadth and depth of Earth Science topics covered in the Next Generation Science Standards (NGSS). Included with the class is a required field trip to acquaint the student with field examples of topics covered in the class. Note: Geology 10 is not designed to meet the requirements for Geology or Earth Science majors.

Transferable to UC or CSU; see counselor for limitations

GEOL 16 Field Techniques/Geol: So Calif Deserts 36 hours lecture, 54 hours laboratory Corequisite: GEOL 1, 2 or 5 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.

Transferable to CSU

GEOL 17	2.0 units
Geology of Southern California Deserts	
27 hours lecture, 27 hours laboratory	
Corequisite: GEOL 1, 2, or 5	
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**.

Transferable to UC or CSU; see counselor for limitations

GEOL 18 **Geology of California** 54 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,

3.0 units

3.0 units

2.0 units

4.0 units

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. Transferable to UC or CSU; see counselor for limitations

GEOL 20 3.0 units Physical Oceanography 54 hours lecture Grading: letter grade

This introductory course explores the major physical features of the world's oceans. Course topics include the formation and history of the ocean basins, oceanatmosphere interactions, ocean circulation, and the dynamics of waves, tides, and coastlines. This course also reviews ocean chemical and sedimentation cycles as well as the general distribution of marine life. The ocean as a resource for people and human impact on the marine environment will also be considered. Class will include an instructional field trip.

Transferable to CSU

FOREIGN LANGUAGE, GERMAN (GER)

5.0 units

GER 1Elementary German90 hours lecture, 18 hours laboratoryGrading: 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 speakers. Transferable to UC or CSU; see counselor for limitations

GER 25.0 unitsElementary German90 hours lecture, 18 hours laboratoryPrerequisite: GER 1Grading: 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 and evaluated on a regular basis. Transferable to UC or CSU; see counselor for limitations

GLOBAL STUDIES (GLST)

GLST 1 Introduction to Global Studies 54 hours lecture Grading: letter grade

This course is an introduction to the interdisciplinary field of Global Studies, including the history of globalization, and economic, political, social, cultural and ecological developments related to the process of globalization. Transferable to UC or CSU; see counselor for limitations

GLST 2 Global Issues 54 hours lecture Grading: letter grade 3.0 units

3.0 units

This course introduces students to the origins, current status, and future trends of major transnational issues confronting the global community. Topics can include population trends, economic development and inequality, basic human needs (for food, water health care), human rights, international conflict and security concerns, and environmental problems. The course also focuses on global governance, including the study of collective global responsibilities.

Transferable to UC or CSU; see counselor for limitations

HISTORY (HIST)

HIST 1A (C-ID HIST 170)3.0 unitsHistory of Western (European) Civilization54 hours lectureGrading: letter grade

This course is a broad survey of the history of European civilization and its world significance from pre-history to the end of the Thirty Years War, including Greece, Rome, the Middle Ages, the Renaissance, and the Reformation through the Age of Discovery.

Transferable to UC or CSU; see counselor for limitations

HIST 1AH (C-ID HIST 170)3.0 unitsHonors History of Western (European) Civilization54 hours lecture

Prerequisite: Qualification for the Honors Program Grading: letter grade

This course is a broad survey of the history of European civilization and its world significance from pre-history to the end of the Thirty Years War, including Greece, Rome, the Middle Ages, the Renaissance, and the Reformation through the Age of Discovery.

Transferable to UC or CSU; see counselor for limitations

HIST 1B (C-ID HIST 180) 3.0 units History of Western (European) Civilization 54 hours lecture

Grading: letter grade

This course traces the history of 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. Transferable to UC or CSU; see counselor for limitations

HIST 1BH (C-ID HIST 180) 3.0 units Honors History of Western (European) Civilization 54 hours lecture

Prerequisite: Qualification for the Honors Program Grading: letter grade

This course traces the history of 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. Transferable to UC or CSU; see counselor for limitations

HIST 2B (C-ID HIST 150)	3.0 units
World History to 1500	
54 hours lecture	
Grading: letter grade	

This course is an introduction to world history from the origins of civilization to 1500 with an emphasis on interactions between civilizations. Topics include the role of universal religions; political, social, and gender structures; economic and demographic development; diffusion of culture and technology via migration, commerce, and imperial expansion. Transferable to UC or CSU; see counselor for limitations

HIST 2C (C-ID HIST 160) 3.0 units World History Since 1500 54 hours lecture Grading: letter grade

This course is a survey of the major world civilizations since 1500 with an emphasis on global interactions. Topics include economic globalization; demographic,

environmental and gender transitions; intellectual, religious and cultural transformations; imperialism and resistance to empire, birth of nations; and historical origins of contemporary world.

Transferable to UC or CSU; see counselor for limitations

HIST 2CH **Honors World History Since 1500** 54 hours lecture

3.0 units

Prerequisite: Qualification for the Honors Program Grading: letter grade

This course is a survey of the major world civilizations since 1500 with an emphasis on global interactions. Topics include economic globalization; demographic, environmental and gender transitions; intellectual, religious and cultural transformations; imperialism and resistance to empire, birth of nations; and historical origins of contemporary world. Transferable to UC or CSU; see counselor for limitations

HIST 7 **Ancient Egypt History** 54 hours lecture Grading: letter grade

3.0 units

This course surveys Egyptian politics, economy, society, religion, and the arts from the Pre-dynastic period through Cleopatra. It also investigates Egypt's connections with neighboring cultures of Africa, the Mediterranean, and the Middle East. An introduction to hieroglyphs is included.

Transferable to UC or CSU; see counselor for limitations

HIST 8A **History of the Americas** 54 hours lecture Grading: letter grade

3.0 units

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.

Transferable to UC or CSU; see counselor for limitations

COURSES

3.0 units

3.0 units

Honors History of the Americas54 hours lecturePrerequisite: Qualification for the Honors Program

Grading: letter grade

HIST 8AH

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.

Transferable to UC or CSU; see counselor for limitations

HIST 8B History of the Americas (Modern Era) 54 hours lecture Grading: letter grade

The course presents a comprehensive survey of the distinct national identities of the nations of the Western Hemisphere as they developed and matured during the mid-nineteenth to the modern era. The course analyzes North and South America as the new nations developed social, economic, cultural, and political identities. HIST 8B meets the U.S. History, Constitution, and American Ideals graduation requirement. Effective Fall 2016, students may now take either 8A/8AH or 8B/8BH to meet aforementioned U.S. History, Constitutional, and American Ideals requirement.

Transferable to UC or CSU; see counselor for limitations

HIST 8BH 3.0 units Honors History of the Americas (Modern Era) 54 hours lecture

Prerequisite: Qualification for the Honors Program Grading: letter grade

The course presents a comprehensive survey of the distinct national identities of the nations of the Western Hemisphere as they developed and matured during the mid-nineteenth to the modern era. The course analyzes North and South America as the new nations developed social, economic, cultural, and political identities. HIST 8BH meets the U.S. History, Constitution, and American Ideals graduation requirement. Effective Fall 2016, students may now take either 8A/8AH or 8B/8BH to meet aforementioned U.S. History, Constitutional, and American Ideals requirement.

Transferable to UC or CSU; see counselor for limitations

HIST 9A History of China 54 hours lecture Grading: letter grade or pass/no pass

This course is a survey of major political, social, and cultural developments in Chinese history from antiquity to the present. Major themes emphasized in this course include the rise of Chinese civilization and philosophies, the rise and fall of dynasties, the emergence of religious traditions, the nature of international relations and intercultural exchanges, the impact of modernization, and China's ongoing transformation into a new political and economic power during the contemporary era of the 20th and 21st centuries.

Transferable to UC or CSU; see counselor for limitations

HIST 9B History of Japan and Korea 54 hours lecture Grading: letter grade or pass/no pass

This course is a survey of major political, social, and cultural developments Korean and Japanese history from antiquity to the present. Key themes emphasized in this course include the rise of Korean and Japanese civilization, the histories of dynasties and ruling periods, the evolution of religious traditions, the contours of international relations and intercultural exchanges, and the impact of modernization. Particular emphasis will be given to Korea's and Japan's relationship to each other as well as to Chinese civilization and history. Transferable to UC or CSU; see counselor for limitations

HIST 9C History of India and Southeast Asia 54 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. Transferable to UC or CSU; see counselor for limitations

3.0 units

3.0 units

3.0 units

HIST 10 (C-ID HIST 130)3.0 unitsHist./Early America (Colonial-Reconstr)54 hours lectureGrading: 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.

Transferable to UC or CSU; see counselor for limitations

HIST 10H (C-ID HIST 130)3.0 unitsHonors Hist/Early Am (Colonial-Reconstr)54 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.

Transferable to UC or CSU; see counselor for limitations

HIST 11 (C-ID HIST 140)3.0 unitsHist./Modern America (Reconstr-Present)54 hours lectureGrading: 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.

Transferable to UC or CSU; see counselor for limitations

HIST 11H (C-ID HIST 140) Honors History/Modern America 54 hours lecture Prerequisite: Qualification for the

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. Transferable to UC or CSU; see counselor for limitations

HIST 18 History of Mexico 54 hours lecture Grading: letter grade or pass/no pass

This course is a comprehensive survey from the pre-Columbian era to the present focusing on social, cultural, intellectual, political, and ecological Mexican institutions. This course traces flashpoints of Mexican history from pre-Columbian society, Spanish conquest, colonization, Independence, U.S.-Mexican War, Revolution, muralist and arts movement, to the contemporary period. Transferable to UC or CSU; see counselor for limitations

HIST 25 History of American Woman 54 hours lecture Grading: letter grade 3.0 units

3.0 units

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 roles filled by American women. Transferable to UC or CSU; see counselor for limitations

HIST 27A African American History to 1877 54 hours lecture Grading: letter grade 3.0 units

This course provides a comprehensive survey of the African American experience in the United States from the colonial period through Reconstruction. 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

3.0 units

attention is given to contributions of African Americans to the social, economic and political development of the United States.

Transferable to UC or CSU; see counselor for limitations

HIST 27B3.0 unitsAfrican American History 1877 to present54 hours lectureGrading: letter grade or pass/no pass

This course provides a comprehensive survey of African-American social, political and economic development in the United States from the Reconstruction period to the present. Emphasis is placed on Jim Crow and white supremacy, the modern civil rights movement and the new struggle for community economic development. Special attention is given to inequality of educational and employment opportunity in the twenty-first century. Transferable to UC or CSU; see counselor for limitations

HIST 33 3.0 units Introduction to Chicana/o History 54 hours lecture Grading: letter grade

This course is a survey of major political, economic, social, and cultural trends and events in United States history from a Chicana/o perspective. The course traces flash points of American and Chicana/o history from the pre-Columbian era, the colonial era, the U.S.-Mexican War, the Gold Rush period, Repatriation, World War II, the Civil Rights movement, and current issues impacting Chicana/os in the twenty-first century. Emphasis is placed on this group's identity formation, experiences, and contributions to the development of the United States.

Transferable to UC or CSU; see counselor for limitations

3.0 units

HIST 47 Facts, Evidence, and Explanation 54 hours lecture Prerequisite: ENGL 1 Grading: letter grade

This course presents an overview of research methods used by historians and an introduction to critical analysis and historical writing. Students will develop these skills through a variety of written assignments such as primary source response papers, review essays, and bibliographies. The research component of this course will enhance students' information competency skills by familiarizing them with the use of resources like online databases, applets, and archives. Transferable to UC or CSU; see counselor for limitations

HIST 48 3.0 units History of California 54 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. Transferable to UC or CSU; see counselor for limitations

HEALTH EDUCATION (HLED)

HLED 3 (C-ID PHS 100) Contemporary Health Problems 54 hours lecture Grading: letter grade or pass/no pass

This course is designed to explore today's major health issues and behaviors in the various dimensions of health. The importance of individual responsibility for personal health and the promotion of informed, positive health behaviors is emphasized. Topics that will be discussed include the dimensions of health, vital statistics, infectious diseases, chronic diseases, nutrition, weight management, exercise, reproductive health, aging, mental health and stress, substance use and abuse, healthcare, and environmental health. 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.

Transferable to UC or CSU; see counselor for limitations

HLED 4 Women's Health Issues 54 hours lecture Grading: letter grade or pass/no pass

This course explores women's health issues within the context of the dimensions of health. Topics include gender differences in health and mortality, reproductive health issues, sexuality, mental health, stress management, positive body image and self-esteem, nutrition, weight management, chronic and infectious diseases, and substance use and abuse. The importance

of individual responsibility for personal health and the promotion of informed, positive health behaviors will be discussed.

Transferable to UC or CSU; see counselor for limitations

HLED 53.0 unitsMen's Health Issues54 hours lectureGrading: 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 with a focus on how they influence the wellness of men.

Transferable to UC or CSU; see counselor for limitations

HLED 10 (C-ID PSY 130)3.0 unitsHuman Sexuality54 hours lectureRecommended Preparation: ENGL 105 or ESL 34X orqualification for ENGL 1 through the LBCC assessmentprocess for EnglishGrading: letter grade or pass/no pass

This course provides a comprehensive overview to human sexuality from multiple perspectives including biological, psychological, sociological, cultural and historical perspectives. Students will examine knowledge, sexual attitudes, values and behaviors within the context of society and their own personal lives. Individual value systems, sexual development and interpersonal relationships will be evaluated. Current sexual norms and various aspects of interpersonal and individual sexual adjustment will be explored. This course is not open for credit to students registered in or with credit in PSYCH 10.

Transferable to UC or CSU; see counselor for limitations

HLED 21 (C-ID PHS 101)3.0 unitsIntroduction to Public Health54 hours lecture

Recommended Preparation: ENGL 105 or ESL 34x or qualification for ENGL 1 through assessment process Grading: letter grade or pass/no pass

This course provides an introduction to the discipline of Public Health and satisfies the requirements of the Public Health Transfer Model curriculum. Students will gain an understanding of the basic concepts and terminologies of public health, and the history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions and institutions, and an in-depth examination of the field of public health will be addressed. Topics of the discipline include the epidemiology of infectious and chronic disease, prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations, community organizing and health promotion programming, environmental health and safety, global health, and healthcare policy and management.

Transferable to CSU

HLED 22 (C-ID PHS 102)3.0 unitsHealth and Social Justice54 hours lecture

Recommended Preparation: ENGL 105 or ESL 34x or qualification for ENGL 1 through assessment process Grading: letter grade or pass/no pass

This course provides an introduction to health inequities/disparities in the United States. Students will explore how education, socioeconomic status, racism and gender impact health outcomes, access to health care, and policy development. Students will analyze public health issues and the skills for advocating for health and social justice. Case studies will include prevalent health issues, such as obesity, drug addiction, chronic disease, and newly emerging infectious disease. Transferable to CSU

HLED 24 (C-ID PHS 103) Drugs, Health and Society 54 hours lecture

3.0 units

Recommended Preparation: ENGL 105 or ESL 34X or qualification for ENGL 1 through the LBCC assessment process

Grading: letter grade

This course provides an overview of substance use and abuse in the United States and the impact on personal and public health. In addition to the concept of substance abuse and dependence, the course will cover the distinction between licit and illicit drugs, risk factors, the pharmacology of various drugs, and the neurological and physiological effects on the central nervous system. An analysis of health, social, political and economic factors relative to legal and illicit drugs will also be examined. Epidemiological data on the prevalence, incidence and trends as it pertains to smoking, alcohol, prescription and other drug dependencies in the U.S. will

be considered. Prevention, treatment and rehabilitation methods will also be discussed. Transferable to CSU

HORTICULTURE (HORT)

3.0 units

HORT 11A Plant Identification: Trees 36 hours lecture, 54 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 Test Plants list. Required field trips will be part of the course requirements. Transferable to CSU

HORT 11B3.0 unitsPlant Identification: Shrubs36 hours lecture, 54 hours laboratoryGrading: 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 Test Plant lists. Transferable to CSU

HORT 11C3.0 unitsPlant Identification: Herbaceous36 hours lecture, 54 hours laboratoryGrading: 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 Test Plants lists. Transferable to CSU

3.0 units

HORT 11DPlant Identification: Tropicals36 hours lecture, 54 hours laboratoryGrading: 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 Test Plants lists. Transferable to CSU

HORT 15A2.0 unitsBasic Horticulture27 hours lecture, 27 hours laboratoryGrading: 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, propagation, plant cultivation and pest identification and control. This course also includes field trips. Transferable to CSU

HORT 15B Basic Horticulture 27 hours lecture, 27 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, plant propagation, pest identification and plant cultivation. This course also includes field trips. Transferable to CSU

HORT 19 Turf Management 36 hours lecture, 108 hours laboratory Grading: letter grade or pass/no pass

This course is an introduction to the study of the maintenance and management of turfgrasses that are used in 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 or sod.

Transferable to CSU

3.0 units

2.0 units

4.0 units

HORT 21 Principles of Landscape Design 54 hours lecture Grading: letter grade or pass/no pass

LONG BEACH CITY COLLEGE

4.0 units

4.0 units

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. Transferable to CSU

HORT 26A4.0 unitsPlant Propagation - Spring54 hours lecture, 54 hours laboratoryGrading: 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.

4.0 units

Transferable to CSU

HORT 26B Plant Propagation - Fall 54 hours lecture, 54 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.

Transferable to CSU

HORT 303.0 unitsIntegrated Pest Management54 hours lectureGrading: 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. Transferable to CSU

HORT 202 Principles of Pruning 36 hours lecture, 108 hours laboratory Grading: letter grade or pass/no pass

Formerly HORT 202AB. 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 223 Landscape Construction 36 hours lecture, 108 hours laboratory Grading: letter grade or pass/no pass

Formerly HORT 223AD. 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. Emphasize will be placed on landscape plan layout as well as bidding along with decking and masonry construction, irrigation troubleshooting, design and installation.

HORT 2272.0 unitsInterior Plant Design/Installation/Maint.27 hours lecture, 27 hours laboratoryGrading: letter grade or pass/no pass

Students in this course will learn interior landscape design, installation, and maintenance techniques, as well as cultural and climatic conditions, and pests and diseases and their prevention, control or eradication. Students will learn color and seasonal plants and how to bid and sell a design.

HORT 323 Landscape Construction 7 hours lecture, 20 hours laboratory Grading: letter grade or pass/no pass

Formerly HORT 323AD. 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.

0.5 unit

3.0 units

HORT 4304.0 unitsLandscape Maintenance54 hours lecture, 54 hours laboratoryGrading: 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)

HS13.0 unitsIntroduction to Social Work54 hours lectureGrading: letter grade or pass/no pass

This course is designed to identify and analyze the history and development of the social welfare and the societal institutions in urban and rural communities in the U.S. 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 policies and procedures are also examined. Special attention is given to the tasks of culturally responsive social workers and human services workers in current service delivery settings. Transferable to CSU

HS 7 3.0 units Introduction to Victimology 54 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.

Transferable to CSU

HS 15 Social Welfare: People with Disabilities 54 hours lecture Grading: letter grade

This course is an overview of various disabilities and their etiology. It includes the study of methods and the

3.0 units

processes involved in the adjustments of people and their families to various disabilities. It includes an indepth 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. Transferable to CSU

HS 26 Introduction to Gerontology 54 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. Students will examine several theoretical perspectives, research methods, cognitive and developmental studies and how individuals are molded under these influences that change over time. Students will develop an overall understanding of key psychological and developmental terms, concepts, theories and important influences of human behavior over a lifespan. Transferable to CSU

HS413.0 unitsIntroduction to Chemical Dependency54 hours lectureGrading: 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. Transferable to CSU

HS 43 3.0 units Case Management: Treatment & Aftercare 54 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 to address for effective termination of clients. 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. Transferable to CSU

HS 45 3.0 units Stress Management for Case Managers 54 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 individual, social & interpersonal issues. The course is strongly recommended for individuals working as case managers in the helping fields. HS 45 is required for persons seeking CAADAC certification. This course in an elective for CAADE students. It is recommended for persons wishing to work in other areas of the Human Services field.

Transferable to CSU

HS 46 Physiology & Pharmacology of Drugs 54 hours lecture Grading: letter grade

3.0 units

3.0 units

This course examines the effects that alcohol and several other psychoactive drugs have on our brain, body and everyday behavior. Issues including drug tolerance, cooccurring disorders 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. Transferable to CSU

HS 47 Intervention, Treatment & Recovery 54 hours lecture Grading: letter grade This course examines the treatment and recovery communication process from the perspective of both the client and case manager. Several therapeutic educational approaches will be presented and applied through homework skills assignments 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. Transferable to CSU

HS 48 Group & Family Process 54 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.

Transferable to CSU

HS 50 Law and Ethics 54 hours lecture Grading: letter grade

3.0 units

3.0 units

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, sharing of personal information and crisis intervention requirements will be presented. Learning how to deal with such issues as evaluating a person's potential for suicide, child & elder abuse and when individuals pose a serious potential to harm to others are also examined. This is a core course for Alcohol & Drug Studies majors who are pursuing a Career Certificate. Transferable to CSU

3.0 units

HS712.0 unitsWork Experience - Human Services18 hours lecture, 74 hours laboratoryCorequisite: Concurrent enrollment in at least oneadditional course in the disciplineGrading: letter grade or pass/no pass

Formerly HS 71AD. 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. Transferable to CSU

HS72A3.5 unitsField Instruction and Seminar I27 hours lecture, 108 hours laboratoryPrerequisite: HS 41 and 43 and 50 and 252Grading: letter grade

This course provides supervised field-instruction experience in approved community agencies serving clients in the field of addiction treatment. The focus of the course is allowing the student to apply knowledge and learn new skills outside of the classroom environment. This course is designed to provide the student with an opportunity to develop skills that would facilitate gaining employment in the addiction services field. Development and use of helping skills, client record documentation, service coordination, self-awareness, and beginning professional growth are also emphasized. Transferable to CSU

HS72B3.5 unitsField Instruction and Seminar II27 hours lecture, 108 hours laboratoryPrerequisite: HS 72AGrading: letter grade

This course provides continued supervised fieldinstruction experience in an approved agency focused on the addiction treatment. Students increase development of helping skills, client record documentation and service coordination. The course emphasizes the increased integration of theoretical human services concepts, industry-related and evidence-based competencies and practices in the field of addiction studies and treatments. This course is intended only for students in their final semester of an Addiction Studies Program. Transferable to CSU

HS 153Multicultural and Diverse Populations54 hours lectureGrading: letter grade

This course focuses on the major cultural, historical and societal themes in the United States and highlights the competencies needed to address and work effectively with people from various ethnic, racial, and religious groups. The course examines the knowledge, skills, and attitudes needed for the treatment providers to understand the full context of the clients' sociocultural environment and examines those that have been disadvantaged or excluded from the mainstream of US society. Includes those with co-occurring disorders. Students seek understanding across differences and focus on psychoeducation in subject areas that serve the goals of treatment and rehabilitation.

HS 162 Addiction Counseling Skills 54 hours lecture Grading: letter grade 3.0 units

This course is an introduction to the basic skills and techniques of counseling for addiction counselors. This course describes characteristics of an effective counselor, explores several theoretical models of counseling, and assists the individual to develop skills in active listening, building rapport and trust, reflecting feelings and content, and using evidenced-based applications of counseling practices.

HS2073.0 unitsDevelopment of Helping/Listening Skills54 hours lectureGrading: 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 paraprofessionals 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 Conflict Resolution/Mediation 54 hours lecture Grading: letter grade

3.0 units

3.0 units

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, groups or staff who deal with interpersonal conflicts in the alcohol & drug treatment community.

HS 252 Co-Occurring Disorders 54 hours lecture Grading: letter grade 3.0 units

3.0 units

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 260 3.0 units Domestic Violence Intervention Strategies 54 hours lecture Grading: letter grade

This course is designed to provide a portion of 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.

HOMELAND SECURITY ADMIN (HSA)

HSA 401 Introduction to Homeland Security 54 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	
54 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 Transportation and Border Security 54 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.

HUMANITIES (HUMAN)

HUMAN 1 Comparative World Cultures 54 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.

Transferable to UC or CSU; see counselor for limitations

HUMAN 1H

3.0 units

Honors Comparative World Cultures

3.0 units

54 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. 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 1, Social Science 1, or Social Science 1H.

Transferable to UC or CSU; see counselor for limitations

3.0 units HUMAN 7 Intro to Ethnic Histories and Identity 54 hours lecture Grading: letter grade or pass/no pass

This course explores the intersection of ethnicity, race and identities in American society from the humanities and social science perspectives. The course examines social justice movements in relation to ethnic and racial groups in the United States to provide a basis for a better understanding of the socioeconomic, cultural and political conditions among key social groups and an enhanced appreciation of the complexity of the processes effecting the interaction of the American people. Not open to students registered in or with credit in SOCSC 7.

Transferable to UC or CSU; see counselor for limitations

BUSINESS, INTERNATIONAL (IBUS)

IBUS 1

3.0 units

Introduction to International Business 54 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. Transferable to CSU

IBUS 20 **Export-Import Business Practices** 54 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 exportimport business or the manager who wishes to expand a company's marketing opportunities. Transferable to CSU

IBUS 52 3.0 units Introduction to Supply Chain Management 54 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. Transferable to CSU

IBUS 60 3.0 units **International Business Law** 54 hours lecture **Recommended Preparation: LAW 18** 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. Transferable to CSU

IBUS 75 Introduction to Logistics 54 hours lecture Grading: letter grade

3.0 units

This course will explore logistics systems and concepts, including inventory and warehouse management, logistics information systems, facility location, and global logistics. It is designed for those who are interested in becoming logistics professionals as well as those who wish to update their knowledge in the field. Transferable to CSU

5.0 units

5.0 units

5.0 units

FOREIGN LANGUAGE, ITALIAN (ITAL)

5.0 units

ITAL 1 Elementary Italian 90 hours lecture, 18 hours laboratory Grading: letter grade or pass/no pass

ITAL 1 is the first course in the study of the Italian language. This course introduces 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 language, culture, and civilization. This course is not recommended for native speakers of Italian or for students who have completed one year of high school Italian with a grade of B or better.

Transferable to UC or CSU; see counselor for limitations

ITAL 1C	5.0 units
Elementary Italian for Spanish Speakers	
90 hours lecture, 18 hours laboratory	
Grading: letter grade or pass/no pass	

This course provides an introduction to Italian vocabulary and grammar structures, emphasizing listening, speaking, reading, and writing and underlying structural similarities between Italian and Spanish. This course is not recommended for native speakers of Italian or for students who have recently completed one year of high school Italian with a grade of B or better. Transferable to UC or CSU; see counselor for limitations

ITAL 25.0 unitsElementary Italian90 hours lecture, 18 hours laboratoryPrerequisite: ITAL 1

Grading: letter grade or pass/no pass

This course is the continuation of the study of the Italian language. This course further emphasizes the four skills necessary for language acquisition: listening, speaking, reading and writing. Students will continue studying basic vocabulary and grammar forms, emphasizing listening, reading and writing based on modern topical material. This course is not recommended for native speakers of Italian or for students who have completed two years of high school Italian with a grade of B or better. Transferable to UC or CSU; see counselor for limitations ITAL 2C

Elementary Italian for Spanish Speakers 90 hours lecture, 18 hours laboratory Prerequisite: ITAL 1C 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, and underscoring structural similarities between Italian and Spanish that facilitate Italian-language acquisition, based on modern topical material.

Transferable to UC or CSU; see counselor for limitations

ITAL 4 Intermediate Italian 90 hours lecture Prerequisite: ITAL 3 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.

Transferable to CSU

FOREIGN LANGUAGE, JAPANESE (JAPAN)

JAPAN 1 Elementary Japanese 90 hours lecture, 18 hours 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. Transferable to UC or CSU; see counselor for limitations

JAPAN 2 Elementary Japanese 90 hours lecture, 18 hours laboratory Prerequisite: JAPAN 1 Grading: letter grade or pass/no pass

LONG BEACH CITY COLLEGE

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 continues to teach the kanji writing system. It is not recommended for native speakers of Japanese.

Transferable to UC or CSU; see counselor for limitations

JAPAN 3 5.0 units Intermediate Japanese 90 hours lecture Prerequisite: JAPAN 2 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. This course is not recommended for native speakers of Japanese.

Transferable to UC or CSU; see counselor for limitations

JAPAN 4 5.0 units Intermediate Japanese 90 hours lecture Prerequisite: JAPAN 3 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 additional kanji characters. Topics include expansion of vocabulary, development of reading and speaking ability and improvement of writing skills through the writing process.

Transferable to UC or CSU; see counselor for limitations

3.0 units

JOURNALISM (JOURN)

JOURN 1A Digital Design and Publication 54 hours lecture 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. Transferable to CSU JOURN 1B Digital Design and Publication 54 hours lecture Prerequisite: JOURN 1A 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. Transferable to CSU

JOURN 5 (C-ID JOUR 150) Introduction to Public Relations 72 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. Transferable to CSU

JOURN 6 Magazine Writing 36 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly JOURN 6AD. 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 and proofreading. Students guide photographers to complete team assignments. Transferable to CSU

JOURN 10 (C-ID JOUR 100) 3.0 units Intro to Global Media Communications 54 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.

Transferable to UC or CSU; see counselor for limitations

3.0 units

4.0 units

JOURN 20 (C-ID JOUR 110)	
Beginning Newswriting and Reporting	
72 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. Transferable to UC or CSU; see counselor for limitations

4.0 units

3.0 units

3.0 units

JOURN 253.0 unitsFree-Lance Writing54 hours lectureGrading: letter grade or pass/no pass

The course offers training in the writing and marketing of website, newspaper and magazine feature stories. Transferable to CSU

JOURN 35 (C-ID JOUR 160)
Photojournalism
54 hours lecture
Grading: letter grade

Formerly JOURN 35AD. The 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 35. Transferable to CSU

JOURN 36	3.0 units
Digital Photojournalism	
54 hours lecture	
Prerequisite: JOURN 35	
Grading: letter grade	

This course offers instruction in basic and advanced photojournalism techniques and practical experience in web, digital, social-media network, newspaper and magazine photography and audio recording. It is not open to students registered in or with credit in PHOT 35. Transferable to CSU

JOURN 40 Social Media in Journalism 54 hours lecture Grading: letter grade Students learn and understand multiple aspects and principles of beginning Social Media in Journalism through discussion, analysis, review, research and practice of accuracy, ethics, timeliness, privacy, legal issues, security, development, technology, interaction with print publications, photojournalism, subscriptions, future formats, frequency, replies, anonymity, impact, audience, citizen journalism, feedback and other areas. Designed for all majors, the course utilizes critical thinking, writing, oral communication and mathematics to educate students about this rapidly growing and innovative area of communication that is shaping the field of Journalism.

Transferable to UC or CSU; see counselor for limitations

JOURN 80 (C-ID JOUR 130)4.0 unitsMultimedia Newsroom: News54 hours lecture, 54 hours laboratoryGrading: letter grade or pass/no pass

Formerly JOURN 80AD. 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.

Transferable to CSU

JOURN 81 Multimedia Newsroom: Features 54 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

This course focuses on the production of multimedia news as it relates to feature stories. Students will research, write and produce feature and sports stories about Long Beach City College utilizing photos, videos, blogs, artwork, tweets, postings, informational graphics and other products under deadline pressures. Students will produce material for a variety of electronic media outlets and the printed Viking newspaper. The course will involve field work on campus to cover news about Long Beach City College. Transferable to CSU

JOURN 82

4.0 units

4.0 units

Multimedia Newsroom: Profiles 54 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

LONG BEACH CITY COLLEGE

This course concentrates on the production of news profiles and obituaries. Students will learn how to research and interview human subjects by combining observations, facts, responses from a variety of sources. Students will produce special interest profiles and obituaries utilizing a variety of multimedia formats. The course will involve field work on campus to cover profiles and obituaries about Long Beach City College. Transferable to CSU

JOURN 834.0 unitsMultimedia Newsroom: Politics54 hours lecture, 54 hours laboratory

Grading: letter grade or pass/no pass

This course concentrates on the reporting of politics and government. Students will gather information by attending political speeches, government meetings, rallies, protests and other related events. Students will then compile research data and materials to produce a news story utilizing a variety of multimedia and print formats. The course will involve field work on and off campus to cover politics and government. Transferable to CSU

JOURN 86 (C-ID JOUR 131*)4.0 unitsMultimedia Editors: Design54 hours lecture, 54 hours laboratoryGrading: letter grade or pass/no pass

Students will gain skills in designing a layout for news or magazine websites, other electronic products or printed materials. Topics will include news copy editing, news judgment, ethics and responsibility, headline writing, page design and selection and placement of photos and art for on-line formats and the printed newspaper or magazine. The class is designed for Viking news or City magazine website and newspaper or City magazine student editors and will require visits to campus settings outside of the classroom. Transferable to CSU

JOURN 87 (C-ID JOUR 131*) Multimedia Editors: Visuals 54 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

This course concentrates on the visual aspects of electronic products and printed materials. Topics will include editing photos, artwork, infographics, videos, ethics and responsibility. Students will focus on the visual

4.0 units

aspects of the Viking news website, newspaper and/or City magazine. Transferable to CSU

JOURN 88 (C-ID JOUR 131*)4.0 unitsMultimedia Editor Training: Management54 hours lecture, 54 hours laboratoryGrading: letter grade or pass/no pass

This course focuses on executive editing skills. Topics will include responsibility for overall content of the products, formulating a news or magazine content budget and leading a group of fellow students in news judgment, directing reporters, photographers, bloggers and artists and selection and placement of stories and visuals for online formats and the printed newspaper or magazine. The class is designed for experienced Viking news website, newspaper and City magazine student editors and will require visits to campus settings outside of the classroom.

Transferable to CSU

FOREIGN LANGUAGE, KHMER (KHMER)

KHMER 9 Khmer for Heritage Speakers 90 hours lecture

Recommended Preparation: Heritage Learner with at least low-intermediate speaking/listening ability determined through oral interview with instructor. Grading: letter grade or pass/no pass

This course is the first semester of intermediate Khmer. It develops reading and writing skills of Heritage Khmer speakers. The KHMER 9 course also increases student's oral proficiency and understanding of Khmer cultural practices. Students explore Khmer colloquial usage and common spellings to gain an understanding of how to use Khmer characters in word formation. This course includes extensive analysis of the Khmer writing system, conventions in spelling, and key vocabulary delivered through a culturally rich content and community-based learning.

Transferable to UC or CSU; see counselor for limitations

KHMER 10 Khmer for Heritage Speakers 90 hours lecture Grading: letter grade or pass/no pass

This course is the second semester of intermediate Khmer for native speakers of the language. It continues

5.0 units

to develop reading and writing skills of native Khmer speakers and increases oral proficiency. Students explore Khmer history and culture in Pre-Angkorian, Angkorian, and Post-Angkorian periods. This course also includes extensive analysis of the Khmer writing system, conventions in spelling, and key vocabulary. Transferable to UC or CSU; see counselor for limitations

KINESIOLOGY, ADAPTED (KINA)

KINA 1 PE for the Physically Limited 54 hours laboratory Grading: letter grade

Formerly KINA 1AD. 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.

1.0 unit

1.0 unit

1.0 unit

Transferable to UC or CSU; see counselor for limitations

KINESIOLOGY, GENERAL (KING)

KING 2 Ultimate Frisbee 54 hours laboratory Grading: letter grade or pass/no pass

This course is designed to provide an overview of the sport of Ultimate Frisbee with focus on instruction in the rules, techniques and strategies.

Transferable to UC or CSU; see counselor for limitations

KING 2B Ultimate Frisbee 54 hours laboratory Recommended Preparation: KING 2 Grading: letter grade or pass/no pass

This course provides the continued study of and practice in ultimate frisbee. Topics that will be examined are performance skill techniques, fitness, offensive strategies and defensive strategies. Emphasis will be placed on game and tournament play. Transferable to CSU KING 10 Badminton 54 hours laboratory Grading: letter grade

Formerly KING 10AD. This course is designed to provide instruction in the fundamentals of badminton and involves targeted skill practice and tournament play. The course includes a brief history of badminton, terminology, rules, conditioning, strokes, footwork, tactics, and strategies utilized in single and doubles play. Transferable to UC or CSU; see counselor for limitations

KING 10B Badminton 54 hours laboratory Recommended Preparation: KING 10 Grading: letter grade or pass/no pass

This course provides continued instruction in the sport of badminton. The course involves the rules, conditioning, strokes, footwork, tactics, singles and doubles skill practice and tournament play. Transferable to UC or CSU; see counselor for limitations

KING 14 Basketball 54 hours laboratory Grading: letter grade 1.0 unit

1.0 unit

1.0 unit

Formerly KING 14AD. This course will provide an overview of the sport of basketball with focus on instruction in rules, techniques and strategies. Course goals will be achieved through guided instruction and participation in various types of basketball competition. Transferable to UC or CSU; see counselor for limitations

KING 14B1.0 unitBasketball54 hours laboratoryS4 hours laboratory7Recommended Preparation: KING 14Grading: letter grade or pass/no pass

This course provides the continued study of the sport of basketball with focus on instruction in rules, techniques and strategies. Emphasis will be placed on game and tournament play.

Transferable to UC or CSU; see counselor for limitations

COURSES

KING 55	4.0 units
Lifeguard/Water Safety Training	
54 hours lecture, 54 hours laboratory	
Recommended Preparation: Advanced swimming ability	
Grading: letter grade	

Formerly KING 55AD. 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.

Transferable to UC or CSU; see counselor for limitations

1.0 unit

KING 65 Martial Arts 54 hours laboratory Grading: letter grade

Formerly KING 65AD. This course is an introduction to the basic techniques of martial arts systems. Discussion of each style, as well as physical and mental attributes of those likely to excel within each system is included. This non-sparring exercise program improves reflexes, coordination, strength, flexibility, balance, conditioning, endurance and muscle tone. Emphasis is placed on the fundamentals of martial arts, including martial arts safety skills and etiquette, punches, blocks, strikes, kicks, stances, vital points, kata and forms, and kick/strike analysis.

Transferable to UC or CSU; see counselor for limitations

KING 65B	1.0 unit
Martial Arts	
54 hours laboratory	
Recommended Preparation: KING 65	
Grading: letter grade or pass/no pass	

This course provides the continued study of and practice in techniques of martial arts systems. Discussion of each style, as well as, physical and mental attributes of those likely to excel within each system is included. This nonsparring exercise program improves reflexes,

coordination, strength, flexibility, balance, conditioning, endurance, and muscle tone. Emphasis is placed on the continued development of the fundamentals of martial arts safety skills and etiquette, punches, blocks, strikes, kicks, stances, vital points, kata and forms, and kick/strike analysis.

Transferable to UC or CSU; see counselor for limitations

KING 66 Self-Defense 54 hours laboratory Grading: letter grade

Formerly KING 66AD. The physical activity course covers safety, defense, techniques and practical applications of skills for self-defense, psychological defenses and assertiveness training in a technical and practical framework. Strikes, kicks, blocks, take downs, take down defense, throws, sweeps, ground fighting, and core strengthening will be covered. Transferable to UC or CSU; see counselor for limitations

KING 66B1.0 unitSelf Defense54 hours laboratoryRecommended Preparation: KING 66Grading: letter grade or pass/no pass

This course provides the continued study of Self Defense. Topics will include strikes, kicks, blocks, take downs, take down defense, throws, sweeps, ground fighting, and core strengthening.

Transferable to UC or CSU; see counselor for limitations

KING 70 Soccer 54 hours laboratory Grading: letter grade

Formerly KING 70AD. This course is designed to provide an overview of the sport of soccer with focus on instruction in the rules, techniques and strategies. Transferable to UC or CSU; see counselor for limitations

KING 70B1.0 unitSoccer54 hours laboratoryRecommended Preparation: KING 70

Grading: letter grade or pass/no pass

This course provides the continued study of and practice in soccer. Topics that will be examined are performance skill techniques, fitness, offensive and defensive strategies. Emphasis will be placed on game and tournament play.

Transferable to UC or CSU; see counselor for limitations

KING 74 Softball 54 hours laboratory Grading: letter grade 1.0 unit

1.0 unit

COURSES

Formerly KING 74AD. This is a physical activity course designed to provide an overview of softball as a team sport. Instruction will focus on basic skills, rules, techniques, teamwork and strategies. Transferable to UC or CSU; see counselor for limitations

KING 76

1.0 unit

1.0 unit

1.0 unit

1.0 unit

Swimming 54 hours laboratory Grading: letter grade

Formerly KING 76AD. This course is designed to provide instruction in the fundamentals of swimming including basic skills, strategies, rules, stroke mechanics and techniques.

Transferable to UC or CSU; see counselor for limitations

KING 84 1.0 unit Tennis 54 hours laboratory Grading: letter grade

Formerly KING 84AD. This course is designed to provide instruction in the fundamentals of tennis, including strategy, rules, the forehand and backhand groundstrokes, and the serve. Transferable to UC or CSU; see counselor for limitations

KING 86 Touch Football 54 hours laboratory Grading: letter grade

Formerly KING 86AD. This course offers instruction in the rules, strategies, and proper techniques required for the game of touch football.

Transferable to UC or CSU; see counselor for limitations

KING 90 Volleyball 54 hours laboratory Grading: letter grade

Formerly KING 90AD. This course is designed to provide instruction of the basic fundamentals of volleyball including setting, passing, hitting, and team play. Transferable to UC or CSU; see counselor for limitations

KING 90B Volleyball 54 hours laboratory Recommended Preparation: KING 90 Grading: letter grade or pass/no pass This course provides the continued study of and practice in volleyball. Topics that will be examined are performance skills, fitness, and offensive and defensive strategies. Emphasis will be placed on game and tournament play.

Transferable to UC or CSU; see counselor for limitations

KING 92 Sand Volleyball 54 hours laboratory Grading: letter grade or pass/no pass 1.0 unit

This is a physical activity course designed to provide an overview of sand volleyball as a team sport. Instruction will focus on basic skills, rules, techniques, teamwork and strategies.

Transferable to UC or CSU; see counselor for limitations

KING92B1.0 unitSand Volleyball54 hours laboratoryRecommended Preparation: KING 92Grading: letter grade or pass/no pass

This course the continued study of and practice in sand volleyball. Topics included performance skill techniques, offensive strategies and defensive strategies, fitness. Emphasis will be placed on game and tournament play. Transferable to UC or CSU; see counselor for limitations

KING 94 Rugby 54 hours laboratory Grading: letter grade or pass/no pass

This course provides the study of and practice in the team sport of rugby. Topics that will be examined are fundamental skills, rules, history, scoring and etiquette. Transferable to UC or CSU; see counselor for limitations

KINESIOLOGY, INTERCOLLEGIATE ATHLETICS(KINIA)

KINIA 1AD Baseball (Men) 180 bours laboratory 3.0 units

1.0 unit

180 hours laboratory Recommended Preparation: Enroll by Instructor Consent

Grading: letter grade This course provides specific conditioning, techniques,

This course provides specific conditioning, techniques, strategies and instruction in baseball. The course is designed for men of exceptional ability who wish to

3.0 units

participate in intercollegiate baseball. The course fulfills the requirements for a physical education activity and meets the state intercollegiate requirement for conditioning in preparation for competition. Instructor Consent required.

Transferable to UC or CSU; see counselor for limitations

KINIA 2AD 0.5 - 3.0 units Off-Season Conditioning for Athletes 180 hours laboratory Grading: letter grade

This is a variable unit course that is designed for any student preparing for intercollegiate athletic competition. The specific physical fitness routines required by the intercollegiate athlete during the offseason will be addressed. The purpose of the course is to develop a level of physical fitness, strength, and conditioning that will enhance the athlete's ability to be successful in intercollegiate competition. This course unit value can range from .5 (27hours) - 3 (162 hours). Transferable to UC or CSU; see counselor for limitations

KINIA 3AD 3.0 units Basketball (Men) 180 hours laboratory

Recommended Preparation: Enroll by Instructor Consent 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, which fulfills the legal requirement for a physical education activity.

Transferable to UC or CSU; see counselor for limitations

KINIA 4AD0.5 - 3.0 unitsPre-Season Training for Athletes180 hours laboratory

Grading: letter grade or pass/no pass

This is a variable unit course in which enrollment is limited to athletic team candidates. Emphasis is placed on sport specific technique development, team strategies and competitive performance. The course is designed with the intent of peaking performance for the upcoming intercollegiate athletic season. Students who repeat this course will improve skills and fitness specific to the chosen sport. This course unit value can range from .5 to 3.

Transferable to UC or CSU; see counselor for limitations

KINIA 5AD Cross Country (Men) 180 hours laboratory

Grading: letter grade

Recommended Preparation: Enroll by Instructor Consent Grading: letter grade

This course offers instruction in the rules, techniques and strategies of Men's Cross Country. The course is designed for men of exceptional ability who wish to participate in intercollegiate athletics.

Transferable to UC or CSU; see counselor for limitations

KINIA 7AD3.0 unitsFootball (Men)180 hours laboratoryRecommended Preparation: Enroll by Instructor Consent

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. The course fulfills the requirements for Plan B and the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC. Instructor Consent required. Transferable to UC or CSU; see counselor for limitations

KINIA 13AD3.0 unitsSoccer (Men)180 hours laboratoryRecommended Preparation: Enroll by Instructor ConsentGrading: letter grade

This course provides specific conditioning, techniques, strategies, nutrition for and instruction in soccer. The course is designed for men of exceptional ability who wish to participate in intercollegiate soccer. Transferable to UC or CSU; see counselor for limitations

KINIA 15AD3.0 unitsSwimming (Men)180 hours laboratoryRecommended Preparation: Enroll by Instructor ConsentGrading: 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.

Transferable to UC or CSU; see counselor for limitations

KINIA 19AD	3.0 units
Track & Field (Men)	
180 hours laboratory	
Recommended Preparation: Enroll by Instructor Consent	
Grading: letter grade	

This course offers instruction in the rules, techniques and strategies of Men's Track & Field. The course is designed for men of exceptional ability who wish to participate in Intercollegiate Athletics.

Transferable to UC or CSU; see counselor for limitations

KINIA 21AD Volleyball (Men) 180 hours laboratory

Recommended Preparation: Enroll by Instructor Consent Grading: letter grade

This course provides specific conditioning, techniques and strategies, in the instruction of volleyball. The course is designed for men of exceptional ability who wish to participate in intercollegiate volleyball. 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. Transferable to UC or CSU; see counselor for limitations

KINIA 23AD 3.0 units Water Polo (Men) 180 hours laboratory **Recommended Preparation: Enroll by Instructor Consent** 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.

Transferable to UC or CSU; see counselor for limitations

KINIA 27AD Basketball (Women) 3.0 units

3.0 units

180 hours laboratory **Recommended Preparation: Enroll by Instructor Consent** Grading: letter grade

This course offers instruction in the rules, techniques and strategies of Women's Basketball. The course is designed for women of exceptional ability who wish to participate in intercollegiate athletics.

Transferable to UC or CSU; see counselor for limitations

KINIA 29AD Cross Country (Women)

180 hours laboratory

Recommended Preparation: Enroll by Instructor Consent 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 students in order to improve performance. Try outs, outof-season conditioning and training will be integral components of the class.

Transferable to UC or CSU; see counselor for limitations

KINIA 33AD Beach Volleyball (Women) 180 hours laboratory Grading: letter grade

3.0 units

This course is designed to develop advanced skills in sand volleyball with intended participation on the women's intercollegiate competitive team. The course includes inseason conditioning and training in preparation for competition. The course fulfills the legal requirement for a physical education activity.

Transferable to UC or CSU; see counselor for limitations

KINIA 35AD Soccer (Women) **180 hours laboratory**

3.0 units

Recommended Preparation: Enroll by Instructor Consent 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 of a physical education activity.

Transferable to UC or CSU; see counselor for limitations

KINIA 37AD Softball (Women) 180 hours laboratory 3.0 units

Recommended Preparation: Enroll by Instructor Consent Grading: letter grade

This course offers instruction in the rules, techniques and strategies of softball (fast-pitch). The course is designed for women of exceptional ability who wish to participate in intercollegiate athletics.

Transferable to UC or CSU; see counselor for limitations

KINIA 39AD Swimming (Women)	3.0 units
180 hours laboratory Recommended Preparation: En Grading: letter grade	roll by Instructor Consent
This course offers instruction in strategies of competitive swimr designed for women of exceptio participate in intercollegiate ath Transferable to UC or CSU; see	ning. The course is onal ability that wish to nletics.
KINIA 41AD	3.0 units
Tennis (Women) 180 hours laboratory Recommended Preparation: En Grading: letter grade	roll by Instructor Consent
This course offers instruction in strategies of tennis. The course exceptional ability who wish to intercollegiate athletics.	is designed for women of
Transferable to UC or CSU; see	counselor for limitations
KINIA 43AD Track & Field (Women) 180 hours laboratory Recommended Preparation: En Grading: letter grade	3.0 units roll by Instructor Consent
This course offers instruction in strategies of Women's Track & designed for women of exception participate in Intercollegiate At Transferable to UC or CSU; see	Field. The course is onal ability who wish to hletics.
KINIA 45AD Volleyball (Women)	3.0 units
180 hours laboratory Recommended Preparation: En Grading: letter grade	roll by Instructor Consent
This course is designed to provi training for intercollegiate comp volleyball for students of excep participate at this level of comp Transferable to UC or CSU; see	petition in women's tional ability who wish to etition.
KINIA 47AD	3.0 units
Water Polo (Women) 180 hours laboratory Recommended Preparation: En Grading: letter grade	roll by Instructor Consent

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.

Transferable to UC or CSU; see counselor for limitations

KINESIOLOGY, PHYSICAL FITNESS (KINPF)

KINPF 3 Aqua Calisthenics 54 hours laboratory Grading: letter grade 1.0 unit

Formerly KINPF 3AD. This course involves instruction and practice in water aerobic exercise. Emphasis will be placed on toning, trimming and firming skeletal muscles through water resistance exercises in shallow water. Increasing flexibility, strengthening the cardiovascular system, and improving the respiratory system will also be stressed. Students do not need to have swim skills for this course.

Transferable to UC or CSU; see counselor for limitations

KINPF 4 Deep Water Aerobics 54 hours laboratory Grading: letter grade 1.0 unit

Formerly KINPF 4AD. This course will provide instruction in the development of the fundamental elements of fitness through the application of deep water resistance and buoyancy. Progressive instruction includes the development of increasingly more strenuous exercises for cardiorespiratory fitness, muscular strength, endurance and flexibility.

Transferable to UC or CSU; see counselor for limitations

KINPF 6 Cardio Fitness 54 hours laboratory Grading: letter grade 1.0 unit

Formerly KINPF 6AD. This course focuses on improving cardiovascular fitness while also strengthening and

cardiovascular fitness while also strengthening and toning the entire body. High energy, easy to follow exercises and movements are incorporated. Examples of exercises that may be used are: spin, step, aerobics, core and sculpting workouts set to music.

Transferable to UC or CSU; see counselor for limitations

1.0 unit

KINPF 8	1.0 unit
Circuit Weight Training	
54 hours laboratory	
Grading: letter grade	

Formerly KINPF 8AD. This course covers cardiovascular and strength fitness training in a circuit weight training setting. Students will learn to combine the musclebuilding benefits of resistance training with a cardiovascular boost to help burn excess body fat, develop lean muscle tissue, and improve cardiovascular and muscular endurance.

Transferable to UC or CSU; see counselor for limitations

KINPF 8B1.0 unitCircuit Weight Training54 hours laboratoryRecommended Preparation: KINPF 8Grading: letter grade or pass/no pass

This course covers cardiovascular and strength fitness training in a circuit weight training setting. Students will learn to combine the muscle-building benefits of resistance training with a cardiovascular boost to help burn excess body fat, develop lean muscle tissue, and improve cardiovascular and muscular endurance. Transferable to UC or CSU; see counselor for limitations

KINPF 10 Stretch & Relaxation 54 hours laboratory	1.0 unit
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 and reduce stress.

Transferable to UC or CSU; see counselor for limitations

KINPF 10B1.0 unitStretch & Relaxation54 hours laboratoryRecommended Preparation: KINPF 10Grading: letter grade or pass/no pass

This course provides the continued study and development of flexibility in muscles and joints at an intermediate to advanced level. Relaxation and stretching techniques will be used to improve general fitness and reduce stress.

Transferable to UC or CSU; see counselor for limitations

KINPF 12 Core Conditioning 54 hours laboratory Grading: letter grade or pass/no pass

Formerly PEPF 12AD. This course is an introduction to conditioning through the understanding and practice of exercise using the anatomical core. This class promotes improved muscular strength and endurance, flexibility, cardiorespiratory conditioning, and body composition through the usage of resistance training, mat and stability ball training, HIIT and circuit training. Transferable to UC or CSU; see counselor for limitations

KINPF 12B1.0 unitCore Conditioning54 hours laboratoryRecommended Preparation: KINPF 12Grading: letter grade or pass/no pass

This course is an intermediate level of conditioning through the understanding and practice of exercise using the anatomical core. Muscular strength and endurance, flexibility, cardiorespiratory conditioning, and body composition will be improved through the usage of resistance training, mat and stability ball training, HIIT and circuit training.

Transferable to UC or CSU; see counselor for limitations

KINPF 141.0 unitYoga54 hours laboratoryGrading: letter grade or pass/no pass

This course will provide students with designed breathing, flexibility, strength, balance, and meditation exercises to enhance the relationship between the mind and body. Students will be introduced to the basic language, philosophy, history, and styles of yoga. Transferable to UC or CSU; see counselor for limitations

KINPF 171.0 unitJogging54 hours laboratoryGrading: letter grade or pass/no pass

Formerly PEPF 17AD. This course is designed to be an introduction to develop a personal jogging program that will benefit a broad spectrum of fitness levels. This course will incorporate a weekly mileage progression with an emphasis on jogging mechanics and prevention of injuries.

Transferable to UC or CSU; see counselor for limitations

KINPF 17B Jogging 54 hours laboratory Recommended Preparation: KINPF 17 Grading: letter grade or pass/no pass

This course provides the continued study and development of a personal jogging program that will benefit a broad spectrum of fitness levels. This course will continue to incorporate a weekly mileage progression with an emphasis on jogging mechanics and prevention of injuries.

1.0 unit

Transferable to UC or CSU; see counselor for limitations

KINPF 181.0 unitTriathlon Training54 hours laboratoryRecommended Preparation: KING 76Grading: letter grade or pass/no pass

Formerly PEPF 18AD. This course provides a dynamic physical fitness program that focuses on swimming, cycling (spin bike) and running. The student will gain thorough body conditioning as well as knowledge and experience in the sport of triathlon. Topics consistent with triathlon training will be covered. Students should be at an intermediate fitness level and know how to swim freestyle.

Transferable to UC or CSU; see counselor for limitations

KINPF 18B1.0 unitTriathlon Training54 hours laboratoryRecommended Preparation: KINPF 18Grading: letter grade or pass/no pass

This course provides the study of and practice in triathlon training at an intermediate level. The course continues to focus on a dynamic physical fitness program which includes swimming, cycling, and running. The process will allow the student to gain thorough body conditioning as well as knowledge and experience in the sport of triathlon. Topics will include cardio-respiratory training, strength training, and flexibility activities which are consistent to triathlon training. This course will contribute to students who are obtaining a kinesiology degree or who wish to develop more intensive physical training techniques. Participants entering this course should be at an intermediate fitness level and know how to swim freestyle. Students will need to provide their own bicycle and helmet.

Transferable to UC or CSU; see counselor for limitations

KINPF 21 Low Impact Cardio 54 hours laboratory Grading: letter grade

Formerly KINPF 21AD. This course is designed to improve aerobic capacity and strength endurance through low impact cardio exercise and will provide students with a foundation of aerobic fitness through walking and other forms of low impact cardiovascular exercise. Students will progress from shorter duration, lower intensity walks and movement exercise to higher intensity power walking and movement activity.

Transferable to UC or CSU; see counselor for limitations

KINPF 22 Physical Fitness 54 hours laboratory Grading: letter grade

Grading: letter grade Formerly KINPF 22AD. This course will include the fitness components of cardiorespiratory, strength training, and flexibility activities. This course will include both indoor and outdoor experiences in fitness training. Assessment testing will be done to determine levels of performance

fitness, flexibility, and body composition. Transferable to UC or CSU; see counselor for limitations

in the areas of muscular strength and endurance, aerobic

KINPF 22B Physical Fitness 54 hours laboratory Recommended Preparation: KINPF 22 Grading: letter grade or pass/no pass

This course provides the continued study and expansion of the 5 components of fitness: muscular strength, muscular endurance, cardiovascular endurance, flexibility and body composition. Topics focus on aerobic vs. anaerobic training, functional fitness principles, and current health risks. The course will utilize both indoor and outdoor experiences in fitness training at the intermediate level. Assessment testing will be done to determine levels of performance within each component of fitness.

Transferable to UC or CSU; see counselor for limitations

KINPF 23 Cycling Conditioning 54 hours laboratory Grading: letter grade or pass/no pass 1.0 unit

1.0 unit

1.0 unit

Formerly PEPF 23AD. This course is an introduction to physical fitness through indoor cycling. The cycling program is an individually paced, noncompetitive, group training program designed for all riders and all fitness levels. Cycling is an exercise performed on a stationary bicycle and is performed to music. The course is open to anyone who is interested in developing muscular endurance, improved cardio-respiratory endurance and body composition.

Transferable to UC or CSU; see counselor for limitations

KINPF 24 1.0 unit **Cardio Cross Fit** 54 hours laboratory Recommended Preparation: KINPF 22 Grading: letter grade or pass/no pass

Formerly PEPF 24AD. This course encompasses the development of cardiovascular capacity, core strength (muscle strength and endurance), flexibility, coordination and balance. A variety of aerobic and anaerobic training techniques as well as body weight resistance exercises will be presented in a "boot camp" format. Transferable to UC or CSU; see counselor for limitations

KINPF 42	1.0 unit
Swimming Fitness	
54 hours laboratory	
Grading: letter grade	

Formerly KINPF 42AD. Swim fitness is a pool-based physical fitness activity. The course consists of swimming and related circuit training exercises performed primarily in the water, but also on land. Topics will include cardiorespiratory training, strength training, interval training, cross training and program design all as applied to swim fitness.

Transferable to UC or CSU; see counselor for limitations

KINPF 53	1.0 unit
Resistance Training	
54 hours laboratory	
Recommended Preparation: KINPF 54	
Grading: letter grade	

Formerly KINPF 53AD. The course will provide students the opportunity to learn the techniques of functional movement exercises. Students will be instructed on a wide variety of resistance training modalities and how they are implemented in different weight lifting genres. Proper technique will be a major emphasis with a high importance placed on students lifting weights that are

within a safe capacity of their individual limits. Students will work cooperatively in small groups and be placed together according to level of expertise and strength capacity.

Transferable to UC or CSU; see counselor for limitations

KINPF 53B Resistance Training 54 hours laboratory Grading: letter grade or pass/no pass 1.0 unit

Recommended Preparation: KINPF 53

The course will provide students the opportunity to continue to learn techniques of functional movement exercises at an intermediate to advanced level. Students will be instructed on a wide variety of resistance training modalities and how they are implemented in different weight lifting genres. Proper technique will be a major emphasis with a high importance placed on students lifting weights that are within a safe capacity of their individual limits. Students will work cooperatively in small groups and be placed together according to level of expertise and strength capacity.

Transferable to UC or CSU; see counselor for limitations

KINPF 54 Weight Training 54 hours laboratory Grading: letter grade 1.0 unit

This weight training course is designed to present a variety of lifting techniques. Students will use these techniques and their understanding of basic anatomy to increase strength and flexibility to reach their weight lifting goals.

Transferable to UC or CSU; see counselor for limitations

KINPF 54B Weight Training 54 hours laboratory **Recommended Preparation: KINPF 54** Grading: letter grade or pass/no pass

1.0 unit

This course continues to provide study and practice in a variety of weight lifting techniques at an intermediate to advanced level. Students will use these techniques and their understanding of basic anatomy to continue focus on increasing strength and flexibility to reach their weight lifting goals.

Transferable to UC or CSU; see counselor for limitations

KINPF 81 1.0 unit **Fitness and Wellness Center** 9 hours lecture, 27 hours laboratory Grading: letter grade

Formerly KINPF 81AD. 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 selfevaluation, safe and sane diet and exercise, scientific information versus fallacy, and wellness lifestyles that reduce health risks.

Transferable to UC or CSU; see counselor for limitations

KINPF 84A 2.0 units **Fitness and Wellness** 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly KINPF 84AD. 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 nutrition and diet, exercise, and modifications of lifestyle to enhance the quality of life and reduce health risks.

Transferable to CSU

KINPF 84B 2.0 units **Fitness & Wellness** 18 hours lecture, 54 hours laboratory **Recommended Preparation: KINPF 84**

Grading: letter grade or pass/no pass

This course provides for the continued study of and practice in Fitness & Wellness techniques and issues. Selected physical fitness tests are administered before, during and after exercise programs to improve endurance, strength, and joint mobility. Lectures and assignments focus on exercise and modifications of lifestyle to enhance the quality of life and reduce health risks.

Transferable to UC or CSU; see counselor for limitations

KINPF 681

0.0 unit

Human Performance Laboratory 9 hours lecture, 27 hours laboratory Grading: LBCC non-graded course

Formerly PEPF 681. This course is a physical fitness course that is designed for cardiorespiratory, strength and flexibility exercises within a prescribed fitness

program. This course is available to faculty/staff of Long Beach City College.

KINESIOLOGY, PROFESSIONAL PREPARATION(KINPP)

KINPP 1 (C-ID KIN 100) Introduction to Kinesiology 54 hours lecture Grading: letter grade

3.0 units

This course is a survey of the discipline of Kinesiology, including knowledge of the nature and importance of performing and studying physical activity. It includes an analysis of the lifelong importance of physical activity in daily life. The course surveys the general knowledge base of the discipline as reflected in the major sub-disciplines and reviews selected ideas in the historical, philosophical, sociological, physical, and psychological domains within human movement. In addition, the course introduces students to the general characteristics of the field's professions, to specific types of physical activity professions typically pursued by Kinesiology students and assists them in making some early career decisions.

Transferable to UC or CSU; see counselor for limitations

KINPP 4 Lifetime Wellness Principles 54 hours lecture Grading: letter grade

3.0 units

The course focuses on holistic and inter-related dimensions of wellness and explores the choices available that may encourage and enhance the quality of life. The dimensions of wellness include: physical, social, emotional, occupational, intellectual, environmental, and spiritual. The course provides an opportunity for students to learn positive life skills and expand selfawareness. The course promotes personal, family and community wellness.

Transferable to UC or CSU; see counselor for limitations

KINPP 5 Sports Appreciation 54 hours lecture Grading: letter grade 3.0 units

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

3.0 units

3.0 units

2.0 units

KINPP 7 Intro to Community Recreation 54 hours lecture

Grading: letter grade

This course is designed for recreation majors and nonmajors. 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.

Transferable to UC or CSU; see counselor for limitations

KINPP 8 3.0 units **Stress Management through Physical Activity** 54 hours lecture

Grading: letter grade or pass/no pass

This course addresses many facets of stress with an emphasis on physical activity as a coping strategy. Many training methods and activities are taught along with the practice of relaxation techniques. The physiology of stress, disease and stress, and performance anxiety are also within the scope of this course.

Transferable to UC or CSU; see counselor for limitations

KINPP 10 Prevention & Care of Athletic Injuries 54 hours lecture, 9 hours 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 class. Transferable to UC or CSU; see counselor for limitations

KINPP 12 Techniques of Physical Fitness 36 hours lecture Grading: letter grade or pass/no pass

Formerly KINPF 83AD. This course provides methods and concepts of lifetime physical fitness and nutritional

understanding. Analyses of instruction, practice, and practical techniques for evaluating one's own physical fitness status will be covered. This course is designed to explore approaches for practice and evaluation of physical fitness status for reserve capacity in cardiovascular endurance, local muscular endurance, muscular strength and joint mobility. Transferable to UC or CSU; see counselor for limitations

KINPP 14 Theory of Athletic Coaching 54 hours lecture Grading: letter grade

This course is an introduction to the profession of athletic coaching. With emphasis on a comprehensive approach to the art and science of coaching, the development of a coaching philosophy will be explored and validated by a greater understanding of the psychology, physiology and management of sport. Areas of concentration will include, coaching objectives and style, communication and motivation skills, training principles and techniques and team management strategies.

Transferable to UC or CSU; see counselor for limitations

KINPP 15

3.0 units

3.0 units

3.0 units

Sports Officiating (Fall) 36 hours lecture, 54 hours laboratory Grading: letter grade

The course provides theory in officiating both intramural college and high school fall/winter sports. Students will participate as actual game officials during on-campus intramural competition. This course is open to all students and is designed for those seeking professional preparation to be able to officiate Fall/Winter sports. Students may have to attend off-campus sporting events for observation purposes.

Transferable to UC or CSU; see counselor for limitations

KINPP 17 Sports Officiating (Spring) 36 hours lecture, 54 hours laboratory Grading: letter grade

The course provides theory in officiating both intramural college and high school winter/spring sports. Students will participate as actual game officials during on campus intramural competition. This course is open to all students and is designed for those seeking professional preparation to be able to officiate winter/spring sports.

Students may have to attend off-campus sporting events for observation purposes.

Transferable to UC or CSU; see counselor for limitations

KINPP 23 (C-ID KIN 101) 3.0 units First Aid and Safety 54 hours lecture Grading: letter grade

his course will introduce students to the techniques and the principles involved in rendering prompt and necessary emergency care to the injured or ill. Instruction will cover core material for breathing and cardiac emergencies, sudden illnesses, soft tissue injuries, environmental incidents, musculoskeletal injuries, and other special circumstances. Students will practice the skills and procedures for cardiopulmonary resuscitation (CPR), rescue breathing, and the proper use of an Automatic External Defibrillator (AED). With the successful completion of this course students will have the opportunity to become certified in the Standard First Aid and Personal Safety and Cardiopulmonary Resuscitation (CPR) Certificates granted by the American Red Cross.

Transferable to UC or CSU; see counselor for limitations

KINPP 70 3.0 units **Fitness Program Design & Instruction** 54 hours lecture Grading: letter grade

This course is designed to provide the student with the theoretical knowledge and practical skills needed to prepare for the National Academy of Sports Medicine Personal Training Certification Examination. Topics will include application of the applied sciences, program design and implementation of integrated fitness training for healthy adults and special populations, communication, health psychology, teaching techniques, injury prevention and safety, professional responsibilities, and business fundamentals. This course fulfills half of the necessary coursework needed to prepare for the NASM certification. (Formerly KINPP 70B) Transferable to CSU

KINPP 75 3.0 units **Exercise Science & Fitness Assessment** 54 hours lecture Grading: letter grade

This course is designed to provide the theoretical knowledge necessary to prepare for the National Academy of Sports Medicine Personal Training

Certification exam. Topics include exercise physiology, human anatomy, applied kinesiology, basic nutrition, health screening, the theory of fitness assessment, and exercise adaptation. This course fulfills half of the necessary coursework needed to prepare for the NASM certification. (Formerly KINPP 70A) Transferable to CSU

KINPP 203 Kines and Musculoskeletal Foundations 54 hours lecture

Grading: letter grade

3.0 units

This course approaches the study of the human body primarily from a functional perspective. There will be emphasis on the relationship between the muscles and the bone as they relate to human movement. This class is designed for Kinesiology students, massage therapists, personal trainers, coaches and others interested in the overall health of individuals.

KINPP 230 Kinesiology Practicum

3.0 units

36 hours lecture, 54 hours laboratory Prerequisite: KINPP 70B Grading: letter grade

This course is designed to provide students in the Kinesiology Major or Personal Training Certificate programs with practical experience in the field. Students will be expected to participate in a minimum number of hours in a supervised practice setting at an on-campus facility. Emphasis is placed on, but not limited to, subject assessment, communication skills, program design, teaching strategies, self-marketing and professional responsibility and liability.

KINPP 233 3.0 units **Techniques of Strength and Conditioning** 54 hours lecture Grading: letter grade

This course is designed for the student in the Personal Trainer Certificate Program, planning to study and teach movement as it relates to exercise under both normal and injured conditions. Students learn the practical implications of bone, joint, nerve, and muscle actions. Emphasis is placed on applying body alignment, range of motion, stabilization, and acceleration principles to the development of safe exercise programs.

3.0 units

BUSINESS, LAW (LAW)

LAW 18 (C-ID BUS 125) Fundamentals of Business Law 54 hours lecture Grading: letter grade 3.0 units

3.0 units

Formerly LAW 18A. 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.

Transferable to UC or CSU; see counselor for limitations

LAW 19 Legal Environment of Business 54 hours lecture Grading: letter grade

Formerly LAW 18B. 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.

Transferable to UC or CSU; see counselor for limitations

LAW 20 3.0 units Property Law 54 hours lecture Grading: letter grade

Formerly REAL 83A. This course is designed to explore the overall fundamental understanding of the law of property. The course covers laws, regulations, and restrictions regarding the ownership and use of property. Topics include the nature of property, property descriptions, estates and other interests in property, coownership, methods of property transfer, landlord/tenant law, property contract, agency, and financing concepts., and government controls. Transferable to CSU

LEARNING AND ACADEMIC RESOURCES (LEARN)

LEARN 11 Learning and Academic Strategies 54 hours lecture Grading: letter grade

This is a comprehensive learning and academic strategies success 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 college success. In addition, this course provides an exploration of the psychological, social and physical factors that influence success in college and in life. In order to assist students with the challenges of the course content, students are required to complete 3 hours of Supplemental Learning Assistance activities in a Multidisciplinary Success Center over the course of the semester.

Transferable to UC or CSU; see counselor for limitations

3.0 units

LEARN 11H Honors Learning and Academic Strategies 54 hours lecture

Prerequisite: Qualification for the Honors Program Grading: letter grade

This is a comprehensive learning and academic strategies success 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 college success. In addition, this course provides an exploration of the psychological, social and physical factors that influence success in college and in life. In order to assist students with the challenges of the course content, students are required to complete 3 hours of Supplemental Learning Assistance activities in a Multidisciplinary Success Center over the course of the semester.

Transferable to UC or CSU; see counselor for limitations

LEARN 610 Basic Study Skills Laboratory 54 hours laboratory Grading: LBCC non-graded course

This is a non-credit course in basic learning and success skills. This course covers a variety of fundamental learning, college success, and study skills. The content

3.0 units

will be presented through a selection of instructional options.

0.0 unit

LEARN 650 Supervised Tutoring 18 hours 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.

LIBRARY (LIB)

LIB 1 2.0 units Information and Media Literacy 36 hours lecture Grading: letter grade or pass/no pass

This course is designed to assist students in mastering the access and evaluation of information across several formats. Topics include the landscape of credible information, media literacy, factors contributing to the rise of post truth information such as fake news and deep fake videos, and the roles of libraries in providing access to credible information.

Transferable to UC or CSU; see counselor for limitations

LIB 2 1.0 unit Searching Databases 18 hours lecture Grading: letter grade or pass/no pass

This course is a hands-on introduction to research databases and their structures. It emphasizes evaluation of information, search strategies, and search techniques used to effectively access and retrieve information in the online environment. This course will be beneficial for students who wish to develop vital information searching and retrieval skills for both academic and professional purposes.

Transferable to CSU

3.0 units

LIB 3 Academic Research Strategies 54 hours lecture Grading: letter grade or pass/no pass This course is designed to help students navigate the world of academic research and increase their agency as information-literate citizens. This course encompasses aspects of information literacy, citation, and research strategies.

Transferable to UC or CSU; see counselor for limitations

LIB 200 Foundation of Library Services 54 hours lecture Grading: letter grade or pass/no pass

This course is designed to help students become familiar with the mission and roles of libraries. It surveys the roles of library staff and the responsibilities of Access Services, Collection Services, Information Services, and Technical Services. Additional topics include ethics, values, and issues faced by library support staff in libraries.

LIB 210 3.0 units Introduction to Access Services 54 hours lecture

Recommendation Preparation: LIB 200 or LIB 600 Grading: letter grade or pass/no pass

Formerly LIB 202. 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 2203.0 unitsIntroduction to Acquisitions54 hours lectureRecommendation Preparation: LIB 200 or LIB 600

Grading: letter grade or pass/no pass

Formerly LIB 203. This course is designed to teach students the valuable skills required to become qualified library technicians. This course focuses on the goals, functions, standards, and practices of collection development and acquisitions in the Technical Services unit of libraries.

LIB 230 3.0 units Special Topics in Library Services 54 hours lecture Recommendation Preparation: LIB 200 or LIB 600 Grading: letter grade or pass/no pass

0.0 unit

0.0 unit

This course is designed to help students become familiarized with the mission and roles of libraries. It surveys the roles of library staff by introducing the roles of supervisors and managers; the role of reference and information services; and the influence of emerging technologies in various library services.

3.0 units

LIB 240 **Introduction to Cataloging** 54 hours lecture

Recommendation Preparation: LIB 200 or LIB 600 Grading: letter grade or pass/no pass

Formerly LIB 201. 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.

LIB 250 3.0 units Introduction to Youth Services 54 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: the needs and literacy skills of youth from infant to teen, familiarization with print and digital library resources for youth, customer service and outreach strategies, creating programs, and instruction.

LIB 271WE 1.0 - 4.0 units Work Experience-Library Technician 72 hours laboratory Prerequisite: LIB 200 Recommended Preparation: LIB 210, LIB 220, LIB 230, LIB

240, LIB 250 Grading: letter grade or pass/no pass

This is a variable unit course, ranging from 1 to 4 units depending on the hours of work experience. See schedule of classes. Students learn and gain on-the-job experience in the Library Science and Information field. Learning objectives are established collaboratively by the student, supervisor, and instructor. A minimum of sixty (60) hours of non-paid work or seventy-five (75) hours of paid work during the semester are required for each unit of credit. Students may earn from 1 to 4 units credit. *Note: Transfer limitations.

LIB 600 **Foundations of Library Services** 54 hours lecture Grading: LBCC non-graded course

This course is designed to help students become familiar with the mission and roles of libraries. It surveys the roles of library staff and the responsibilities of Access Services, Collection Services, Information Services, and Technical Services. Additional topics include ethics, values, and issues faced by library support staff in libraries.

LIB 601 Information and Media Literacy 36 hours lecture Grading: LBCC non-graded course

This course is designed to assist students in mastering the access and evaluation of information across several formats. Topics include the landscape of credible information, media literacy, factors contributing to the rise of post truth information such as fake news and deep fake videos, and the roles of libraries in providing access to credible information.

LIB 602 0.0 unit **Searching Databases 18 hours lecture** Grading: LBCC non-graded course

This course is a hands-on introduction to research databases and their structures. It emphasizes evaluation of information, search strategies, and search techniques used to effectively access and retrieve information in the online environment. This course will be beneficial for students who wish to develop vital information searching and retrieval skills for both academic and professional purposes.

LIB 603 **Academic Research Strategies** 54 hours lecture

0.0 unit

Grading: LBCC non-graded course

This course is designed to help students navigate the world of academic research and increase their agency as information-literate citizens. This course encompasses aspects of information literacy, citation, and research strategies.

0.0 unit

LIB6100.0unitIntroduction to Access Services54 hours lectureRecommended Preparation: LIB 200 or LIB 600Grading: LBCC non-graded course

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 620 0.0 unit Introduction to Acquisitions 54 hours lecture Percommended Propagation: LIP 200 or LIP 600

Recommended Preparation: LIB 200 or LIB 600 Grading: LBCC non-graded course

This course is designed to teach students the valuable skills required to become qualified library technicians. This course focuses on the goals, functions, standards, and practices of collection development and acquisitions in the Technical Services unit of libraries.

0.0 unit

LIB 630 Special Topics in Library Services 54 hours lecture

Recommended Preparation: LIB 200 or LIB 600 Grading: LBCC non-graded course

This course is designed to help students become familiarized with the mission and roles of libraries. It surveys the roles of library staff by introducing the roles of supervisors and managers; the role of reference and information services; and the influence of emerging technologies in various library services.

LIB6400.0unitIntroduction to Cataloging54 hours lectureRecommended Preparation: LIB 200 or LIB 600

Grading: LBCC non-graded course

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. LIB 650 Introduction to Youth Services 54 hours lecture Grading: LBCC non-graded course

This course is designed to teach students the valuable skills necessary to become qualified technicians. Topics will include: the needs and literacy skills of youth from infant to teen, familiarization with print and digital library resources for youth, customer service and outreach strategies, creating programs, and instruction.

LINGUISTICS (LING)

LING 1 3.0 units Linguistics 1 54 hours lecture Recommended Preparation: ENGL 105 or ESL 34X Grading: letter grade

This course provides insight into the structure of language, an introduction to methods of linguistic analysis and an overview of the sub-fields of linguistics studies. This includes surveys of the sounds, structure, and development of language, the differences and relationships among languages, and the study of language in connection with its social and cultural function.

Transferable to UC or CSU; see counselor for limitations

LING 1H Honors Linguistics 1 54 hours lecture

3.0 units

Prerequisite: Qualification for the Honors Program Recommended Preparation: ENGL 105 or ESL 34X Grading: letter grade

This course provides insight into the structure of language, an introduction to methods of linguistic analysis and an overview of the sub-fields of linguistics studies. This includes surveys of the sounds, structure, and development of language, the differences and relationships among languages, and the study of language in connection with its social and cultural function. Eligibility for the Honors Program required for enrollment.

Transferable to CSU

3.0 units

LING 3	3.0 units
Introduction to World Languages	

54 hours lecture Recommended Preparation: LIB 1 and LING 1 and ENGL 1 Grading: letter grade

This course provides an introduction to the languages of the world: the diversity, structural characteristics, and methods of classifying languages into families and types. It examines the distinctive features of several representative languages through class discussion, readings, and online materials. It addresses pidgins and creoles; unaffiliated languages; language contact; language endangerment, death, and revitalization; and new directions in research, along with related ethical and socio-political issues and concerns.

Transferable to UC or CSU; see counselor for limitations

MEDICAL ASSISTING (MA)

MA 270 Introduction to Medical Assisting 36 hours lecture, 54 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 eight weeks. In order to assist students with the challenges of the course content, students are required to complete 3 hours of Supplemental Learning Assistance activities in a Multidisciplinary Success Center over the course of the semester.

MA 280

3.0 units

3.0 units

Health Care Clinical Procedures 36 hours lecture, 54 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

Advanced Health Care Clinical Procedures 36 hours lecture, 54 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 286 4.0 units **Medical Assisting Combined Practicum** 216 hours laboratory Prerequisite: 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 as well as the clinical aspects of Medical Assisting.

MA 288 1.0 unit **Medical Assisting Practicum Seminar** 18 hours lecture Corequisite: MA 284A, MA 284B 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 **Basic Medical Insurance Billing** 36 hours lecture, 54 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-10, and CPT coding, to successfully file claims and effect collection of payment for medical services given.

MACHINE TOOL (MACHT)

MACHT 202 CNC Programming 3.0 units

5.0 units

5.0 units

36 hours lecture, 72 hours laboratory Grading: letter grade

This course covers the study of Computer Numerical Control (CNC) programming with emphasis on contouring, canned cycles, cutter diameter compensation, looping, macro subroutines and multiple part programming for three axis milling machines and CNC lathes.

MATHEMATICS (MATH)

MATH 21A (C-ID MATH 110*) **Statistics Pathway A** 90 hours lecture Prerequisite: MATH 815 Grading: letter grade

Part A of the two-course Statway series. Math 21A and 21B together condense the sequence of beginning algebra, intermediate algebra and statistics into a twosemester sequence. Students will study: experiment and observational study design, sample methods, data measures, graphical techniques, scatter plots, correlation and regression, probability, sampling, exponential functions, residual plots, two-way tables, probability, the normal distribution and z-scores, and probability distributions. Emphasis is on the collection and analysis of actual data. Algebraic skills and techniques are integrated into the presentation of statistical methods. This course is intended for non-STEM majors. Math 21A and 21B together provide STAT 1 credit. Transferable to CSU

MATH	21B	(C-ID	MATH 1	L 10*)	
Statisti	cs Pat	hway	В		
90 hou	rs lect	ure			
Prerequ	uisite:	MATH	121A		
Grading	g: lette	er grad	de		

Part B of the two-course Statway series. Math 21A and 21B together condense the sequence of beginning algebra, intermediate algebra and statistics into a twosemester sequence. Students will study: averages, variability, graphical techniques, probability, probability distributions, normal distribution, Chi-Square distributions, hypothesis testing, sampling, estimation and confidence intervals, correlation, prediction, linear

regression, and ANOVA analysis. Emphasis is on the collection and analysis of data and how inferences about a population are made from a sample. Algebraic skills are integrated into the presentation of statistical methods. This course is intended for non-STEM majors. Math 21A and 21B together provide STAT 1 credit. Transferable to UC or CSU; see counselor for limitations

MATH 27 3.0 units **Probability and Statistics for Elementary Teachers** 54 hours lecture, 18 hours laboratory

Prerequisite: MATH 130, 130B, 140 or one year of high school intermediate algebra with a grade of B or better, and MATH 28 and MATH 120 or one year high school geometry or qualification through the LBCC 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 probability, statistics, representing and interpreting data, and variability. Transferable to UC or CSU; see counselor for limitations

MATH 28 (C-ID MATH 120) 3.0 units **Mathematics for Elementary Teaching I** 54 hours lecture, 18 hours laboratory

Prerequisite: MATH 140 or MATH 130 or MATH 130B or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade

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, as is the problem solving process. The lab incorporates individual and group activities in the exploration of topics.

Transferable to UC or CSU; see counselor for limitations

MATH 29

3.0 units

Math for Elementary Teaching II 54 hours lecture, 18 hours laboratory Prerequisite: MATH 28 and MATH 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 through the use of manipulatives and a geometry drawing utility. Writing is emphasized throughout the course.

Transferable to UC or CSU; see counselor for limitations

MATH 37 3.0 units

Finite Mathematics 54 hours lecture

Prerequisite: MATH 130 or MATH 130B or MATH 140 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.

Transferable to UC or CSU; see counselor for limitations

MATH 40 Trigonometry

3.0 units

54 hours lecture

Prerequisite: MATH 130, 130B, 140 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 LBCC 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. Transferable to CSU

MATH 454.0 unitsCollege Algebra72 hours lecturePrerequisite: MATH 130 or MATH 130B or MATH 140Grading: 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.

Transferable to UC or CSU; see counselor for limitations

MATH 47 (C-ID MATH 140)	3.0 units
Calculus for Business	
54 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, and exponential and logarithmic functions. The course is appropriate for students who wish to pursue a career in business and economics.

Transferable to UC or CSU; see counselor for limitations

MATH 50 Precalculus Math 90 hours lecture

5.0 units

90 hours lecture Prerequisite: MATH 40 or qualification through the LBCC assessment process for math 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.

Transferable to UC or CSU; see counselor for limitations

MATH 55

4.0 units

Discrete Mathematics 72 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.

Transferable to UC or CSU; see counselor for limitations

MATH 60 (C-ID MATH 210) **First Calculus Course** 90 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 Grading: letter grade

5.0 units

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.

Transferable to UC or CSU; see counselor for limitations

MATH 60H (C-ID MATH 210) 5.0 units **Honors First Calculus Course** 90 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 and qualification for the Honors Program

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.

Transferable to UC or CSU; see counselor for limitations

MATH 70 (C-ID MATH 220) 5.0 units **Second Calculus Course** 90 hours lecture Prerequisite: MATH 60 Grading: letter grade

This course is the second in the calculus sequence. Topics include Integration Techniques, Improper Integrals, Applications of Integration, Differential Equations, Parametric and Polar Functions and their Graphs, Sequences, and infinite Series and their applications. Transferable to UC or CSU; see counselor for limitations

MATH 70H (C-ID MATH 220) 5.0 units Honors Second Calculus Course 90 hours lecture Prerequisite: MATH 60 and gualification for the Honors Program Grading: letter grade

This course is the second in the calculus sequence. Topics include Integration Techniques, Improper Integrals, Applications of Integration, Differential Equations, Parametric and Polar Functions and their Graphs, Sequences, and infinite Series and their applications. Transferable to UC or CSU; see counselor for limitations

MATH 80 (C-ID MATH 230)	5.0 units
Third Calculus Course	
90 hours lecture	
Prerequisite: MATH 70	
Grading: letter grade	

This course is calculus of functions of more than one variable. Topics include vectors and the geometry of space, vector functions, partial derivatives, multiple integrals and vector calculus concepts such as Green's Theorem, Stoke's Theorem, Divergence Theorem, gradient and curl. Transferable to UC or CSU; see counselor for limitations

MATH 84 (C-ID MATH 240/MATH 250/MATH 910S) Intro Differential Eqns and Linear Alg 90 hours lecture Prerequisite: MATH 80 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 activities in which students use computers to enhance their understanding of the topics covered in the course.

Transferable to UC or CSU; see counselor for limitations

MATH 110 First Course in Algebra 90 hours lecture Grading: letter grade or pass/no pass

5.0 units

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.

MATH 110A3.0 unitsFirst Course in Algebra-Part 154 hours lecture, 18 hours laboratoryGrading: 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. A student may receive credit for either MATH 110 or 110A and 110B.

MATH 110B3.0 unitsFirst Course in Algebra-Part 254 hours lecture, 18 hours laboratoryPrerequisite: MATH 110AGrading: 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.

MATH 115 Applied Math 72 hours lecture

4.0 units

Prerequisite: ELECT 225 or MATH 110, 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 or qualification through the LBCC assessment process for math Recommended Preparation: READ 882 Grading: letter grade or pass/no pass

This course is modified intermediate algebra course meant as an alternative pathway for students not intended to take trigonometry or college algebra. Intermediate algebra concepts will be studied, but lessons will be infused with more real world applications that will not only prepare students for statistics and liberal arts math but will appeal to certain trades students who would use this class to satisfy the math requirement for their AA degree. Topics would include linear equations, functions, applications and their graphs, polynomial equations and applications, exponential and logarithmic applications, as well as basic geometry, trigonometric applications, vectors, counting and probability, and basics statistics concepts. Students are required to complete 4 hours of supplemental learning activities in a designated Success Center.

MATH 120 Geometry 72 hours lecture 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, area, volume, right triangle trigonometry, analytic geometry, and constructions.

MATH 130 Intermediate Algebra 90 hours lecture

5.0 units

4.0 units

Prerequisite: Qualification through the LBCC assessment process for math 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 course continues the study of algebra in preparation for transfer level courses. Topics include polynomial, rational polynomial, root, quadratic, exponential and logarithmic functions and equations; graphing; systems of equations and inequalities; factoring; and numerical expressions with roots and complex numbers. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center.

3.0 units

MATH 130A Intermediate Algebra, Part A 54 hours lecture

Prerequisite: Qualification through the LBCC assessment process for math 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 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.

MATH 130B3.0 unitsIntermediate Algebra, Part B54 hours lecturePrerequisite: MATH 130AGrading: 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.

MATH 140

6.0 units

108 hours lecture Prerequisite: MATH 815 or qualification through the LBCC assessment process for math Recommended Preparation: READ 882 Grading: letter grade or pass/no pass

This course combines the topics found in a beginning and intermediate algebra class and is meant as an accelerated 1-semester alternative to the normal Math 110/130 2-semester sequence. Topics typically duplicated in an intermediate algebra course shall be covered once, at greater length and in greater detail. Topics include solving linear and quadratic equations and inequalities; polynomial, exponential and logarithmic functions; graphing linear and quadratic functions; polynomial, rational, and radical arithmetic; solving rational, radical, exponential and logarithmic equations; graphing lines, parabolas, and other conic sections; and complex numbers. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center.

MATH 650 Math Learning Center 18 hours 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.

MATH 805 Modern Arithmetic 72 hours lecture Grading: pass/no pass 4.0 units

0.0 unit

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.

MATH 815 Preparation for Algebra 72 hours lecture Grading: pass/no pass

4.0 units

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.

Beginning & Intermediate Algebra

MATH 825 Culinary Math 18 hours lecture Grading: pass/no pass 1.0 unit

This course is designed for students in the Culinary Arts program to study the mathematical principles in the context of commercial food production. Topics include recipe conversion, scaling and yields, production baking formulas, weights and measures, product yield tests, and recipe and food cost analysis.

MATH 828X 1.0 unit Foundations for Elementary Math Teaching 18 hours lecture Corequisite: MATH 28 Grading: pass/no pass

Math 828X utilizes a contextualized "just-in-time" approach to provide review of the core pre-requisite skills, competencies, and concepts required to be successful in the co-requisite MATH 28 Math for Elementary Teaching I course. Classroom activities are designed to build collegiate mathematics skills with an emphasis on foundations for teaching of mathematics in elementary school.

MATH 840X	2.0 units
Trigonometry Skills Support	
36 hours lecture	
Corequisite: MATH 40	
Grading: pass/no pass	

This course offers concurrent instructional support for MATH 40 students whose placement indicates they need additional practice in topics such as angles and trigonometric functions, graphs of trigonometric functions, trigonometric identities, foundations for solving trigonometric equations, foundations for applications of trigonometry and foundations for complex numbers and polar coordinates. The course supplements the skills and support necessary to complete MATH 40 concurrently during a single semester.

MATH 845X Algebra Skills Support 36 hours lecture Corequisite: MATH 45 Grading: pass/no pass 2.0 units

This course offers concurrent instructional support for MATH 45 students whose placement indicates they need

additional practice in algebra topics such as equations, inequalities, problem solving, graphing, polynomials and polynomial functions. The course supplements the skills and support necessary to complete MATH 45 concurrently during a single semester.

BUSINESS, MANAGEMENT (MGMT)

MGMT 49 Introduction to Management 54 hours lecture Grading: letter grade 3.0 units

Formerly MGMT 49A. Introduction to Management is the entry level management course designed to introduce the traditional management tasks of planning, organizing, leading and controlling. Course topics will include important issues such as innovation, technology, diversity, quality, ethics and the global environment. Transferable to CSU

MGMT 50 Human Resource Management 54 hours lecture Grading: letter grade 3.0 units

Formerly MGMT 49B. This course will provide an introduction to the theory and practical applications of Human Resource Management (HRM): planning, recruiting, selecting, training and evaluating. Course topics will include important issues such as staffing and development, compensation and benefits, safety and health, labor-management relations, ethics and legal requirements.

Transferable to CSU

MGMT 58 Leadership and Supervision 54 hours lecture Grading: letter grade 3.0 units

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, personality, communication, group dynamics, and leadership development. Organizational issues will include satisfaction, productivity and performance. Transferable to CSU

MGMT 60	3.0 units
Management & Organization Behavior	
54 hours lecture	
Grading: letter grade	

This course provides a comprehensive view of Organizational Behavior from three 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. Transferable to CSU

MGMT 80 3.0 units Small Business Entrepreneurship 54 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. Transferable to CSU

BUSINESS, MARKETING (MKTG)

MKTG 40 Salesmanship 54 hours lecture Grading: letter grade 3.0 units

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. Transferable to CSU

MKTG 41 **Marketing Communications** 54 hours lecture Grading: letter grade

3.0 units

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. Transferable to CSU

MKTG 47 **Essentials of Marketing** 54 hours lecture Grading: letter grade

3.0 units

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. Transferable to CSU

MONEY MANAGEMENT (MONEY)

MONEY 690 **Money Basics and Goal Setting** 0.0 unit

0.0 unit

9 hours lecture Corequisite: MONEY 695 Grading: LBCC non-graded course

This course provides students the essential skills for personal money management. Students learn about basic budgeting, savings, debt, credit and set personal financial goals.

MONEY 695 Your Personal Financial Plan 9 hours lecture Corequisite: MONEY 690 Grading: LBCC non-graded course

Students apply the personal financial management skills learned in MONEY 690 and explore education, housing, transportation and investing to create a comprehensive financial plan specific to their life's vision.

METAL FABRICATION (MTFAB)

MTFAB 50 Introduction to Metalworking 54 hours lecture, 72 hours laboratory Grading: letter grade or pass/no pass

Formerly SHMET 50. This course is designed to provide students with a basic introduction to sheet metal fabrication, layout and career opportunities related to

the industry and "green technologies." 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. Transferable to CSU

MTFAB 90

3.0 units

Computer Integrated Manufacturing 36 hours lecture, 72 hours laboratory

Recommended Preparation: MATH 815 or ELECT 202 and ENGL 801A or equivalent

Grading: letter grade or pass/no pass

This course covers the integration of engineering technology principles and automation in manufacturing environments. Students will create three-dimensional designs with modeling software and produce actual components of their designs on Computer Numerically Controlled (CNC) machine tools. Additional topics covered include machine tool operations, simulations, Rapid Prototyping (RP), robotics, and manufacturing systems.

Transferable to CSU

MTFAB 220A Basic Metal Layout and Fabrication 54 hours lecture, 72 hours laboratory Grading: letter grade or pass/no pass

4.0 units

Formerly SHMET 220A. This course is designed to provide students with a basic introduction to sheet metal fabrication, layout and career opportunities related to the industry and "green technologies." 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 a designated Success Center for specially designed activities and assignments that relate to this course's content.

MTFAB 220B 4.0 units

Advanced Metal Layout and Fabrication 54 hours lecture, 72 hours laboratory Recommended Preparation: MTFAB 220A or MTFAB 50 Grading: letter grade or pass/no pass

Formerly SHMET 220B. This course is designed for people working in or wishing to enter the Sheet Metal trade 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 set up and operation of sheet metal fabrication power equipment with emphasis on training equal to industry standards. The course will also introduce the student to "green technologies" as they relate to energy efficiency and Solar Energy Systems found in the Sheet Metal industry. Students will be required to attend 5 hours in a designated Success Center for specially designed activities and assignments that relate to this course's content.

MTFAB 220C4.0 unitsPower Metalworking Machine Operations54 hours lecture, 72 hours laboratoryRecommended Preparation: MTFAB 220A or MTFAB 50

Recommended Preparation: MTFAB 220A or MTFAB 50 Grading: letter grade or pass/no pass

Formerly SHMET 220C. This course is designed for people working in or wishing to enter the metalworking trades in the fields of construction and manufacturing. This is a comprehensive course in powered sheet metal fabrication equipment. The course will cover the safe set up and operation of press brakes, ironworkers, turret punch, rotary machines, welders, shears, rollformers, tube benders, and notchers. Individualized hands-on experience in tool setup and job shop performance equal to industry standards will be provided. Students will also be introduced to the materials and fabrication techniques necessary to build a solar air heater.

MTFAB 220D

CNC Metal Fabrication Systems

4.0 units

54 hours lecture, 72 hours laboratory Recommended Preparation: MTFAB 220A or MTFAB 50 Grading: letter grade or pass/no pass

Formerly SHMET 220D. This course is designed for people working in or wishing to enter the metalworking trades in

the fields of construction and manufacturing. This is a comprehensive course on CNC metal fabrication software as it relates to press brake, plasma cutter, router and tube bender. The course will cover the use of software to design metal components as they relate to the construction and manufacturing fields, with additional emphasis placed on the design of metal products used in the emerging "green energy" fields.

MTFAB 221 2.0 units Construction Blueprint Reading 36 hours lecture

Recommended Preparation: MTFAB 220A or MTFAB 50 Grading: letter grade or pass/no pass

This course covers the principles of interpreting building blueprints and specifications required by the tradesman in the construction trades. The student will learn to use building plans and specifications to layout and order components used in mechanical systems. The course will also cover the interpretation of schematic drawings of "Green Technologies" as they relate to the construction trades in regards to solar energy systems and architectural roofing systems.

MTFAB 223 2.0 units Sheet Metal Duct Systems and Fabrication 36 hours lecture

Recommended Preparation: MTFAB 220A or MTFAB 50 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 with added emphasis on energy efficiency and sustainability.

MTFAB 260 3.0 units Blueprint Reading for Metal Fabrication 54 hours lecture Grading: letter grade

Examines blueprint interpretation practices commonly used by metal fabrication industries. Exposure to common drawing types, symbols, views, lines, dimensions, and tolerances. Emphasis placed on the

analysis of welding symbols as approved by the American Welding Society (AWS) and International Organization of Standardization (ISO).

MTFAB 270 Metallurgy 54 hours lecture Grading: letter grade

Introduces basic metallurgy as applied to metal fabrication and welding. Common heat treatment procedures, welding enhancement procedures, and thermal control of stress and strain in relation to ferrous and non-ferrous metals are emphasized. Proper determination of chemical contents of common steels, cast irons, stainless steels, and aluminum alloys are demonstrated.

MTFAB 280 Introduction to Robotic Welding 36 hours lecture, 27 hours laboratory Grading: letter grade

The first of a three-part series introducing fundamental theory and hands-on application of robotic welding automation. Emphasizes safety awareness, programming techniques, and basic gas metal arc welding applications using six-axis robotic welding systems.

MTFAB 281 Intermediate Robotic Welding 36 hours lecture, 27 hours laboratory Grading: letter grade 2.5 units

2.5 units

The second of a three-part series introducing intermediate level theory and hands-on application of robotic welding automation. Emphasizes safety awareness, programming techniques, and intermediate gas metal arc welding applications using six-axis robotic welding systems.

MTFAB 420 2.0 units Metal Fabrication and Layout 108 hours laboratory

Recommended Preparation: MTFAB 220A or MTFAB 50 Grading: letter grade or pass/no pass

Formerly SHMET 420. This course will address the techniques used in basic metal layout and fabrication. The course will also reinforce safe and correct setup and use of metal fabrication machinery and hand tools. This class is an open entry/exit program, and requires the completion of 108 lab hours.

MTFAB 421	1.0 unit
Metal Fabrication and Layout	
54 hours laboratory	
Recommended Preparation: MTFAB 220A	or MTFAB 50
Grading: pass/no pass	

This course will address the techniques used in basic metal layout and fabrication. The course will also reinforce safe and correct setup and use of metal fabrication machinery and hand tools.

MTFAB 4233.0 unitsMetal Fabrication and Layout162 hours laboratoryRecommended Preparation: MTFAB 220A or MTFAB 50Grading: pass/no pass

This course will address the techniques used in basic metal layout and fabrication. The course will also reinforce safe and correct setup and use of metal fabrication machinery and hand tools.

MUSIC (MUSIC)

MUSIC 1A (C-ID MUS 120) Music Theory I 54 hours lecture Prerequisite: MUSIC 6 Grading: letter grade or pass/no pass 3.0 units

This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period: diatonic harmony through four-part writing and roman numeral analysis, including the use of figured bass and early-species counterpoint, 7th chords, and the basic elements of form. Transferable to UC or CSU: see counselor for limitations

MUSIC 1B (C-ID MUS 130/MUS 140*) 3.0 units Music Theory II 54 hours lecture Prerequisite: MUSIC 1A

Grading: letter grade or pass/no pass

This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period: chromatic harmony through four-part writing and roman numeral analysis, including applied functions, modulation, mixture, Neapolitan chords, Augmented 6th chords, and small forms.

Transferable to UC or CSU; see counselor for limitations

MUSIC 2A (C-ID MUS 140*/MUS 150) 3.0 units Music Theory III 54 hours lecture Prerequisite: MUSIC 1B Grading: letter grade or pass/no pass

This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period, and early-mid 20th Century: enharmonic spellings and modulations, extended and advanced chromatic and altered chords, advanced chromatic sequences, alternate scales, advanced rhythmic techniques, and post-tonal techniques.

Transferable to UC or CSU; see counselor for limitations

MUSIC 5 (C-ID MUS 125)1.0 unitMusicianship I54 hours laboratoryCorequisite: MUSIC 6 and MUSIC 92ADGrading: letter grade or pass/no pass

Formerly MUSIC 5AD. This course 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.

Transferable to UC or CSU; see counselor for limitations

MUSIC 6 (C-ID MUS 110) Introduction to Music Theory 54 hours lecture 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

triads, and chords. This class is designed for both music majors and non-music majors.

Transferable to UC or CSU; see counselor for limitations

MUSIC 72.5 unitsElementary Voice36 hours lecture, 36 hours laboratoryGrading: letter grade or pass/no pass

Formerly MUSIC 7AB. 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 students will also be able to develop their self-confidence through class performance. Transferable to UC or CSU; see counselor for limitations

3.0 units

MUSIC 8AD 2.5 units **Advanced Voice** 36 hours lecture, 36 hours laboratory **Recommended Preparation: MUSIC 7** 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. Transferable to UC or CSU; see counselor for limitations

MUSIC 9 (C-ID MUS 135) 1.0 unit Musicianship II 54 hours laboratory

Prerequisite: MUSIC 5 Corequisite: MUSIC 1A Grading: letter grade or pass/no pass

Formerly MUSIC 9AD. This course covers the techniques of musical dictation and sight-singing with intermediate, diatonic tonal materials. Topics covered are intermediate scales, intervals, chord structures, and harmonicmelodic-rhythmic dictation. Transferable to UC or CSU; see counselor for limitations

MUSIC 10 (C-ID MUS 145)	1.0 unit
Musicianship III	
54 hours laboratory	
Prerequisite: MUSIC 9	
Corequisite: MUSIC 1B	
Grading: letter grade or pass/no pass	

Formerly MUSIC 10AD. This course covers the techniques of musical dictation and sight-singing with intermediate and semi-advanced, diatonic and chromatic tonal materials. Topics covered are advanced scales, intervals, chord structures, and harmonic-melodic-rhythmic dictation.

Transferable to UC or CSU; see counselor for limitations

MUSIC 11AD (C-ID MUS 180) Long Beach City College Viking Chorale 90 hours laboratory

1.5 units

Recommended Preparation: Prior vocal experience Grading: letter grade or pass/no pass

This course is a large choral ensemble that includes the study and performance of the classical 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.

Transferable to UC or CSU; see counselor for limitations

MUSIC 12AD (C-ID MUS 180) 1.5 units Long Beach City College Viking Singers 90 hours laboratory

Grading: letter grade or pass/no pass

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. Transferable to UC or CSU; see counselor for limitations

MUSIC 13AD (C-ID MUS 180) 1.5 units **College Symphony Orchestra** 90 hours laboratory **Recommended Preparation: Prior** instrumental/Orchestral Experience

This course is a study of orchestral techniques through reading, rehearsal and performance of standard literature. Participation in performances is required.

Transferable to UC or CSU; see counselor for limitations MUSIC 14AD 1.5 units

Orchestra 90 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. Transferable to UC or CSU; see counselor for limitations

MUSIC 15AD 1.5 units **Chamber Orchestra** 90 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

1.0 unit

MUSIC 16 (C-ID MUS 155) Musicianship IV 54 hours laboratory Prerequisite: MUSIC 10 Corequisite: MUSIC 2A Grading: letter grade

Formerly MUSIC 16AD. This course covers the techniques of musical dictation and sight-singing with advanced, chromatic tonal and atonal materials. Topics covered are advanced scales, intervals, chord structures, and harmonic-melodic-rhythmic dictation. Transferable to UC or CSU; see counselor for limitations

MUSIC 17A 0.5 unit Advanced Applied Vocal & Instrumental Music 36 hours laboratory

Prerequisite: At least 2 semesters of MUSIC 92AD and performing audition before the program faculty Corequisite: MUSIC 11AD or 14AD or 46 and MUSIC 6 or 1A or 1B or 2A and MUSIC 5 or 9 or 10 or 16 Grading: letter grade

Formerly MUSIC 17. This course continues the skills and outcomes of Music 92AD in preparation for advanced repertoire and techniques in performance, and also serves as major preparation for the transfer audition. This also serves as the final preparation for a sophomore recital.

Transferable to UC or CSU; see counselor for limitations

MUSIC 192.5 unitsBeginning Instruments36 hours lecture, 36 hours laboratoryGrading: 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.

Transferable to UC or CSU; see counselor for limitations

MUSIC 20 1.5 units LBCC Southland Chorale 90 hours laboratory Recommended Preparation: Prior vocal experience

Grading: letter grade or pass/no pass

Formerly MUSIC 20AD. The Southland Chorale will study and perform choral music of all historical musical periods. Singers will perform repertoire including a'capella, orchestra choral works, secular and sacred, light opera and musical theatre. The Southland Chorale involves participation in all concerts and performances. Transferable to UC or CSU; see counselor for limitations

MUSIC 23AD (C-ID MUS 180*)1.5 unitsJazz Choir90 hours laboratoryGrading: letter grade or pass/no pass

This course involves the study and performance of the standard large ensemble jazz repertoire from all historical jazz musical periods. Attendance at all rehearsals and performances is mandatory. Audition to qualify for enrollment will occur during the first class meeting or as scheduled in the schedule of classes. Transferable to CSU

MUSIC 24AD (C-ID MUS 180*)	1.5 units
Vocal Jazz Ensembles	
90 hours laboratory	
Grading: letter grade or pass/no pass	

This course will focus on small vocal/chamber Jazz repertoire with performances. All periods and styles of vocal Jazz ensemble music will be covered and performed as it pertains to small vocal/chamber Jazz ensembles. Attendance at all rehearsals and performances is mandatory. Audition to qualify for enrollment will occur during the first class meeting or as scheduled in the schedule of classes. Transferable to CSU

MUSIC 25AD 1.5 units Chamber Music Ensemble 90 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, string ensemble, and guitar ensemble. The repertoire performed is mainly classical in nature, but may include contemporary compositions and popular arrangements.

Transferable to UC or CSU; see counselor for limitations

COURSES

MUSIC 27 1.5 units Brass Ensemble 90 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. The brass repertoire can include various styles from classical to contemporary music as well as jazz and pop arrangements.

Transferable to UC or CSU; see counselor for limitations

MUSIC 28AD1.5 unitsPercussion Ensemble90 hours laboratoryGrading: letter grade or pass/no pass

Students will learn various skills and techniques for playing snare drum and various other percussion instruments. Music reading, drum rudiments, percussion techniques, and musicianship are emphasized. Students will perform in small and large percussion ensembles. Students must provide their own sticks and practice pad. Transferable to UC or CSU; see counselor for limitations

MUSIC 30A 3.0 units Music History: Antiquity to 1750 54 hours lecture

Recommended Preparation: ENGL 105 or ESL 34X or qualify for ENGL 1 through the assessment process 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. Transferable to UC or CSU; see counselor for limitations

3.0 units

MUSIC 30B

Music History: 1750-Present 54 hours lecture

Recommended Preparation: ENGL 105 or ESL 34X or qualify for ENGL 1 through the assessment process 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. Transferable to UC or CSU; see counselor for limitations

MUSIC 32 History of Jazz 54 hours lecture Grading: letter grade 3.0 units

3.0 units

This course traces the development of the jazz tradition from its multicultural roots into styles like blues, ragtime, swing, bebop, and post-bop. This course also focuses on the development of jazz music alongside the critical, cultural, and social issues associated with black society and American history.

Transferable to UC or CSU; see counselor for limitations

MUSIC 33B Intercultural Music 54 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.

Transferable to UC or CSU; see counselor for limitations

MUSIC 353.0 unitsMusic of Multicultural America54 hours lectureGrading: 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. This class will feature the music histories and progression of Native Americans, European Americans, African Americans, Chicano/Latino Americans, Pacific Islanders, Asian Americans and Middle Eastern Americans. Students will gain the knowledge and skills necessary to understand and interpret analyses of musical traditions from technical and cultural perspectives. Students will progress through the sequential development of listening and descriptive skills with a variety of media including films, recordings, hands-on performance activities, and computer-assisted instruction.

Transferable to UC or CSU; see counselor for limitations

MUSIC 38AD (C-ID MUS 180)	1.5 units
Wind Ensemble	
90 hours laboratory	
Recommended Preparation: Prior instr	umental
experience	

Grading: letter grade or pass/no pass

This course involves the study and performance of music composed for winds and percussion instruments, usually with one player per part. The musical literature represented includes all contemporary wind ensemble music as well as classical arrangements and transcriptions. The wind ensemble typically performs at least two concerts per semester.

Transferable to UC or CSU; see counselor for limitations

MUSIC 40 (C-ID MUS 100)	3.0 units
Appreciation of Music	
54 hours lecture	
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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.

Transferable to UC or CSU; see counselor for limitations

MUSIC 40H (C-ID MUS 100)	3.0 units
Honors Appreciation of Music	
54 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 maiors.

Transferable to UC or CSU; see counselor for limitations

MUSIC 41AD 1.5 units Madrigal A'Capella Choir 90 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. Transferable to UC or CSU; see counselor for limitations

1.0 unit Jazz Improvisation Techniques 54 hours laboratory Prerequisite: MUSIC 6

Grading: letter grade or pass/no pass

MUSIC 43

This course covers basic techniques in Jazz improvisation, beginning with simple question and answer phrases and progressing to extended solos. The course will study standard instrumental and vocal jazz repertoire and students will learn detailed and applied knowledge of standard chord progressions. Transferable to CSU

MUSIC 44	1.0 unit
The Evening Jazz Choir	
90 hours laboratory	
Recommended Preparation: Prior vocal expo	erience
Grading: letter grade or pass/no pass	

Formerly MUSIC 44AD. 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.

Transferable to UC or CSU; see counselor for limitations

MUSIC 46AD 1.5 units **College Symphonic Band** 90 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 a symphonic band. Instrumentation includes brass, woodwinds, and percussion instruments. The symphonic band typically performs two times per semester. The musical literature represented includes both new symphonic band music as well as classical arrangements and transcriptions.

Transferable to UC or CSU; see counselor for limitations

1.5 units

1.5 units

1.5 units

1.5 units

MUSIC 47AD Wind Symphony 90 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.

Transferable to UC or CSU; see counselor for limitations

MUSIC 49AD 1.5 units Viking Show Band 90 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. While all repertoires are considered, the majority of music performed is popular in nature such as pop, rock, jazz, swing, and funk. The instrumentation of the Viking Show Band includes woodwinds and brass instruments that are found in a marching as well as electric guitar, electric bass, drum set, auxiliary percussion and vocalists. Transferable to CSU

MUSIC 51A **Beginning Piano 1** 18 hours lecture, 36 hours laboratory

Grading: letter grade

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 is the first in a sequence to fulfill keyboard skills for music majors.

Transferable to UC or CSU; see counselor for limitations

MUSIC 51B **Beginning Piano 2** 18 hours lecture, 36 hours laboratory Prerequisite: MUSIC 51A. Grading: letter grade

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. Transferable to UC or CSU; see counselor for limitations

MUSIC 51C Intermediate Piano I 18 hours lecture, 36 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. Transferable to UC or CSU; see counselor for limitations

MUSIC 51D 1.5 units Intermediate Piano II 18 hours lecture, 36 hours laboratory Prerequisite: MUSIC 51C Grading: letter grade

This course will allow students to refine and develop intermediate keyboard skills. Piano technique, harmonization techniques, ensemble skills, and stylistic considerations are encountered in upper-intermediate piano repertoire. Transferable to CSU

MUSIC 54AD (C-ID MUS 180*)	1.5 units
Jazz Big Band	
90 hours laboratory	
Recommended Preparation: Prior Instrum	mental
experience	
Grading: letter grade	

This course involves the study and performance of jazz ensemble music. The Jazz Ensemble rehearses and performs music ranging from the classic big band repertoire to contemporary and cutting-edge concert jazz music by today's leading jazz composers. Typically two concert performances are required each semester. Audition to qualify for enrollment will occur during the

3.0 units

first class meeting or as scheduled in the schedule of classes.

Transferable to UC or CSU; see counselor for limitations

1.5 units

MUSIC 55

Beginning Guitar 18 hours lecture, 36 hours laboratory Grading: letter grade

Formerly MUSIC 55AD. This course provides beginning instruction in the guitar, using a classical approach to basic technique, musicianship, and repertoire. Transferable to UC or CSU; see counselor for limitations

MUSIC 561.5 unitsIntermediate Guitar18 hours lecture, 36 hours laboratoryPrerequisite: MUSIC 55Grading: letter grade

Formerly MUSIC 56AD. This course provides intermediate/advanced instruction in the guitar, using a classical approach to advanced technique, musicianship, ensemble work, and repertoire.

Transferable to UC or CSU; see counselor for limitations

MUSIC 57AD (C-ID MUS 180*) 1.5 units Jazz Combos 90 hours laboratory

Grading: letter grade or pass/no pass

The students in this course will perform original jazz classics, American songbook standards, and new compositions. Jazz combos consist of a rhythm section (bass, drums, piano or guitar) and one to four other instruments. Students perform one or two times each semester. Audition to qualify for enrollment will occur during the first class meeting or as scheduled in the schedule of classes.

Transferable to UC or CSU; see counselor for limitations

MUSIC 58	1.5 units
College Philharmonia	
90 hours laboratory	
Recommended Preparation: Prior successfu	l orchestral
experience	
Grading: letter grade or pass/no pass	

Formerly MUSIC 58AD. 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. Transferable to UC or CSU; see counselor for limitations

MUSIC 68 Basic Audio Theory 54 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. Transferable to CSU

MUSIC 712.5 unitsIntroduction to Music Technology36 hours lecture, 36 hours laboratoryGrading: letter grade or pass/no pass

Formerly MUSIC 71AD. 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. Transferable to CSU

MUSIC 89 History of Rock 54 hours lecture Grading: letter grade or pass/no pass 3.0 units

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.

Transferable to UC or CSU; see counselor for limitations

MUSIC 91	2.0 units
Special Studies	
18 hours lecture, 54 hours laboratory	
Recommended Preparation: Prior vocal or	r instrumental
experience	
Grading: letter grade or pass/no pass	

Formerly MUSIC 91AD. This course entails the directed study of special topics in music theory, composition, musicology, performance practice, organization and administration of instrumental or vocal ensembles, or commercial music activities. The purpose is to further

explore in-depth application of skills and concepts used for transfer (such as audition or proficiency exams) or placement in an internship or job. Transferable to CSU

MUSIC 92AD (C-ID MUS 160) 0.5 unit **Applied Vocal & Instrumental Music** 36 hours laboratory

Prerequisite: Performance audition before the program facultv

Corequisite: MUSIC 11AD or 14AD or 46 and MUSIC 6 or 1A or 1B or 2A and MUSIC 5 or 9 or 10 or 16 Grading: letter grade

This course is designed for music majors planning to transfer to a university music program. It includes individual and master class 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.

Transferable to UC or CSU; see counselor for limitations

MUSIC 96 2.5 units Advanced Recording Techniques 36 hours lecture, 36 hours laboratory Grading: letter grade or pass/no pass

Formerly MUSIC 96AD. 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. Transferable to CSU

NUTRITION & DIETETICS (NUTR)

NUTR 20 (C-ID NUTR 110) 3.0 units Nutrition and Life 54 hours lecture Grading: letter grade or pass/no pass

Formerly F N 20. This course is an introduction to the basic physiological, psychological, social and biochemical principles related to human nutrition. Transferable to UC or CSU; see counselor for limitations

NUTR 21 (C-ID NUTR 120) **Food Selection and Meal Preparation** 54 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

4.0 units

3.0 units

Formerly F_N 21. 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. Transferable to CSU

NUTR 24 Sanitation, Safety and Equipment 54 hours lecture Grading: letter grade or pass/no pass

Formerly NUTR 224 and F_N 224. 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. Students will be prepared to take the ServSafe Food Protection Management Certification Examination upon completion of the course. This certificate is required for those working in the food service and healthcare industries and meets the California State Health Code. Transferable to CSU

NUTR 25 3.0 units Intro to Food Service/Work Organizations 54 hours lecture Grading: letter grade or pass/no pass

Formerly NUTR 225 and F N 225. 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. Transferable to CSU

NUTR 26 1.0 unit **Nutrition for the Active Person** 18 hours lecture Grading: letter grade or pass/no pass

Formerly F N 26. 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. Transferable to CSU

NUTR 28 3.0 units **Food Production Management** 54 hours lecture

Grading: letter grade or pass/no pass

Formerly NUTR 228 and F N 228. 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 participate in 3 additional hours at the Multidisciplinary Success Center in a review of basic math concepts required for the course. Transferable to CSU

3.0 units

NUTR 31 **Menu Planning and Food Purchasing** 54 hours lecture Grading: letter grade

Formerly NUTR 231 and F_N 231. 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. Transferable to CSU

NUTR 32 3.0 units **Therapeutic Diets** 54 hours lecture **Recommended Preparation: NUTR 20** Grading: letter grade

Formerly NUTR 232 and F_N 232. This course presents the principles of and indication for therapeutic diets in the treatment of diseases and disorders. Course content applies to dietetics programs in hospitals, convalescent and extended care facilities. Transferable to CSU

NUTR 34 3.0 units **Advanced Nutrition Care** 54 hours lecture Prerequisite: NUTR 32 Grading: letter grade or pass/no pass

Formerly NUTR 234 and F_N 234. 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 will be covered in this course. Transferable to CSU

NUTR 35

Advanced Medical Nutrition Therapy 54 hours lecture Prerequisite: NUTR 32 Grading: letter grade

3.0 units

Formerly NUTR 235 and F N 235. 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. Transferable to CSU

NUTR 227

3.0 units

2.5 units

Supervision and Training Techniques 54 hours lecture Grading: letter grade or pass/no pass

Formerly F N 227. 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.

NUTR 230A Clinical Field Experience I 18 hours lecture, 90 hours laboratory Grading: pass/no pass

Formerly F_N 230A, F_N 230AC and F_N 230. 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.

NUTR 230B 2.5 units **Clinical Field Experience I** 18 hours lecture, 90 hours laboratory **Recommended Preparation: NUTR 230A** Grading: pass/no pass

Formerly F_N 230B and F_N 230AC. This course provides supervised clinical field experience in health care facilities for dietetic service supervisor and nutrition

2.0 units

assistant program students. Students learn and practice the skills necessary to coordinate a health care food service facility.

NUTR 2331.0 unitSpecial Topics in Health Care Dietetics18 hours lecture

Grading: letter grade or pass/no pass

Formerly F_N 233. 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.

NUTR 236 1.0 unit Dietetic Professional Development Seminar 18 hours lecture

Grading: letter grade or pass/no pass

Formerly F_N 236. This course serves as an introduction to the development of professionalism and a team concept in the nutrition and 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 the code of ethics for the profession of nutrition and dietetics.

NUTR 240A	3.0 units
Clinical Field Experience II	
180 hours laboratory	
Recommended Preparation: NUTR 230B	
Grading: pass/no pass	

Formerly F_N 240A, F_N 240AC and F_N 240. 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.

NUTR 240B3.0 unitsClinical Field Experience II180 hours laboratoryRecommended Preparation: NUTR 240AGrading: pass/no pass

Formerly F_N 240B and F_N 240AC. 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.

NUTR 250 Nutrition in Healthy Cooking 36 hours lecture Grading: letter grade or pass/no pass

Formerly F_N 250. This course provides a practical approach to the application of sound nutritional practices in the food service setting. Nutrition and Dietetics students, Culinary arts students and professionals will be able to incorporate healthful nutrition 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.

NUTR 2511.5 unitsCake Decorating Techniques18 hours lecture, 36 hours laboratoryGrading: letter grade or pass/no pass

Formerly F_N 252A and F_N 252AD. Topics in this course include cake decorating techniques, recipes, tools and skill development. A variety of icings, designs, and shaping techniques will be covered. This course is an elective for the Dietetic's program certificates.

NUTR 2521.5 unitsCake Decorating for Special Occasions18 hours lecture, 36 hours laboratoryGrading: letter grade

Formerly F_N 252B. Topics in this course covers cake decorating techniques for special occasions. Included will be creating cakes with special effects, candy molds, novelties, international styles, delivery, set up techniques and business practices.

NUTR 253	1.0 unit
ServSafe Certification	
18 hours lecture	
Grading: letter grade or pass/no pass	

Formerly F_N 253. 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 be prepared to take the ServSafe Food Protection Manager Certification Examination at the conclusion of the course. This Certificate required for

those working in a food service and healthcare industries and meets the California State Health Code.

1.0 unit

NUTR 254 Nutrition for Adults and Aging 18 hours lecture

Grading: letter grade or pass/no pass

Formerly F_N 255C. 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.

NUTR 2551.0 unitVegetarian Lifestyle18 hours lectureGrading: letter grade or pass/no pass

Formerly F_N 225D. 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.

NUTR 256	2.0 units
Weight Control & Energy Balance	
36 hours lecture	
Grading: letter grade or pass/no pass	

Formerly F_N 256. 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.

NUTR 2601.0 unitCultural Foods18 hours lecture, 18 hours laboratoryGrading: letter grade or pass/no pass

Formerly F_N 260 and F_N 260AD. 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. This course is an elective for the Dietetic's program certificates.

1.0 unit

NUTR 261 Cooking for Wellness 18 hours lecture, 18 hours laboratory Grading: letter grade or pass/no pass Formerly F_N 261 and F_N 261AD. 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. This course is an elective for the Dietetic's program certificates.

NUTR 2621.0 unitCooking for Singles18 hours lecture, 18 hours laboratoryGrading: letter grade or pass/no pass

Formerly F_N 262 and F_N 262AD. 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.

NUTR 601	0.0 unit
CDM Board Exam Preparation 1	
18 hours lecture	
Grading: LBCC non-graded course	

The NUTR 601 provides students with information, resources, and insights to facilitate their preparation for the national credentialing examination for dietary managers in health care institutions. The CDM Board Exam is based on the five competency areas included Nutrition, Foodservice Management, Personnel and Communications, Sanitation and Food Safety, and Business Operations. The NUTR 601 course is designed based on two of the competency areas including in the Certified Dietary Manager (CDM) Board Exam. The NUTR 601 course will cover the Nutrition component and Foodservice Management component of the CDM Board Exam.

NUTR 602	0.0 unit
CDM Board Exam Preparation 2	
18 hours lecture	
Grading: LBCC non-graded course	

The NUTR 602 provides students with information, resources, and insights to facilitate their preparation for the national credentialing examination for Certified Dietary Managers (CDM) in health care institutions. The CDM Board exam topics cover the five competency areas including, Nutrition, Foodservice Management, Personnel, and Communications, Sanitation, and Food Safety and Business Operations. The NUTR 602 course is designed based on three of the competency areas. The NUTR 602 course will cover Personnel and

Communications, Sanitation and Food Safety, and Business Operations component of the CDM Board Exam.

2.0 units

3.0 units

OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA)

OSHA 254 OSHA Standards for General Industry 36 hours lecture Grading: pass/no pass

Formerly ELECT 254. This course covers OSHA (Occupational Safety and Health Administration) policies, procedures, and standards, as well as industrial safety and health principles. Topics include scope and application of the OSHA General Industry safety 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 General Industry Safety Outreach Training Completion Card.

GEOGRAPHY, PHYSICAL (PGEOG)

PGEOG 1 (C-ID GEOG 110) Physical Geography 54 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. Transferable to UC or CSU; see counselor for limitations

PGEOG 1L (C-ID GEOG 111)1.5 unitsPhysical Geography Lab18 hours lecture, 36 hours laboratoryCorequisite: PGEOG 1Grading: letter grade or pass/no pass

Physical Geography Laboratory emphasizes the practical application of concepts presented in PGEOG1 Physical Geography. Physical Geography Lab introduces the student to the tools and methods used in Physical Geography and related disciplines. Emphasis is given to Earth-sun relationships, atmosphere-hydrosphere interactions, lithospheric processes and materials, integration of climate, soils and biome spatial patterns, map interpretation, and geographic grid systems. Transferable to UC or CSU; see counselor for limitations

PGEOG 2 (C-ID GEOG 130)3.0 unitsWeather and Climate54 hours lectureGrading: letter grade or pass/no pass

This course examines the physical properties of the atmosphere, radiation heating and cooling, precipitation, clouds, weather disturbances, air pollution, global climate patterns 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. Transferable to UC or CSU; see counselor for limitations

PHILOSOPHY (PHIL)

PHIL 1 (C-ID SJS 130) Philosophy of LGBTQIA+ Studies 54 hours lecture Grading: letter grade or pass/no pass 3.0 units

This introductory course examines a broad range of contemporary gay, lesbian, bisexual, transgender, and queer issues in various contexts including bio-medical (ethics), sociological, philosophical (ontology, metaphysics, epistemology), political (political philosophy), racial and sexual (feminist philosophy). Transferable to UC or CSU; see counselor for limitations

PHIL 33.0 unitsIntro to Issues/Phil, Psych & Religion54 hours lectureGrading: letter grade or pass/no pass

The course compares and integrates insights from three interrelated disciplines—philosophy, psychology, and religion that correspond to the intellectual, emotional, and spiritual dimensions of human existence. Students learn the four basic foundations of knowledge: reason, authority, the senses, and experience that are used by each of the three disciplines in their search for truth. Following this framework, the course surveys a wide variety of theories and beliefs and offers a critical analysis comparing their similarities and differences. Students explore, discuss, and evaluate the basic positions of most of the world's great philosophers, psychologists, and theologians from Socrates and Descartes to Sartre, from Freud and Skinner to Maslow, and from Buddha and Jesus to Buber.

Transferable to UC or CSU; see counselor for limitations

PHIL 4 (C-ID PHIL 130) 3.0 units History of Ancient Philosophy 54 hours lecture

Recommended Preparation: ENGL 105 or ESL 34X and PHIL 6

Grading: letter grade

This course addresses ancient western philosophy with emphasis on the development of Greek philosophy from the Pre-Socratics through Aristotle and may also include Stoic, Hellenistic, Roman, medieval or non-western thinkers. An emphasis will be placed on reading ancient primary texts critically.

Transferable to UC or CSU; see counselor for limitations

PHIL 5 (C-ID PHIL 140)3.0 unitsHistory of Modern Philosophy54 hours lectureRecommended Preparation: ENGL 105 or ESL 34X andPHIL 6Grading: letter grade

This course surveys 16th through 18th century European philosophical perspectives with an emphasis on the metaphysical, and epistemological developments of the period. Emphasis will also be placed on critically reading the primary texts from this period.

Transferable to UC or CSU; see counselor for limitations

PHIL 6 (C-ID PHIL 100)3.0 unitsIntroduction to Philosophy54 hours lectureGrading: letter grade or pass/no pass

A general introduction to some of the fundamental questions, texts, and methods of philosophy. Topics may include the nature of reality, the existence of God, free will, morality, race and gender, personal identity, social justice, knowledge and skepticism.

Transferable to UC or CSU; see counselor for limitations

PHIL 6H (C-ID PHIL 100) 3.0 units Honors Introduction to Philosophy 54 hours lecture

Prerequisite: Qualification for the Honors Program Grading: letter grade or pass/no pass

A general introduction to some of the fundamental questions, texts, and methods of philosophy. Topics may

include the nature of reality, the existence of God, free will, morality, race and gender, personal identity, social justice, knowledge and skepticism.

Transferable to UC or CSU; see counselor for limitations

PHIL 7 (C-ID PHIL 120)3.0 unitsIntroduction to Ethics54 hours lectureGrading: letter grade or pass/no pass

This course examines moral theories and the application of moral theories, arguments, and principles to contemporary moral issues. Topics covered include: Can moral claims be objectively true? How do major moral theories attempt to provide an objective basis for morality? How should we resolve contemporary moral issues such as (but not limited to) abortion, animal rights, censorship, economic justice, global warming, immigration, mass incarceration, racism, and terrorism? Transferable to UC or CSU; see counselor for limitations

PHIL 7H (C-ID PHIL 120) Honors Introduction to Ethics 54 hours lecture

3.0 units

Prerequisite: Qualification for the Honors Program Grading: letter grade or pass/no pass

This course examines moral theories and the application of moral theories, arguments, and principles to contemporary moral issues. Topics covered include: Can moral claims be objectively true? How do major moral theories attempt to provide an objective basis for morality? How should we resolve contemporary moral issues such as (but not limited to) abortion, animal rights, censorship, economic justice, global warming, immigration, mass incarceration, racism, and terrorism? Transferable to UC or CSU; see counselor for limitations

PHIL 8

3.0 units

Introduction to Non-Western Philosophy 54 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. Transferable to UC or CSU; see counselor for limitations

3.0 units

3.0 units

3.0 units

PHIL 9	3.0 units
Introduction to Existentialism	
54 hours lecture	
Grading: letter grade or pass/no pass	

This course will examine the philosophical thought of existentialist writers such as Kierkegaard, Nietzsche, Sartre, Husserl, Tillich, Heidegger, Camus, and Dostoevsky. Emphasis will be placed on the analysis of recurring themes such as freedom, individuality, meaning and value, and the existence of God. Transferable to UC or CSU; see counselor for limitations

PHIL 10 (C-ID SJS 120)3.0 unitsIntroduction to Feminist Philosophy54 hours lecture

Grading: letter grade or pass/no pass

This course will examine feminist thought on philosophical issues in metaphysics, epistemology, and axiology. This exploration will examine both feminist theory and practice. Transferable to UC or CSU; see counselor for limitations

PHIL 113.0 unitsCritical Thinking54 hours lectureGrading: letter grade or pass/no pass

This class focuses on the improvement of practical reasoning skills. Students 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, marketing and advertising, and the news media. Students will also learn the difference between deductive and inductive reasoning, and will learn some basic deductive argument forms. Transferable to UC or CSU; see counselor for limitations

PHIL 12 (C-ID PHIL 110)	3.0 units
Introduction to Logic	
54 hours lecture	
Grading: letter grade or pass/no pass	

Introduction to logic introduces some principles of valid reasoning with an emphasis on deductive logic. Ordinary language will be translated into sentential logic, and syntax versus semantics will be discussed. Methods of determining validity will be explored including truth tables and the proof method in sentential logic. Transferable to UC or CSU; see counselor for limitations PHIL 14Philosophy of Religion54 hours lectureGrading: 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 the nature of God/Ultimate Reality? Why is there evil? Can conflicting religions still be true? The course will focus on understanding and critically analyzing the claims of the world's religions.

Transferable to UC or CSU; see counselor for limitations

PHIL 15
Introduction to Political Philosophy
54 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. Transferable to UC or CSU; see counselor for limitations

PHIL 16 Introduction to Business Ethics 54 hours lecture Grading: letter grade or pass/no pass

This course will examine ethical issues in business using an interdisciplinary approach or team teaching drawn from Philosophy and Management. 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.

Transferable to UC or CSU; see counselor for limitations

PHIL 22 (C-ID PHIL 210)	3.0 units
Symbolic Logic	
54 hours lecture	
Grading: letter grade	

This course is an introduction to the formal techniques of evaluating arguments. These formal techniques include propositional logic, truth trees, natural deduction, and quantificational logic.

Transferable to UC or CSU; see counselor for limitations

4.0 units

PHOTOGRAPHY (PHOT)

PHOT 1The Photographic Vision36 hours lectureGrading: 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.

Transferable to CSU

PHOT 10 History of Photography 54 hours lecture

Recommended Preparation: Qualification through the English assessment process at the ENGL 1 level or completion of ENGL 105 or ESL 34X 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.

Transferable to UC or CSU; see counselor for limitations

PHOT 31

4.0 units

2.0 units

3.0 units

Intro to B&W Photography Darkroom 36 hours lecture, 108 hours laboratory Grading: letter grade or pass/no pass

This course is an introduction to the use of traditional film and darkroom photographic practice. Through the development of critical thinking and technical skills, students will learn how to visualize, create, and evaluate photographic images. Techniques covered will include all aspects of camera functions from depth of field to shutter speed, film exposure, film development, and black and white printing; alternative darkroom techniques; and introduction to digital resources; darkroom safety, and final presentation options. Through critical readings, class discussions, presentations of artists' work, films, gallery visits, and critiques, students will learn how to evaluate, interpret, and critique photographs and ideas. Transferable to CSU

PHOT 32

Introduction to Digital Photography 36 hours lecture, 108 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 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. Transferable to CSU

PHOT 33

4.0 units

Photography Studio Lighting 36 hours lecture, 108 hours laboratory Prerequisite: PHOT 31 or PHOT 32 or ART 81 Grading: letter grade or pass/no pass

This is a comprehensive course in studio photography with major emphasis on high quality capture, studio composition and lighting techniques. Students will work with a wide range of types of artificial lights, learn advanced digital editing and output methods. It is part of the general fine arts curriculum and is a requirement for the Digital Media: Advanced Production certificate. Transferable to CSU

PHOT 34

4.0 units

Advanced Photography and Digital Media 36 hours lecture, 108 hours laboratory Prerequisite: PHOT 33 Grading: letter grade or pass/no pass

This is a comprehensive portfolio development course for the advanced student of photography. The major emphasis is centered around continuing to build complex problem solving in photography for professional uses. Technical aspects will include: digital, alternative and traditional photographic materials, lighting in-studio and on location, animation through motion graphics, and development of complex visual styles. Transferable to CSU

PHOT 35 3.0 units **Photography for Publication** 36 hours lecture, 72 hours laboratory Prerequisite: PHOT 32 or ART 81 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. Transferable to CSU

PHOT 37 4.0 units Portrait Photography 36 hours lecture, 108 hours laboratory Prerequisite: PHOT 31 or PHOT 32 or ART 81 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.

3.0 units

Transferable to CSU

PHOT 38 Marketing Professional Photo Skills 54 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. Transferable to CSU

PHOT 39 3.0 units **Photography on Location** 36 hours lecture, 72 hours laboratory Prerequisite: PHOT 31 or PHOT 32 or ART 81

Grading: letter grade or pass/no pass

This is a comprehensive occupational course in location photography. The subjects covered will include: people, documentary, landscape, environmental and product photography for annual reports, client-direct markets, stock photography, public relations, advertising and editorial publications. Transferable to CSU

PHOT 40 3.0 units **Mastering the Photographic Print** 36 hours lecture, 72 hours laboratory Prerequisite: One semester of ART 81 or PHOT 31 **Recommended Preparation: PHOT 43** 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 digital photographic output which would include prints, portfolios and books. Students will practice digital methods of capture, processing and printing. Transferable to CSU

4.0 units

PHOT 41 **Professional Photographic Portfolio** 36 hours lecture, 108 hours laboratory Prerequisite: PHOT 31 or PHOT 32 or ART 81 **Recommended Preparation: PHOT 33** Grading: letter grade or pass/no pass

This course presents students with the opportunity to develop professional portfolio and portfolio presentation of work through an intense schedule of lectures, critiques, class discussions, museum and gallery visits all centering on current issues in photography. This course will also consider professional written materials: resume, exhibition proposals, cover letter, artist's statements. The goal of this course is to help prepare student not only in the presentation of their portfolio, but also for life after college by the experience of preparing their show in a professional exhibition, job application, and photography business. Transferable to CSU

PHOT 42 Experimental Photography Laboratory 36 hours lecture, 108 hours laboratory Grading: letter grade or pass/no pass

4.0 units

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

Transferable to CSU

PHOT 43

3.0 units

1.0 unit

Photoshop and Digital Image Management 36 hours lecture, 72 hours laboratory Recommended Preparation: PHOT 32 or ART 81 Grading: letter grade or pass/no pass

This is a comprehensive digital photography course for students who already have basic camera skills and want to learn how to archive, edit and manipulate their imagery. This course is 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, image editing and the basics of image-bank management. Transferable to CSU

PHOT 281	1.0 unit
Photography Laboratory	
54 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 291Advanced Photography Laboratory54 hours laboratoryGrading: letter grade or pass/no pass

The course is for advanced students enrolled in the photography program or students who have an extensive background in photography and wish to improve their skills through use of the lab. The course emphasizes practical applications in digital and traditional photographic techniques.

PHOT 681 0.0 unit Fundamentals of Photography Laboratory 108 hours laboratory Crading: LBCC pop graded course

Grading: LBCC non-graded course

LONG BEACH CITY COLLEGE

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.

PHYSICS (PHYS)

PHYS2A (C-ID PHYS 105)4.5 unitsGeneral Physics72 hours lecture, 36 hours laboratoryPrerequisite: MATH 40Grading: 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. Transferable to UC or CSU; see counselor for limitations

PHYS 2B (C-ID PHYS 110)4.5 unitsGeneral Physics72 hours lecture, 36 hours laboratoryPrerequisite: PHYS 2AGrading: 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. Transferable to UC or CSU; see counselor for limitations

PHYS 3A (C-ID PHYS 205)5.5 unitsPhysics for Sci. & Eng. - Mechanics90 hours lecture, 36 hours laboratoryPrerequisite: MATH 60Recommended Preparation: PHYS 2AGrading: 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, forces, energy, translational and rotational motion, momentum, static fluids, simple harmonic oscillations and mechanical waves.

Transferable to UC or CSU; see counselor for limitations

PHYS 3B (C-ID PHYS 210) Physics for Sci. & Eng. - E & M 72 hours lecture, 36 hours laboratory Prerequisite: PHYS 3A 4.5 units

Corequisite: MATH 70 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. Transferable to UC or CSU; see counselor for limitations

PHYS 3C (C-ID PHYS 215)4.5 unitsPhysics for Sci. & Eng. - Modern Physics72 hours lecture, 36 hours laboratoryPrerequisite: PHYS 3ACorequisite: MATH 70Grading: 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. PHYS 3C includes thermodynamics, electromagnetic waves, ray optics, wave optics, special relativity, basic quantum theory, wave mechanics, properties of atoms, nuclear structure and nuclear reactions.

Transferable to UC or CSU; see counselor for limitations

PHYS 4 (C-ID PHYS 140)4.0 unitsSurvey of Chemistry and Physics54 hours lecture, 54 hours laboratoryPrerequisite: MATH 110 or MATH 110A and MATH 110Bor higher level math classGrading: letter grade

This is a one semester, inquiry-based physical science course suitable for satisfying the general education requirements of non-science majors and especially of students who aspire to become elementary school teachers. Students construct a meaningful understanding of physics and chemistry concepts through lecture and laboratory activities. The course covers: matter, physical and chemical properties, energy, motion, light, atomic structure, bonding, solutions and chemical reactions. The inter-dependence of chemistry and physics, their applications in everyday life, and the power and limitations of scientific inquiry will be emphasized. Not open to students who already have credit in CHEM 4. Transferable to UC or CSU; see counselor for limitations

PHYSIOLOGY (PHYSI)

PHYSI 1	(C-ID BIOL 120B)	5.0 units
Human Phys	iology	
72 hours lect	ture, 54 hours laboratory	,
Prerequisite:	ANAT 1 or ANAT 41 or B	IO 60
Recommended Preparation: CHEM 2 or one year of high		
school chem	istry	
Grading: lett	er 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 prenursing, 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.

Transferable to UC or CSU; see counselor for limitations

POLITICAL SCIENCE (POLSC)

POLSC 1 (C-ID POLS 110) Introduction to Government 54 hours lecture Grading: letter grade 3.0 units

This course is an introduction to the principles and issues of government and the political process in a diverse society, emphasizing the government of the United States, as well as California state and local governments. Transferable to UC or CSU; see counselor for limitations

POLSC 1H (C-ID POLS 110) Honors Introduction to Government 54 hours lecture

3.0 units

Prerequisite: Qualification for the Honors Program 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 government of the United States, as well as California state and local governments. Transferable to UC or CSU; see counselor for limitations

POLSC 2 (C-ID POLS 130) Comparative Government 54 hours lecture Grading: letter grade or pass/no pass 3.0 units

3.0 units

This course introduces students to analytical methods used to compare political systems and governments. It examines the politics of selected states from among industrial and post-industrial democracies, developing countries, and communist and post-communist systems. Issues given particular attention include democratization, economic development, ideologies, political culture, trans-state organizations, globalization, and political change.

Transferable to UC or CSU; see counselor for limitations

3.0 units

POLSC 2H (C-ID POLS 130) Honors Comparative Government 54 hours lecture

Prerequisite: Qualification for the Honors Program Recommended Preparation: ENGL 1 Grading: letter grade

This course introduces students to analytical methods used to compare political systems and governments. It examines the politics of selected states from among industrial and post-industrial democracies, developing countries, and communist and post-communist systems. Issues given particular attention include democratization, economic development, ideologies, political culture, trans-state organizations, globalization, and political change.

Transferable to UC or CSU; see counselor for limitations

POLSC 33.0 unitsIssues of American Government54 hours lectureGrading: 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.

Transferable to UC or CSU; see counselor for limitations

POLSC 4 (C-ID POLS 140)3.0 unitsWorld Politics54 hours lectureGrading: letter grade or pass/no pass

An introduction to international relations theory with an examination of national, international, transnational, and sub-national actors and their institutions, interactions and processes as they relate to global issues. This class satisfies one lower division social science requirement for majors in political science, history, sociology, humanities, physical sciences and life sciences at UCLA. Transferable to UC or CSU; see counselor for limitations

POLSC 4H (C-ID POLS 140)3.0 unitsHonors World Politics54 hours lecturePrerequisite: Qualification for the Honors Program

Prerequisite: Qualification for the Honors Program Grading: letter grade or pass/no pass

This course is an introduction to recent and contemporary international relations, foreign policymaking 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.

Transferable to UC or CSU; see counselor for limitations

POLSC 9 The Constitution, Law and Society 54 hours lecture Grading: letter grade or pass/no pass

This course is a general survey of the United States Constitution and the United States legal system. Included is the study of the origins, judicial interpretations, and societal effects of the Constitution. The course emphasizes the legal system with specific focus on the role of the United States Supreme Court in issuing decisions of a societally relevant and interdisciplinary nature. The controversial role of law in political and social issues is examined with regard to all areas of United States Supreme Court jurisdiction. Law is analyzed as an integral part of the political process and its effects on society.

Transferable to UC or CSU; see counselor for limitations

POLSC 10 (C-ID POLS 150)3.0 unitsIntroduction to Political Science54 hours lectureGrading: 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.

Transferable to UC or CSU; see counselor for limitations

POLSC 11 (C-ID POLS 120) Introduction to Political Theory 54 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. Transferable to UC or CSU; see counselor for limitations

POLSC 48M11.0 unitCalifornia State/Local Government18 hours lectureGrading: 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. This course is available during both the Fall and Spring Semesters. Transferable to CSU

PSYCHOLOGY (PSYCH)

PSYCH 1 (C-ID PSY 110) Introduction to Psychology 54 hours lecture Recommended Preparation: E 3.0 units

3.0 units

Recommended Preparation: ENGL 1 or ENGL 1H Grading: letter grade or pass/no pass

This course is an introduction to the scientific study of behavior and mental processes. It will cover critical thinking and the scientific method, biopsychology, sensation and perception, consciousness and thinking, lifespan development, learning and memory, emotion and stress, psychological disorders and therapy, personality, and social psychology.

Transferable to UC or CSU; see counselor for limitations

PSYCH 1H (C-ID PSY 110) Honors Introduction to Psychology 54 hours lecture

Prerequisite: Qualification for the Honors Program Recommended Preparation: ENGL 1 or ENGL 1H Grading: letter grade or pass/no pass

This course is an introduction to the scientific study of behavior and mental processes. It will cover critical thinking and the scientific method, biopsychology, sensation and perception, consciousness and thinking, lifespan development, learning and memory, emotion and stress, psychological disorders and therapy, personality, and social psychology. Transferable to UC or CSU; see counselor for limitations

PSYCH 2 (C-ID PSY 205B)4.0 unitsResearch Methods for Psychology54 hours lecture, 54 hours laboratoryPrerequisite:PSYCH 1 and STAT 1 or STAT 1H or MATH21B

Grading: letter grade or pass/no pass

The course provides a basic understanding of the scientific method, research designs, and statistical tests 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.

Transferable to UC or CSU; see counselor for limitations

PSYCH 4 Psychology of Adjustment 54 hours lecture Grading: letter grade or pass/no pass

This course will focus on the application of psychological principles to everyday life, emphasizing how to cope with life's challenges and demands. It will take a broad approach to understanding how clinicians, scientists, and practitioners study and apply psychology. We will consider many different topics including stress, work, family, friends, the self, disorders, and therapy. Transferable to CSU

PSYCH 6 (C-ID PSY 150)	3.0 units
Physiological Foundations of Psychology	
54 hours lecture	
Prerequisite: PSYCH 1	
Grading: letter grade	

This course is an introduction to physiological aspects of human behavior including the central and peripheral

3.0 units

3.0 units

nervous system and the endocrine system. It explores the physiological basis for cognition, consciousness, movement, 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. Transferable to UC or CSU; see counselor for limitations

3.0 units

3.0 units

PSYCH 10 Human Sexuality 54 hours lecture Grading: letter grade or pass/no pass

This course provides a comprehensive overview to human sexuality from multiple perspectives including psychological, sociological, cultural, biological, and historical perspectives. Students will examine knowledge, sexual attitudes, values and behaviors within the context of society and their own personal lives. Individual value systems, sexual development and interpersonal relationships will be evaluated. Current sexual norms and various aspects of interpersonal and individual sexual adjustment will be explored. This course is not open for credit to students registered in or with credit in HLED 10. Transferable to UC or CSU; see counselor for limitations

PSYCH 11 (C-ID PSY 170)3.0 unitsSocial Psychology54 hours lectureGrading: 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. A variety of topics will be addressed, including attitudes, persuasion, stereotypes, group processes, conformity and interpersonal attraction.

Transferable to UC or CSU; see counselor for limitations

PSYCH 14 Abnormal Psychology 54 hours lecture Recommended Preparation: PSYCH 1 Grading: letter grade or pass/no pass

This class surveys abnormal behaviors, including anxiety disorders, trauma and stressor related disorders, depressive and bipolar related disorders, schizophrenia spectrum and other psychotic disorders, substancerelated and addictive disorders, gender dysphoria and sexual dysfunctions, feeding and eating disorders, sleep disorders, neurodevelopmental disorders and disorders that begin in childhood, neurocognitive disorders and disorders related to aging, personality disorders, ways of determining abnormality, causes and treatment of disorders.

Transferable to UC or CSU; see counselor for limitations

PSYCH 33 Psychology of Personality 54 hours lecture Grading: letter grade or pass/no pass

This course focuses on historical and contemporary approaches to assessing and understanding personality similarities and differences among people. How the scientific method is used to study personality will be discussed. Social and cultural influences on personality development will be considered. The extent to which personality factors predict the behaviors, feelings, and thoughts of individuals will be examined.

Transferable to UC or CSU; see counselor for limitations

PUBLIC ADMINISTRATION (PUBAD)

PUBAD 1Introduction to Public Administration54 hours lectureGrading: 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. Transferable to CSU

READING (READ)

READ 82 Proficient Reading 72 hours lecture 4.0 units

3.0 units

Prerequisite: Completion of READ 883 or READ 883AX or qualification through LBCC placement process for reading 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. Students are required to complete 3 hours of Supplemental Learning Assistance activities in designated Success Centers. Transferable to CSU

READ 83 Power Reading

4.0 units

3.0 units

72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for reading or successful completion (PASS) of READ 883 or ESL 863 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. Students are required to complete 3 hours of Supplemental Learning Assistance activities in designated Success Centers. Transferable to CSU

READ 84 Analytical Reading 54 hours lecture Prerequisite: ENGL 1 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 claim 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.

Transferable to UC or CSU; see counselor for limitations

READ 853.0 unitsVocabulary Building54 hours lectureGrading: 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. Transferable to CSU 4.0 units

READ 182AX Accelerated Proficient Reading 72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for reading or successful completion (PASS) of READ 883AX, READ 883, READ 882, ESL 863 or ESL 862 Grading: letter grade

This course provides instruction in the advanced academic reading strategies necessary to comprehend and evaluate complex college level literary and informational texts independently and proficiently in a highly intensive, accelerated format. Students are required to complete 2 hours of Supplemental Learning Assistance activities in designated Success Centers.

READ 602 Reading for Health Career Sciences 27 hours lecture Grading: LBCC non-graded course

This course provides literacy instruction in preparation for prerequisite courses such as Human Anatomy, Physiology, and Microbiology, and prepares students to use reading skills within their careers.

READ 680 Reading Foundations 36 hours lecture Grading: LBCC non-graded course 0.0 unit

0.0 unit

This course focuses on fundamental reading skills and strategies with an emphasis on reading, writing, listening, and speaking. Students will be able to comprehend and respond to text with scaffolding as needed.

READ 6810.0 unitReading Essentials54 hours lectureRecommended Preparation: Qualification through LBCC

assessment process for reading OR Read 680: Reading Essentials Grading: LBCC non-graded course

This course focuses on essential literacy skills and strategies with an emphasis on comprehending and analyzing texts. Students will be able to comprehend and respond to text through writing with instructor's scaffolding as needed.

READ 881	3.0 units
Reading Essentials	
54 hours lecture	
Recommended Preparation: Qualification	n through LBCC
assessment process for reading OR Read	680: Reading
Essentials	
Grading: pass/no pass	

This course focuses on essential literacy skills and strategies with an emphasis on comprehending and analyzing texts. Students will be able to comprehend and respond to text through writing with instructor's scaffolding as needed.

READ 882	4.0 units
Reading Development	
72 hours lecture	
Grading: pass/no pass	

This course develops essential reading concepts and strategies to comprehend and analyze literary and informational texts independently and proficiently.

READ8834.0 unitsReading Improvement72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for reading or successful completion (PASS) of READ 882 or ESL 862 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.

READ 883AX

4.0 units

Accelerated Reading Improvement 72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for reading or successful completion (PASS) of READ 881 or BAE 601B or ESL 861 Grading: pass/no pass

This course develops foundational reading concepts and strategies to comprehend and analyze complex literary and informational texts independently and proficiently with scaffolding as needed through a highly intensive, accelerated format. Students are required to complete 3 hours of Supplemental Learning Assistance activities in designated Success Centers.

REAL ESTATE (REAL)

REAL 78 Real Estate Economics 54 hours lecture Grading: letter grade 3.0 units

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. Transferable to CSU

REAL 80 Real Estate Principles 54 hours lecture Grading: letter grade

3.0 units

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. Transferable to CSU

REAL 81 Real Estate Practice 54 hours lecture Grading: letter grade

3.0 units

Formerly REAL 81A. 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 those seeking a Real Estate Salesperson license or a Real Estate Broker license. Transferable to CSU

REAL843.0 unitsMortgage Brokering/Lending in California54 hours lectureRecommended Preparation: REAL 80Grading: 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. Transferable to CSU

REAL 85	3.0 units
Real Estate Appraisal	
54 hours lecture	
Grading: letter grade	

This course covers principles and procedures of singlefamily, residential appraisal and report-writing. Successful completion is required for a California Real Estate Broker's license, satisfies up to 54 hours of the 150 hours required for a California Trainee or Residential Appraisal license, and can be used as an elective for a California Real Estate Salesperson's license. The course also provides 51 hours of continuing education credit for the California Appraisal license renewal. Transferable to CSU

REAL863.0 unitsAdvanced Real Estate Appraisal54 hours lecture, 18 hours laboratoryRecommended Preparation: REAL 80 and REAL 85Grading: letter grade

This course covers residential market analysis, highest and best use, site valuation, cost/sales comparison, income approaches to valuation, and appraisal reportwriting for residential properties. It is part of the education requirement for the California OREA Trainee and Residential license and can be used as an elective for the California Real Estate Broker's license. Transferable to CSU

REAL 873.0 unitsReal Estate Finance54 hours lectureGrading: 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. Transferable to CSU

REAL 92 Escrows and Land Titles 54 hours lecture Grading: letter grade 3.0 units

Formerly REAL 92A. 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. Transferable to CSU

REAL 253 Property Management 54 hours lecture Grading: letter grade 3.0 units

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.

RADIO AND TELEVISION (R_TV)

R_TV 1 (C-ID FTVE 100) Introduction to Broadcasting 54 hours lecture Grading: letter grade 3.0 units

Introduction to Broadcasting explores the evolution of the mass media and its impact on society focusing on the technological changes in broadcast and digital media. The course analyzes methods used by the media to persuade consumers and evaluates these tactics so that students become educated viewers of media content. Transferable to CSU

3.0 units

R_TV 2	2.0 units
Intro to Careers in Radio & Television	
36 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 gualifications necessary for employment in this element of the entertainment industry. Guest speakers will discuss current industry issues and standards.

Transferable to CSU

R_TV 4 (C-ID FTVE 110*) 3.0 units Writing and Production Planning 54 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. Transferable to CSU

R TV 8 3.0 units Introduction to Media Production 36 hours lecture, 54 hours 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. Transferable to CSU

2.5 units

R TV 12 **Television Lighting** 36 hours lecture, 36 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. Transferable to CSU

R_TV 13 (C-ID FTVE 135) Television Production 36 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

Formerly R_TV 13AD. 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. Transferable to CSU

R_TV 14 (C-ID FTVE 130*)	3.0 units
Electronic Field Production	
36 hours lecture, 54 hours laboratory	
Grading: letter grade or pass/no pass	

Formerly R TV 14AD. 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. Transferable to CSU

R TV 15 **Sports Production** 36 hours lecture, 54 hours laboratory **Recommended Preparation: Audition** Grading: letter grade

Formerly R_TV 15AC. This course involves Live Multiple Camera Remote TV Production of LBCC Sports and Special Events Programs. Transferable to CSU

R_TV 21 (C-ID FTVE 125)

3.0 units

3.0 units

Radio Production 54 hours lecture, 18 hours 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

2.5 units

aspects of radio station operation will be covered, such as management, sales, audience analysis and ratings. Transferable to CSU

2.5 units

2.5 units

2.5 units

R_TV 25 Radio Activity 36 hours lecture, 36 hours laboratory Grading: letter grade or pass/no pass

Formerly R_TV 25AD. 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. Transferable to CSU

R_TV 30 Broadcast Newswriting 36 hours lecture, 36 hours laboratory Grading: letter grade

Formerly R_TV 30AD. Students will learn to write, rewrite 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. Transferable to CSU

R_TV 34	2.5 units
Music Video Production	
36 hours lecture, 36 hours laboratory	
Recommended Prenaration: R TV 14	

Recommended Preparation: R_TV 14 Grading: letter grade or pass/no pass

Formerly R_TV 34 AD. 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. Transferable to CSU

R_TV 35 Television Activity 36 hours lecture, 36 hours laboratory Grading: letter grade or pass/no pass

Formerly R_TV 35AD. 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.

Transferable to CSU

R_TV 36 Broadcast News Production 36 hours lecture, 36 hours laboratory Grading: letter grade or pass/no pass

Formerly R_TV 36AD. 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. Transferable to CSU

R_TV373.0 unitsRadio/Television Management and Sales54 hours lectureGrading: 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. Transferable to CSU

R_TV402.5 unitsOn-Camera Performance36 hours lecture, 36 hours laboratory57 diamondaryGrading: letter grade58 diamondary58 diamondary

Formerly R_TV 40AD. 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. Transferable to CSU

R_TV 60 (C-ID FTVE 120)3.0 unitsPro Tools (Digital Audio Recording/Edit)36 hours lecture, 54 hours laboratoryGrading: letter grade54 hours lecture, 54 hours laboratory

Formerly MUSIC 60. This course provides instruction on the functions and operations of Pro Tools software and a general overview of Pro Tools related hardware. The

3.0 units

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. Transferable to CSU

R_TV 216 2.5 units **Non-Linear Video & Film Editing** 36 hours lecture, 36 hours laboratory Grading: letter grade or pass/no pass

Formerly R TV 214 AC. This course explores the process of non-linear video and film editing using Final Cut Pro.

R_TV 270WE	1.0 - 4.0 units
Work Experience-Radio, TV	
72 hours laboratory	
Grading: letter grade	

Students learn and gain on-the-job experience in the Radio Television field. Learning objectives are established collaboratively by the student, supervisor, and instructor. A minimum of sixty (60) hours of non-paid work or seventy-five (75) hours of paid work during the semester are required for each unit of credit. Students may earn from 1 to 4 units credit. Prior approval by R_TV Department faculty and compliance with Work Experience regulations as designated in the College Catalog. Qualification for enrollment. Instructor will verify prerequisites and qualifications: 1) completed work experience orientation; 2) submitted work experience application.

SOCIOLOGY (SOCIO)

SOCIO 1 (C-ID SOCI 110) 3.0 units Introduction to Sociology 54 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.

Transferable to UC or CSU; see counselor for limitations

SOCIO 1H (C-ID SOCI 110) **Honors Introduction to Sociology** 54 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.

Transferable to UC or CSU; see counselor for limitations

SOCIO 2 (C-ID SOCI 115)	3.0 units
Modern Social Problems	
54 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 the environment, crime, poverty, sexism, racism, sexuality, social change, addiction, abuse, and alienation. The role of social institutions will also be considered.

Transferable to UC or CSU; see counselor for limitations

SOCIO 11 (C-ID SOCI 150) 3.0 units Race & Ethnic Relations in the U.S. 54 hours lecture Recommended Preparation: 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. Transferable to UC or CSU; see counselor for limitations

SOCIO 11H (C-ID SOCI 150) 3.0 units Honors Race & Ethnic Relations in the US 54 hours lecture Prerequisite: Qualification for the Honors Program

Recommended Preparation: 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. Transferable to UC or CSU; see counselor for limitations

SOCIO 13
Sociology of Latinos
54 hours lecture
Grading: letter grade

3.0 units

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 globalization, immigration status, race, class, gender, and Latino responses to discrimination will also be examined. Transferable to UC or CSU; see counselor for limitations

SOCIO 17 (C-ID SOCI 140) 3.0 units Introduction to Sociology of Gender 54 hours lecture

Grading: letter grade or pass/no pass

This course takes a sociological approach to understanding the impact of gender and gender roles on social institutions and interactions in American society. Transferable to UC or CSU; see counselor for limitations

SOCIO 40 (C-ID SOCI 130) Sociology of the Family 54 hours lecture

3.0 units

Recommended Preparation: SOCIO 1 Grading: letter grade or pass/no pass

This course will examine the micro and macro sociological forces that impact and shape 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. and sexuality. Transferable to UC or CSU; see counselor for limitations

SOCIAL SCIENCE (SOCSC)

SOCSC 1 3.0 units **Comparative World Cultures** 54 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.

Transferable to UC or CSU; see counselor for limitations

SOCSC 1H **Honors Comparative World Cultures** 54 hours lecture

3.0 units

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. 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 1, Humanities 1H, or Social Science 1.

Transferable to UC or CSU; see counselor for limitations

SOCSC 7 Intro to Ethnic Histories and Identity Grading: letter grade or pass/no pass

3.0 units

54 hours lecture

This course explores the intersection of ethnicity, race and identities in American society from the humanities and social science perspectives. The course examines social justice movements in relation to ethnic and racial groups in the United States to provide a basis for a better understanding of the socioeconomic, cultural and political conditions among key social groups and an enhanced appreciation of the complexity of the processes effecting the interaction of the American

people. Not open to students registered in or with credit in HUMAN 7.

Transferable to UC or CSU; see counselor for limitations

FOREIGN LANGUAGE, SPANISH (SPAN)

SPAN 1 (C-ID SPAN 100) 5.0 units **Elementary Spanish** 90 hours lecture, 18 hours 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. NOTE: This course is comparable to two years of high school Spanish. Transferable to UC or CSU; see counselor for limitations

SPAN 1H

5.0 units

Honors Elementary Spanish 90 hours lecture, 18 hours laboratory

Prerequisite: Qualification for the Honors Program 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. NOTE: This course is comparable to two years of high school Spanish. Transferable to UC or CSU; see counselor for limitations

SPAN 2 (C-ID SPAN 110) 5.0 units **Elementary Spanish** 90 hours lecture, 18 hours laboratory Prerequisite: SPAN 1 or SPAN 1A and SPAN 1B 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.

Transferable to UC or CSU; see counselor for limitations

5.0 units **Honors Elementary Spanish** 90 hours lecture, 20 hours laboratory

Prerequisite: SPAN 1 or SPAN 1A and SPAN 1B and Qualification for the Honors Program Grading: letter grade or pass/no pass

SPAN 2H

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. Transferable to UC or CSU; see counselor for limitations

SPAN 3 (C-ID SPAN 200) 5.0 units Intermediate Spanish 90 hours lecture Prerequisite: SPAN 2 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. Transferable to UC or CSU; see counselor for limitations

SPAN 4 (C-ID SPAN 210) **Intermediate Spanish** 90 hours lecture Prerequisite: SPAN 3 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.

Transferable to UC or CSU; see counselor for limitations

3.0 units SPAN 8 Spoken Spanish 54 hours lecture Prerequisite: SPAN 2 Grading: letter grade or pass/no pass

Formerly SPAN 8AD. 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

5.0 units

3.0 units

Spanish. This course is not recommended for native speakers of Spanish. Transferable to CSU

SPAN 9 5.0 units **Spanish for Spanish Speakers**

90 hours lecture

Prerequisite: Spanish speaker with the ability equivalent of SPAN 2

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. This course has a prerequisite. Students must be a heritage speaker with the ability equivalent to SPAN 2.

Transferable to UC or CSU; see counselor for limitations

SPAN 9H **Honors Spanish for Spanish Speakers** 90 hours lecture

5.0 units

Prerequisite: Qualification for the Honors Program 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, writing, and reading 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.

Transferable to UC or CSU; see counselor for limitations

SPAN	10	(C-ID SPAN 230)		5.0	units
Spanis	h for Span	ish Speakers			
90 hou	ırs lecture				
Prereq	uisite: SPA	N 9 or SPAN 9H			
Gradin	g: letter gr	ade or pass/no p	ass		

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.

Transferable to UC or CSU; see counselor for limitations

SPAN 10H (C-ID SPAN 230) 5.0 units **Honors Spanish for Spanish Speakers** 90 hours lecture Prerequisite: SPAN 9 or 9H and Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course is the second semester of intermediate Spanish. It continues developing reading, writing and oral 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.

Transferable to UC or CSU; see counselor for limitations

SPAN 25A Advanced Spanish: Culture in Literature 54 hours lecture Prerequisite: SPAN 4 or 10 Grading: letter grade or pass/no pass

Students explore Hispanic and Latino cultural evolution of contemporary Latin America from Spain in the 1400s, including the Native American cultures, present day Latin America and the Hispanic communities in the United States 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.

Transferable to UC or CSU; see counselor for limitations

3.0 units

Advanced Spanish: History 54 hours lecture Prerequisite: SPAN 4 or 10 Grading: letter grade or pass/no pass

SPAN 25B

This course is a survey course that explores the historical and cultural evolution of contemporary Latin America from Spain in the 1400s, including the Native American cultures, present day Latin America and the Hispanic communities in the U.S.

Transferable to UC or CSU; see counselor for limitations

4.0 units

SPAN 25C3.0 unitsAdvanced Spanish: Politics, Current Event54 hours lecture

Prerequisite: SPAN 4 or 10 Grading: letter grade or pass/no pass

This course is a course that focuses on the current events of the Spanish-speaking world. Transferable to UC or CSU; see counselor for limitations

SPAN 25D3.0 unitsAdvanced Spanish: Literature54 hours lecturePrerequisite: SPAN 4 or 10Grading: 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.

Transferable to UC or CSU; see counselor for limitations

SPAN 2003.0 unitsSpanish for Medical Professionals54 hours lectureRecommended Preparation: SPAN 1Grading: letter grade or pass/no pass

This Spanish course for health and medical professionals is designed for students who plan to use Spanish as a communication tool in their field of specialization. Major emphasis is placed on vocabulary and situational dialogues closely related to health and medical careers. Students will demonstrate comprehension in all skills at a medium elementary level according to the standards set forth by the American Council on the Teaching of Foreign Languages (ACTFL).

STATISTICS (STAT)

STAT 1 (C-ID MATH 110)4.0 unitsElementary Statistics72 hours lecturePrerequisite: MATH 130 or MATH 130B or MATH 140Grading: 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).

Transferable to UC or CSU; see counselor for limitations

STAT 1H (C-ID MATH 110) Honors Elementary Statistics 72 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 LBCC assessment process for math, 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).

Transferable to UC or CSU; see counselor for limitations

STAT 801X Statistics Skills Support 18 hours lecture Corequisite: STAT 1 Grading: pass/no pass 1.0 unit

This course provides review of the core pre-requisite skills, competencies, and concepts required to be successful in the co-requisite STAT 1 Elementary Statistics course. By utilizing the "just-in-time" approach, students improve the necessary technical skills. With improved skills students are empowered to successfully solve problems and apply concepts utilized in statistics. The course introduces study skills specific to statistics with a strong emphasis on fostering a positive academic growth mindset.

THEATRE ARTS (TART)

TART 1 (C-ID THTR 151)
Acting 1-Introduction to Acting
54 hours lecture, 36 hours laboratory
Corequisite: TART 51
Grading: letter grade or pass/no pass

3.5 units

This course introduces the student to the fundamental elements and techniques of acting. The student actor will explore the theory and practice of acting through acting exercises, improvisation, theatre games, solo and twoperson or group scenes. The course also explores the concepts of acting through relaxation, concentration, sensory awareness and imagination as the student develops both an understanding and appreciation of acting for the theatre.

Transferable to UC or CSU; see counselor for limitations

2.0 units

TART 1B 2.0 units Acting 1 - Movement 27 hours lecture, 27 hours laboratory Prerequisite: TART 1 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.

Transferable to UC or CSU; see counselor for limitations

2.0 units

2.0 units

TART 1C Acting 1 - Voice 27 hours lecture, 27 hours laboratory Prerequisite: TART 1 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.

Transferable to UC or CSU; see counselor for limitations

TART 1D Acting 1 - Improvisation 27 hours lecture, 27 hours laboratory Prerequisite: TART 1 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. Transferable to UC or CSU; see counselor for limitations

TART 2 (C-ID THTR 152) 3.5 units **Acting 2-Technique & Characterization** 54 hours lecture, 36 hours laboratory Prerequisite: TART 1 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 and

emotional 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).

Transferable to UC or CSU; see counselor for limitations

TART 2A **Acting 2-The Spoken Text** 27 hours lecture, 27 hours laboratory Prerequisite: TART 1C 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).

Transferable to UC or CSU; see counselor for limitations

TART 2B **Acting 2-The Spoken Text** 27 hours lecture, 27 hours laboratory Prerequisite: TART 2A 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.

Transferable to UC or CSU; see counselor for limitations

TART 2C

2.0 units

2.0 units

Acting 2-Movement, Mime and Mask 27 hours lecture, 27 hours laboratory Prerequisite: TART 1B 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, theatrical sword fighting, characterization, juggling and period movement styles. This course includes class exercises and lectures. Transferable to UC or CSU; see counselor for limitations

TART 2D Acting 2-Movement, Mime and Mask 27 hours lecture, 27 hours laboratory Prerequisite: TART 2C 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.

2.0 units

Transferable to UC or CSU; see counselor for limitations

TART 3A 3.5 units

Acting 3-Scene Study 54 hours lecture, 36 hours laboratory Prerequisite: TART 1 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. Transferable to UC or CSU; see counselor for limitations

TART 3B3.5 unitsActing 3-Scene Study54 hours lecture, 36 hours laboratoryPrerequisite: TART 3A

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.

Transferable to UC or CSU; see counselor for limitations

3.5 units

TART 4 Acting Workshop-Style 54 hours lecture, 36 hours laboratory Prerequisite: TART 3A or TART 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. Transferable to UC or CSU; see counselor for limitations TART 25 (C-ID THTR 111) Introduction to Theatre 54 hours lecture 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.

Transferable to UC or CSU; see counselor for limitations

TART 303.0 unitsIntroduction to Dramatic Literature54 hours lectureGrading: 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. Transferable to UC or CSU; see counselor for limitations

TART 39AD (C-ID THTR 192)1.0 unitTheatre Practicum72 hours laboratoryGrading: 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.

Transferable to UC or CSU; see counselor for limitations

TART 40 (C-ID THTR 171)3.0 unitsStage Craft36 hours lecture, 54 hours laboratoryCorequisite: TART 39AD

Grading: letter grade or pass/no pass

Formerly TART 40AD. This course is a study of the theory, techniques and application of scenic design for the stage

3.0 units

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. Transferable to UC or CSU; see counselor for limitations

TART 42 (C-ID THTR 173) 3.0 units Introduction to Stage Lighting 36 hours lecture, 54 hours laboratory Corequisite: TART 39AD 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. Transferable to UC or CSU; see counselor for limitations

3.0 units

TART 43 Introduction to Stage Costume 36 hours lecture, 54 hours laboratory Corequisite: TART 39AD Grading: letter grade or pass/no pass

Formerly TART 43AD. Students will study costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated.

Transferable to UC or CSU; see counselor for limitations

TART 44 3.0 units **Costume Design** 36 hours lecture, 54 hours laboratory Prerequisite: TART 43 Corequisite: TART 39AD Grading: letter grade or pass/no pass

Formerly TART 44AB. 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. Transferable to UC or CSU; see counselor for limitations

TART 47 3.0 units Stage Management 54 hours lecture Grading: letter grade or pass/no pass

This class will introduce the principles, practices and skills of required for the professional theatrical stage manager and production manager. It will examine the responsibilities and functions of these roles in relation to the director, designers, and performers. With emphasis is placed on the duties, responsibilities and procedures from pre-production to post-production. Transferable to CSU

TART 49AD **Rehearsal and Performance** 144 hours laboratory Prerequisite: TART 1 Grading: letter grade or pass/no pass

This course focuses on the application of acting and technical theatre 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 at least play production. Transferable to UC or CSU; see counselor for limitations

TART 50 Maior Production Performance

2.5 units

0.5 unit

2.5 units

144 hours laboratory **Recommended Preparation: Audition** Grading: letter grade or pass/no pass

Formerly TART 50AD. 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.

Transferable to UC or CSU; see counselor for limitations

TART 50/1 **Major Production Performance** 36 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. Transferable to UC or CSU; see counselor for limitations

TART 50/21.0 unitMajor Production Performance72 hours laboratoryRecommended Preparation: AuditionGrading: 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. Transferable to UC or CSU; see counselor for limitations

TART50/32.0 unitsMajor Production Performance108 hours laboratory108 hours laboratoryRecommended Preparation: Audition

Grading: letter grade or pass/no pass

This course is the study of live theatre through lab exploration of all aspects of a classic comedic play production involving the performer. It develops acting capabilities, skills and disciplines through the audition, preparation and presentational phases of a staged public production.

Transferable to UC or CSU; see counselor for limitations

1.0 unit

3.0 units

TART 51 Theatre Forum 18 hours lecture Grading: letter grade or pass/no pass

Formerly TART 51AD. 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. Transferable to CSU

TART 55 (C-ID THTR 175)
Stage Makeup
36 hours lecture, 54 hours laboratory
Corequisite: TART 39AD
Grading: letter grade or pass/no pass

Formerly TART 55AB. 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. Transferable to UC or CSU; see counselor for limitations

3.0 units

TART 56Intermediate Stage Makeup36 hours lecture, 54 hours laboratoryPrerequisite: TART 55Corequisite: TART 39ADGrading: 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. Transferable to UC or CSU; see counselor for limitations

TART 75AD2.0 unitsSummer Repertory Theatre: Performance126 hours laboratoryCorequisite: TART 76AD

Recommended Preparation: Audition Grading: letter grade or pass/no pass

Formerly TART 75AD. 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.

Transferable to UC or CSU; see counselor for limitations

TART 76AD2.0 unitsSummer Repertory Theatre: Production126 hours laboratoryGrading: letter grade or pass/no pass

Formerly TART 76AD. 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.

Transferable to UC or CSU; see counselor for limitations

TART 201Show Business Careers-How to Start18 hours lecture, 36 hours laboratoryPrerequisite: TART 1Grading: 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.

1.5 units

TART 2041.5 unitsMarketing Yourself for Show Business18 hours lecture, 36 hours laboratoryPrerequisite: TART 1Grading: 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 2053.5 unitsAuditions for Theatre and Film54 hours lecture, 36 hours laboratoryPrerequisite: TART 1Recommended Preparation: TART 1B and TART 1C andTART 2Grading: 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 18 hours lecture, 36 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 206B1.5 unitsAudition and Interview Skills - Advanced18 hours lecture, 36 hours laboratoryPrerequisite: TART 206AGrading: 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 208A1.5 unitsBreaking into Commercials - Beginning18 hours lecture, 36 hours laboratoryPrerequisite: TART 1Grading: 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

Breaking Into Commercials - Advanced 18 hours lecture, 36 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 210A1.5 unitsVoice-Over Techniques - Beginning18 hours lecture, 36 hours laboratoryPrerequisite: TART 1Recommended Preparation: TART 1CGrading: letter grade or pass/no pass

LONG BEACH CITY COLLEGE

1.5 units

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 as well as video games.

1.5 units

0.0 unit

TART 210B Voice-Over Techniques-Advanced 18 hours lecture, 36 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 212A1.5 unitsActing in Film - Beginning18 hours lecture, 36 hours laboratoryPrerequisite: TART 1Grading: 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, steadycam, and multiple camera and digital aspects.

TART 212B1.5 unitsActing in Film - Advanced18 hours lecture, 36 hours laboratoryPrerequisite: TART 212AGrading: 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.

TEAS PREPARATION

TEAS 600 TEAS Preparation English and Reading 18 hours lecture

Recommended Preparation: Intermediate reading level in English Grading: LBCC non-graded course This course helps students prepare for the Test of Essential Academic Skills (TEAS) by developing and strengthening essential English and reading skills.

TEAS 6050.0 unitTEAS Preparation Math and Science18 hours lectureRecommended Preparation: Intermediate Reading Levelin EnglishGrading: LBCC non-graded course

This course helps students prepare for the Test of Essential Academic Skills (TEAS) by developing and strengthening essential math and science skills.

NURSING, VOCATIONAL NURSING (VN)

VN 215 6.0 units Fundamentals of Nursing 63 hours lecture, 135 hours laboratory 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 throughout the course of the semester in a Multidisciplinary Success Center to complete activities and assignments that relate specifically to this course's content.

VN 216 Home Health Aide 18 hours lecture, 27 hour

1.5 units

18 hours lecture, 27 hours laboratory Prerequisite: Completion of VN 215 or possession of a

valid current California Nursing Assistant (C.N.A) certificate Grading: letter grade

This course meets the requirements set by the California State Department of Public Health Services for a Certified Nursing Assistant to become a Certified Home Health Aide.

VN 220

4.0 units

Transition to Vocational Nursing 54 hours lecture, 54 hours laboratory Prerequisite: BIO 60 and VN 225 or ADN 225 Recommended Preparation: MATH 815 or higher or met the math college proficiency and READ 82 or READ 83 or met the Reading college proficiency 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. Students are required to complete 2 additional hours of Supplemental Instruction in a designated Success Center.

VN 222

1.5 units

Intravenous Therapy & Blood Withdrawal

27 hours lecture, 9 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 and blood withdrawal procedures. The course is designed to meet the California Board of Vocational Nursing and Psychiatric Technicians (BVNPT) Intravenous & Blood Withdrawal Certification. This course is designed for students currently in the last semester of the Vocational Nursing Program, or those preparing for licensure.

VN 225

3.0 units

Pharmacology 54 hours lecture

Recommended Preparation: BIO 60 or ANAT 1 and PHYSI 1 and READ 82 or completion of reading proficiency Grading: letter grade

This is an introductory course into the study and management of commonly prescribed drugs. Drug classifications and prototypes are discussed rather than individual medication. The principles of medication administration including common side-effects and nursing responsibilities is included. Dosage calculation is not included. This course is not open for credit to

students who have completed ADN 225. ADN 225 and VN225 are equivalent courses.

VN 230

3.0 units **Common Health Deviations 1** 54 hours lecture Prerequisite: VN 220, VN 225, and BIO 60 Corequisite: VN 230L 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, sensory(eye and ear), cardiovascular problems and respiratory disorders. Students are required to complete 2 hours of Supplemental Learning Assistance activities in designated Success Centers.

VN 230L 3.5 units **Common Health Deviations 1 Lab 189 hours laboratory** Corequisite: VN 230 Grading: pass/no pass

This course provides opportunity for nursing students to practice the concepts learned in VN230 in a variety of healthcare settings. The campus lab content includes basic data collection and health assessment, preparation of nursing care plans, documentation, oxygen therapy, medication administration, and a college level writing assignment based on individual case studies. Compliance with all clinical agency policies is required the first day of the course. Students are required to complete 189 hours: 32 hours on campus and 157 at off-campus clinical sites.

VN 235

3.0 units

Common Health Deviations 2 54 hours lecture Prerequisite: VN 230 and VN 230L Corequisite: VN 235L Grading: letter grade

This course provides the theoretical basis for the provision of nursing care for patients with various medical and/or surgical health care deviations in a variety of healthcare settings. This course continues to develop the concepts of nursing process and Orem's selfcare theory that were introduced in previous courses.

COURSES

2.0 units

1.0 unit

This course covers the nursing concepts of pain management and nutritional support, and the pathophysiology and nursing care for patients with health deviations that include the musculoskeletal system, gastrointestinal system, immune system, urinaryrenal system, hepato-biliary system, and infectious diseases.

3.5 units

2.0 units

1.0 unit

VN 235L Common Health Deviations 2 Lab 189 hours laboratory Grading: pass/no pass

This course provides opportunity for nursing students to practice the concepts of medical-surgical nursing in a variety of health care settings, including perioperative nursing care, as learned in VN 235. 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. Students are required to complete 189 hours: 32 hours on campus and 157 hours at off-campus clinical sites.

VN 240	3.0 units
Mental Health Nursing	
54 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 Maternal-Infant Nursing 36 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 Maternal-Infant Nursing Lab 54 hours laboratory 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 Nursing Care of Children 36 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
Nursing Care of Children Practicum
54 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 54 hours lecture Prerequisite: VN 235 and VN 235L Corequisite: VN 255L 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 Prostrate & reproductive, sexually transmitted diseases, basic emergent and cardiac deviations, advanced fluid and electrolyte balance, oncological, hematologic, neurological, thyroid & endocrine disorders.

VN 255L Common Health Deviations 3 Lab 189 hours laboratory Prerequisite: VN 230 and VN 230L 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 competency in the role of the vocational nurse in a variety of health care settings. Compliance with all clinical agency health and safety policies is required the first day of the course. Students are required to complete 189 hours: 32 hours on campus and 157 at off-campus clinical sites.

VN	260	1.5 units
Roles	and Responsibilities	
27 ho	ours lecture	
Prere	quisite: VN 240	
Gradi	ng: 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	
54 hours lecture	
Prerequisite: VN 255 and VN 255L	
Corequisite: VN 265L	
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 disaster preparation, leadership and supervisory roles of vocational nurses in a variety of health care settings including long term, subacute and rehabilitative/restorative care.

VN 265L Common Health Deviation-4 Lab 162 hours laboratory Prerequisite: VN 255 and VN 255L Corequisite: VN 265 Grading: pass/no pass

This course provides opportunity for students to apply nursing theory regarding chronic illnesses in the care of the older adult/geriatric population. A variety of health care settings is utilized including long term, sub-acute, rehabilitative and restorative. Students are required to complete 162 hours at off-campus clinical sites. Compliance with all clinical agency health and safety policies is required the first day of the course.

WELDING (WELD)

WELD 50 4.0 units Introduction to Welding 36 hours lecture, 108 hours laboratory Grading: letter grade or pass/no pass

This course is an introduction to the safe practices, setup, and operation of Shielded Metal Arc Welding, Gas Tungsten Arc Welding, Flux-Cored Arc Welding, and Gas Metal Arc Welding. Topics will include machine settings, basic electricity, welding symbols, and basic metallurgy. This course is designed for students that are seeking basic welding knowledge and skills. This course must be taken prior to any other welding courses at LBCC. Transferable to CSU

WELD 2112.0 unitsOxy-fuel Welding and Cutting Technology18 hours lecture, 54 hours laboratoryGrading: letter grade or pass/no pass

This course is an introduction to welding and cutting processes, emphasizing oxy-acetylene welding, oxy-fuel cutting braze welding, plasma arc and carbon arc cutting. 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.

WELD 212 4.0 units Introduction to Shielded Metal Arc Welding 36 hours lecture, 108 hours laboratory Grading: letter grade or pass/no pass

471

3.0 units

3.5 units

This course is an introduction to the safe practices, setup, and operation of Shielded Metal Arc Welding. Topics will include machine settings, basic electricity, welding symbols, and basic metallurgy. This course is designed for students that are seeking beginning Shielded Metal Arc Welding knowledge and skills.

WELD 213

4.0 units

3.0 units

2.0 units

Introduction to Semi-Automatic Welding 36 hours lecture, 108 hours laboratory Prerequisite: WELD 212 Recommended Preparation: WELD 50 Grading: letter grade or pass/no pass

This course is an introduction to the safe practices, setup, and operation of Flux-Cored Arc Welding (FCAW), and Gas Metal Arc Welding (GMAW). Topics will include machine settings, basic electricity, welding symbols, electrode selection, and Gas Metal Arc Welding transfer modes. This course is designed to prepare students for entry into an occupation using semi-automatic welding processes.

WELD 2144.0 unitsIntroduction to Gas Tungsten Arc Welding36 hours lecture, 108 hours laboratoryGrading: letter grade or pass/no pass

This course is an introduction to the safe practices, setup, and operation of Gas Tungsten Arc Welding. Topics will include machine settings, basic electricity, welding symbols, and basic metallurgy. This course is designed for students that are seeking basic Gas Tungsten Arc Welding knowledge and skills.

WELD 221Arc Welding Structural Certification54 hours lectureRecommended Preparation: WELD 212

Grading: letter grade or pass/no pass

This course reviews the practical applications and fundamental concepts to prepare students for the Los Angeles City Department of Building and Safety written structural welding certification test.

WELD 400 Welding (General) 18 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass

This course is designed for students seeking welding qualifications and certifications. This course is for

students with professional skills in welding processes. This course will allow the student to take the skills portion of the Los Angeles City Structural Steel Certification exam.

WELD 410 Welding (ARC) 108 hours laboratory Prerequisite: WELD 50 or WELD 212 Grading: letter grade or pass/no pass

2.0 units

This course covers the techniques of arc welding of steels, cast iron, aluminum, hard facing, cutting, safety practices and related information.

WELD 411	1.0 unit
Welding (ARC)	
54 hours laboratory	
Prerequisite: WELD 50 or WELD 212 or WEL	D 400 or
WELD 600	
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 4132.0 unitsSMAW Flat/Horz Groove Welds with Backing108 hours laboratoryPrerequisite: WELD 50 or WELD 212Grading: letter grade or pass/no pass

This is an intermediate course in SMAW (Shielded Metal Arc Welding) fundamentals with emphasis on structural welds in the flat and horizontal positions. This class prepares students to take the AWS certification test in structural steel and to advance their knowledge and skills in the SMAW process. It also includes correct equipment setup, safety practices, general related information, introduction to 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.

WELD 4142.0 unitsSMAW Vert & OV/HD Grv Welds w/ Backing108 hours laboratoryPrerequisite: WELD 50 or WELD 212Grading: letter grade or pass/no pass

This is an advanced course in SMAW (Shielded Metal Arc Welding) fundamentals with emphasis on structural

2.0 units

welds in the vertical and overhead positions. This class prepares students to take the AWS certification test in structural steel and to advance their knowledge and skills in the SMAW process. It also includes correct equipment setup, safety practices, general related information, introduction to 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.

WELD 415 2.0 units SMAW Flat/Horz Open Root Groove Welds 108 hours laboratory

Prerequisite: WELD 50 or WELD 212 Grading: letter grade or pass/no pass

This is an advance course in SMAW (Shielded Metal Arc Welding) fundamentals with emphasis on open root groove welds in the flat and horizontal positions. This class prepares students to take the AWS certification test in structural steel and to advance their knowledge and skills in the SMAW process. It also includes correct equipment setup, safety practices, general related information, introduction to 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 successful in the program.

WELD 4162.0 unitsSMAW Vert & O/H Open Root Groove Welds108 hours laboratoryPrerequisite: WELD 50 or WELD 212Grading: letter grade or pass/no pass

This is an advance course in SMAW (Shielded Metal Arc Welding) fundamentals with emphasis on open root groove welds in the vertical and overhead positions. This class prepares students to take the AWS certification test in structural steel and to advance their knowledge and skills in the SMAW process. It also includes correct equipment setup, safety practices, general related information, introduction to 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 successful in the program. WELD 461 1.0 unit Oxygen Acetylene Welding 54 hours laboratory Prerequsite: WELD 50 or WELD 211 or WELD 400 or WELD 600 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 480 Welding (Inert Gas) 108 hours laboratory Prerequisite: WELD 214 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 481	1.0 unit
Welding (Inert Gas)	
54 hours laboratory	
Prerequisite: WELD 50 or WELD 214 or WEL	D 400 or
WELD 600	
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 482

2.0 units

Gas Tungsten Arc Welding Basic Joints 108 hours laboratory Prerequisite: WELD 214 Grading: letter grade or pass/no pass

This course will address the techniques of Gas Tungsten Arc Welding (GTAW) of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices.

WELD 483	2.0 units
Gas Metal Arc/Flux Core Arc Welding	
108 hours laboratory	
Prerequisite: WELD 213	
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.

WELD 6000.0 unitWelding (General)18 hours lecture, 54 hours laboratoryGrading: LBCC non-graded course

This course is designed for students seeking welding qualifications and certifications. This course is for students with professional skills in welding processes. This course will allow the student to take the skills portion of the Los Angeles City Structural Steel Certification exam.

WELD 6010.0 unitWelding Practice18 hours laboratoryGrading: 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.

WELD 611 0.0 unit Welding (ARC) 54 hours laboratory Prerequisite: WELD 50 or WELD 212 or WELD 400 or WELD 600 Grading: LBCC non-graded course

This course provides practice in arc welding procedures on various types of metal and the opportunity to learn safety practices. WELD 661 0.0 unit Oxygen Acetylene Welding 54 hours laboratory Prerequisite: WELD 50 or WELD 211 or WELD 400 or WELD 600 Grading: LBCC non-graded course

This course is a study of the techniques of oxy-acetylene gas welding of steels, hard facing, flame cutting brazing, and safety practices.

WELD 681	0.0 unit
Welding (Inert Gas)	
54 hours laboratory	
Prerequisite: WELD 50 or WELD 214 or WEI	_D 400 or
WELD 600	
Grading: LBCC non-graded course	

This course provides practice in the techniques of metallic and tungsten inert gas welding, welding of steels, aluminum, magnesium, cast iron and safety practices.



LIBERAL ARTS CAMPUS

4901 EAST CARSON STREET LONG BEACH, CA 90808

PACIFIC COAST CAMPUS

1305 EAST PACIFIC COAST HIGHWAY LONG BEACH, CA 90806

www.LBCC.edu

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