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The Long Beach Community College District

Liberal Arts Campus

4901 East Carson Street, Long Beach, CA 90808 Tel: 562.938.4111

Pacific Coast Campus

1306 E. Pacific Coast Highway, Long Beach, CA 90806 Tel: 562.938.4111

ACCREDITATION

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

CURRICULUM OFFERINGS

The college reserves the right to determine which of the courses listed in the catalog are to be offered in each semester. Changes in curriculum or course content may occur after the information deadline for submission of information for this catalog, February 2016.

SCHEDULE OF CLASSES

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

In compliance with Section 508 of the Workforce Investment Act of 1998, the Long Beach Community College District provides the catalog and other college publications in alternative formats. If you are an individual who requires special assistance and would like materials in an alternative format, contact the Disabled Students Programs & Services department at (562) 938-4558 or (562) 938-4833 TDD. 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, please send an email to AcademicServices@lbcc.edu.

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WELCOME

President's Message



On behalf of our dedicated faculty, staff and administrators, it is my pleasure to welcome you to Long Beach City College.

LBCC serves about 25,000 students each year with affordable, flexible classes and a wide range of educational options. We pride ourselves on diversity – from the student population we serve to the outstanding educational programs we provide.

We offer career and technical education courses aligned with today's job market, a broad range of certificate and degree programs, and academic courses that prepare thousands of our students every year for successful transfer to universities. LBCC also provides leadership in the business community, as the host campus for regional workforce development programs that are creating new jobs and improving our economy statewide.

Meanwhile, our innovative programs like the Long Beach College Promise are ensuring that even more students are able to thrive at Long Beach City College.

For nearly 90 years Long Beach City College has supported our community and economy through the success of our graduates and alumni. We are glad you have chosen to be part of that tradition.

A handwritten signature in black ink, appearing to read 'Eloy Ortiz Oakley'. The signature is stylized and written in a cursive-like font.

Eloy Ortiz Oakley
Superintendent-President

WELCOME

Academic Senate Message



Welcome to Long Beach City College. The faculty at LBCC is dedicated to providing you with the knowledge and skills you that will need to be successful in your chosen profession. Certificate programs provide the foundation for you to begin, change or advance in your career. Associate degrees and transfer level courses are available if you are seeking a degree and/or wish to transfer to a university upon completion of your studies at LBCC. Counseling and other student service programs are available to help you select your course of study and ensure you make the most of your time at the college. The faculty is honored to share in your educational endeavors and we all look forward to meeting, talking and working with you. We are here to support you in your pursuit of your academic and personal goals.

Karen Kane
Academic Senate President

CALENDAR

2016 -2017 ACADEMIC CALENDAR*

Summer Sessions 2016

June 20	First 6 Week and 8 Week Sessions Begin
July 5	Second 6 Week Sessions Begins
	All Final Exams are the last scheduled day of class

Fall Semester 2016

August 29	Instruction Begins
September 20	Flex Day – No Classes
December 17	Fall Semester Ends
December 19-January 2	Winter Recess
Finals	All Final Exams are the last scheduled day of class

Winter Intersession 2017

January 3	Winter Intersession Begins
Finals	All Final Exams are the last scheduled day of class

Spring Semester 2017

February 6	Spring Classes Begin
March 7	Flex Day – No Classes
April 3-8	Spring Break
June 7	Spring Semester Ends
Finals	All Final Exams are the last scheduled day of class
June 8	Commencement

HOLIDAYS

	(No classes are in session)
July 4, 2016	Independence Day
September 5, 2016	Labor Day
November 11, 2016	Veterans Day
November 24-27, 2016	Thanksgiving Holiday
January 16, 2017	Dr. Martin Luther King Jr.'s Birthday Observed
February 17, 2017	Abraham Lincoln's Birthday Observed
February 20, 2017	George Washington's Birthday Observed
May 29, 2017	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.

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GENERAL INFORMATION



COLLEGE MISSION AND VALUES

Mission

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

Values

- Student Focus - Students are the focus and purpose for all we do; we serve them best by providing exceptional educational and student support services opportunities to help them succeed.
- Excellence - We value innovation and creativity as part of our commitment to the continuous improvement of our educational environment.
- Equity and Diversity - We cultivate equity and diversity by embracing all cultures, ideas, and perspectives and by striving for equitable opportunities and outcomes for all.
- Integrity - We encourage a civil and ethical campus environment and value the perspectives of all individuals.
- Responsibility - We promote social responsibility throughout our campus community and strive to realize an efficient and effective use of our various resources.

COLLEGE ORGANIZATION

BOARD OF TRUSTEES

Member Trustee Area 1	Jeffrey A. Kellogg
Member Trustee Area 2	Vivian Malauulu
Member Trustee Area 3	Sunny Zia
Member Trustee Area 4	Douglas Otto
Member Trustee Area 5	Dr. Virginia Baxter
Board Secretary	Jackie Hann
Superintendent-President	Eloy O. Oakley

SUPERINTENDENT-PRESIDENT OFFICE

Superintendent President	Eloy O. Oakley
Director, Superintendent-President Office.....	Miles Nevin
Executive Director, Foundation.....	Elizabeth McCann

EXECUTIVE COMMITTEE

Executive Vice President,	
College Advancement & Economic Development.....	Lou Anne Bynum
Vice President, Academic Affairs	Terri Long
Vice President, Student Support Services	Greg Peterson
Vice President, Administrative Services	Anne-Marie Gabel
Vice President, Human Resources	Rose DelGaudio

ACADEMIC AFFAIRS

Vice President, Academic Affairs	Terri Long
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ACADEMIC SERVICES

Dean, Academic Services.....	Michelle Grimes-Hillman
Director, Academic Services.....	Brent Gilmore

CAREER TECHNICAL EDUCATION (CTE)

Dean	Mollie Smith
Associate Dean	David Gonzales

The Career Technical Education departments include:

- Child Development and Educational Studies
- Family & Consumer Studies
- Culinary Arts
- Public Services
- Computer and Office Studies
- Trades & Industrial Technology

HEALTH, KINESIOLOGY, SCIENCE & MATHEMATICS

DeanPaul Creason

The Health, Kinesiology, Science & Mathematics departments include:

- Life Sciences
- Physical Sciences/Geography
- Math & Engineering
- Allied Health
- Associate Degree Nursing
- Vocational Nursing
- Kinesiology & Health Education

INSTITUTIONAL EFFECTIVENESS AND STUDENT SUCCESS

DeanEva Bagg

Director, Institutional ResearchLauren Sosenko

LANGUAGE ARTS & COMMUNICATIONS

DeanLee Douglas

The Language Arts and Communications departments include:

- Reading
- English
- ESL
- Foreign Language
- Communication Studies

LIBRARY AND LEARNING RESOURCES

Associate DeanKaren Rothstein

The Library and Learning Resources departments include:

- Learning and Academic Resources
- Library

SOCIAL SCIENCES AND ARTS

DeanDina Humble

The Social Sciences and Arts departments include:

- Visual & Media Arts
- Performing Arts
- Social Sciences
- Business Administration & Economics
- History & Political Science

ADMINISTRATIVE SERVICES

Vice President, Administrative Services.....Ann-Marie Gabel

FISCAL SERVICES

Director, Fiscal ServicesJohn Thompson

Budget Officer, Fiscal Services & PayrollSem Chao

Deputy Director, Finance & AccountingCindy Baker

Director, Payroll/Benefits ManagerJoan Carr

Store Manager, Bookstore.....Harold Taylor

General Manager, Bookstore at LAC.....Dana Heathcott

BursarStacey Robinson

Accounting SupervisorConrado Duran

FACILITIES

Director, District Facilities Tim Wooten
Deputy Director, Planning and Construction Medhanie Ephrem
Deputy Director, Maintenance and Operations Michael Burke
Manager, Facilities Maintenance Sean Michael
Business Manager, Stadium & District Facilities Vacant
Grounds and Transportation Supervisor Sean Rivell

BUSINESS SUPPORT SERVICES

Director, Business Support Services Margie Padron
Deputy Director, Purchasing & Contracts Alan Maloney
Manager, Environmental & Safety and Parking Services Brendan Hayes
Coordinator, Risk Services Cindy Smith

INSTRUCTION AND INFORMATION TECHNOLOGY SERVICES (IITS)

Chief Information Systems Officer Sylvia Lynch
Director, Applications Development & Support Mae Sakamoto
Director, Institutional Technology & Distance Learning..... Hussam Kashou
Deputy Director, Network Services Mark Guidas
Deputy Director, Academic Computing & Multimedia Services Cindy Hanks
Media Production Supervisor Fred Rossmannek
Deputy Director, User Support & Web Development Scott Voelker

COLLEGE ADVANCEMENT & ECONOMIC DEVELOPMENT

Executive Vice President, College Advancement & Economic Development . Lou Anne Bynum
Executive Director, Economic Development Sheneui Weber
Director, Workforce Development Melissa Infusino
Regional Executive Director, 10,000 Small Businesses Vivian Shimoyama
Interim Regional Director, Small Business Development Center (SBDC) Patrick Nye
Associate Director, Small Business Development Center (SBDC)..... Timothy Mittan
Director, Long Beach Small Business Development Center (SBDC) Ted Hiatt

COMMUNICATIONS AND COLLEGE ADVANCEMENT

Director, College Advancement, Public Affairs, and Government Relations John Pope
Associate Director, Public Relations and Marketing..... Stacey Toda

HUMAN RESOURCES

Vice President, Human Resources Rose DelGaudio
Associate Vice President, Human Resources Gene Durand
Director, Human Resources Monalisa Hasson
Human Resources Manager - Academic Diane Bangs
Human Resources Manager - Classified Diana Torres

STUDENT SUPPORT SERVICES

Vice President, Student Support Services Greg Peterson

ATHLETICS

Athletics Director Randy Totorp
Athletics Coordinator, Student Athlete Success Center Mary Hegarty

CAREER PATHWAYS SUPPORT SERVICES

Director	Amy Smith
Career Pathways Manager	Vacant

COUNSELING AND STUDENT SUPPORT SERVICES

Dean	Nohel Corral
Director, Categorical & Special Programs (DSPS)	Eric Borin
Assistant Director, EOPS	Anthony Hayes
Assistant Director, CalWORKs	Margaret Antonio-Palomares
Coordinator, Student Success & Support Services	Jannie Mackay
Interim Director, Student Success & Support Services	Yvette Moss
Coordinator, Transfer & Career Services	Ruben Page
TRIO Project GO Supervisor	Erika Thomas-Eddens

ENROLLMENT SERVICES

Executive Dean	Vacant
Director, Enrollment Services	Lillian Justice
Deputy Director, Enrollment Services	Juan Franc Menjivar
Enrollment Services Supervisor	Jason Avila
Enrollment Services Supervisor (Foster Youth)	Michele Pope
Veterans Resource Center Advisor	James Martinez

STUDENT AFFAIRS & STUDENT RELATIONS

Interim Dean	Alicia Kruizenga
Director, Student Health Services & Student Life.....	Virginia DuRivage
Nurse Practitioner	Marianne Palacios
Director, Student Conduct & Student Life	Josh Williams
Interim Coordinator, Student Success Grant/ASB Advisor	Camille Bolton
Director, School Relations & International Education.....	Vacant
American Language & Culture Institute Coordinator	Katherine Murrin
Associate Director, Scholarship & Outreach	Shyra Compton
Interim Upward Bound Supervisor.....	Romeo Garcia

For a complete listing of faculty and staff, visit: www.lbcc.edu/catalog/

College History

For nearly 90 years Long Beach City College has prepared students for success in their future studies and careers. LBCC has grown from a single building to 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 programs, certificate programs, and career and technical development programs.

As one of the largest of the 113 community colleges in California, LBCC is governed by 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 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 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 - Long Beach City College has earned 91 state championships, more than any other community college in California.

LBCC grew rapidly after World War II, adding the Pacific Coast Campus, (formerly Hamilton Junior High) in 1949. 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, Long Beach City College 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 instructional technology training programs for faculty connect students through course websites, social media and distance learning programs.

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 Long Beach City College to prepare its students to meet the changing demands of today's workplace both globally and locally.

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, organizing 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.

And innovative programs like the Long Beach College Promise – a unique partnership with the Long Beach Unified School District, California State University, Long Beach and the City of Long Beach – are helping more students succeed in college. The program has become a national model for communities looking to increase student success.

Long Beach City College 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

Long Beach City College Senior Studies Program provides fee based programs for adults. We offer classes in world affairs, music, and brain enhancement, all designed for the active adult. Mini tours to museums and galleries are also sponsored by our center. The Senior Center is located at the Pacific Coast Campus, Room FF 108. For further information, call (562) 938-3048.

Distance Learning

Distance Learning courses are designed to be equivalent and comparable to their on-campus course's version in quality, learning outcomes, special requirements, course fees, and credit. Students can enroll in these classes through the regular college registration process (walk-in or by accessing the Viking Student System through <https://my.lbcc.edu>). Distance Learning students are offered equivalent online services and support as on-

campus students. Electronic library services are extended beyond the services available on campus and include 24/7 online reference desk, resources, and electronic databases and catalog access. For further information, access the Distance Learning website at <http://www.lbcc.edu/dl> or call (562) 938-4818 or email dl@lbcc.edu.

There are two types of Distance Learning courses at LBCC:

Online Courses

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

Hybrid Courses

Hybrid courses meet partially online and include some required on-campus/face-to-face meeting(s). The on-campus meetings are either regularly or irregularly scheduled. Students can access the online portion of these courses at home, at off-campus public facilities, or make use of the college's Academic Computing Centers to log on to their course website.

Admissions to Long Beach City College

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 concurrent enrollment

OR

International Students with a valid Visa

Applying to the College New and Former Students

New or former students need to apply. A new student is a student who has never attended Long Beach City College. A former student is a student who attended LBCC but has not attended for one year and now wishes to return. All applications are completed through www.lbcc.edu. Applications are processed within 24-72 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 student who attended the previous semester.

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.

Admission and Enrollment of Special Admit Minors

Special Admit Minors are students enrolled in grades K-12 without high school diplomas, who can benefit from advanced scholastic or career/technical work.

High School Concurrent Enrollment

Long Beach City College is proud to offer concurrent enrollment to our local high school students. Concurrent Enrollment allows high school students to enroll in classes at Long Beach City College while they are still attending high school.

International Students

Students who are not U.S. citizens must verify their immigration status at the time of registration. If classified as a nonresident, they must pay nonresident tuition. Foreign students who plan to enroll with a student visa (F-1, M-1) must have the international admission application files completed through the International Student Office. No I-20 will be issued until all requirements are met. Contact the International Student Office for more information at (562) 938-4747 or visit www.lbcc.edu/international.

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

International Student Program

Admission Procedures

Long Beach City College welcomes International Students to enroll in the American Language and Culture Institute (ALCI), an Intensive English program or in the regular college academic and certificate programs.

The International Student Programs (ISP) offers specialized support services to international students from the moment of their initial application throughout their study at LBCC until their graduation. All international student applications are accepted and processed by International Student Programs (ISP).

American Language and Culture Institute (ALCI) – Intensive English Program

Admission Procedures

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

The program is modeled in 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 Long Beach City College American Language and Culture Institute can help them to reach their goal. The ALCI has been a great first step toward enrolling in LBCC's regular college program.

Applications for admission to ALCI can be submitted online at www.lbcc.edu/alci. ALCI applicants do not need to submit proof of English proficiency.

Tuitions and Fees:

Tuition is \$1,800.00

Session Additional Fees include:

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

International Student Admission to LBCC Academic or Certificate Programs

LBCC offers a wide range of academic university transfer programs, associate degrees and technical vocational certificates. An international academic counselor will help students plan for and reach 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 Long Beach City College:

1. Apply online at www.lbcc.edu/international
2. Application fee \$40 (paid online)

Applicants must adhere to application deadlines and send in all required documentation which includes:

1. Proof of English Proficiency: Accepted test scores are:
 - a. iTEP International English Test (level 4.5)
 - b. PTE Pearson test of English Academic (44 score)
 - c. TOEFL - 500/173/61 or better
 - d. ALI at CSULB - level 104
 - e. ALI at SDSU - level 106
 - f. IELTS - Level 5
 - g. TOEIC- 645 or better
 - h. ELS- Level 109
 - i. STEP Eiken - Level 2A
2. Proof of Financial Support: An original PDF signed and stamped bank statement or letter of financial sponsorship showing enough funds to cover academic and living expenses for at least one year of study at LBCC.
3. Academic Credential and Transcripts:
 - a. Proof of High School Graduation.
 - b. Official Sealed College/University transcripts (Must be in English)
4. Tuberculosis Test: Original PDF test result from a hospital or doctor is required.
5. Personal Essay: Personal one-page essay explaining why the student wants to study at Long Beach City College, discussing academic goals.
6. 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. Email all required documents to International@lbcc.edu

Tuition and Fees:

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

Upon receiving a completed application, an international admission advisor will review the file and inform the prospective student of the admission decision.

General International Student Immigration and College Policy:

1. As per immigration regulations and college policy all International students are required to enroll and complete 12 units each semester, except for summer and winter session.
2. All international students must purchase and maintain valid Student Health Insurance from an authorized LBCC vendor throughout their enrollment at LBCC.
3. International students are encouraged to be actively involved in campus life and activities.

Contact ISP at (562) 938-4745 or via email international@lbcc.edu for any questions regarding your 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 residence in the state for more than one year before the initiation of a semester or term (EC 68017), based on the "Residency Determination Date" which is the day immediately preceding the opening of instruction (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 (adults) establish residency in accordance with EC 68017 above. Adult residency begins after the 18th birthday.

Persons who are under 18 years of age (minors) establish residence in accordance with the above "resident" definition and the following:

Married minors may establish their own residence. The residence of the parent with whom an unmarried minor child maintains a place of abode is the residence of

the unmarried minor child. When the minor lives with neither parent, residence is that of the parent with whom the minor last resided. The minor may establish residence when both parents are deceased and a legal guardian has not been appointed.

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

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 above discussion. All visas must be examined by the college to determine residency status.

New and returning students who feel they have been incorrectly classified in their resident status or continuing students who now meet the resident requirement must submit a Residency Appeal to Admissions and Records. Residency Appeals must be filed two weeks after notification of your residency status. Continuing students need to submit the Residency Appeal no later than three weeks into 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.

Student Success and Support Program (SSSP), Formerly Matriculation

The Student Success and Support Program (SSSP) supports the transition of new students into the college by providing them services that promote academic achievement and successful completion of degrees, transfer preparation, career technical education, certificates, and/or career advancement.

New students are referred to required core services—assessment, orientation, and counseling; and these services must be completed in order to access their priority registration time. During this process, students will receive assistance in completing an abbreviated education plan; however, a course of study (major) and a comprehensive student education plan must be completed by the third semester but no later than completing 15 degree applicable units. Students may accomplish this

requirement by enrolling in a counseling course, attending an educational planning workshop, or scheduling an appointment with a counselor. A request to be exempt from completing one or more core services is available on the Assessment website at www.lbcc.edu/Assessment. Exemption approval requires that students provide sufficient justification for their request.

1. **College's Responsibility**

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

2. **Student's Responsibility**

All new non-exempt students must complete assessment and orientation before they enroll.

Students must identify a specific educational goal/major by the semester after they have completed 15 units of degree-applicable credit coursework. Diligence in class attendance, completion of assigned coursework and maintenance of progress toward an educational goal is expected.

3. **Components of the SSSP**

The SSSP is composed of the following components to ensure student success:

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

Other Student Services are available to assist students in attaining an educational goal: Financial Aid, Health Center, Job Placement, Transfer Center, and Tutoring

These components are required of all students to be fully matriculated. (See 5. for exemptions)

4. **Requirements**

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

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

5. **Component Exemptions**

Orientation and Assessment - Students who are exempt from the orientation and assessment component include students in the following categories:

- a. Students who hold associate degrees or higher.
- b. Students who demonstrate that they are taking courses only for personal enrichment.
- c. Students who are co-enrolled at a four-year college or university.
- d. Students who are enrolled only in:
 1. Performance or activity classes.
 2. with documentation of coursework from another accredited college or high school.

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

Admission - All students must participate in this component; there is no waiver process.

Orientation, Assessment and Counseling - Any student who feels that he/she is exempt from any of these components may appeal by filing a Matriculation Component Waiver form, which is available in the Assessment Office. These exemptions do not provide clearance for enrollment into specified English, Math, Reading or ESL courses. The waiver will be reviewed by the Matriculation Specialist and the student is then notified of the decision by mail. A student may request to participate in a previously waived component by contacting the Matriculation Specialist.

College Assessment Test - Appeals of Initial Placement Recommendation: A student may appeal an initial placement recommendation in English, Math, Reading or ESL by completing the Placement Appeal form available at the Assessment Office, Counseling Department or the respective department. The student will be notified of the appeal decision by mail.

7. **Student Rights and Matriculation**

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

Enrollment Priorities and Board of Governors Fee Waiver (BOG)

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 and/or who are in continuing student status, as long as satisfactory academic progress (SAP) is maintained. Beginning Fall 2016, the Board of Governors (BOG) Fee Waiver will be implementing satisfactory academic progress (SAP). All grades will be used to determine BOG eligibility. Any combination of two primary consecutive terms (Fall and Spring) of cumulative GPA below 2.0, and/or cumulative course completion less than 50% may result in loss of the BOG Fee Waiver.

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, orientation, and have an Electronic Student Educational Plan (e-SEP) in order to receive a priority enrollment.

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

Continuing 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 BOG

Students may submit an appeal for loss of enrollment priority and loss of BOG to Enrollment Services at either campus. Appeal forms can be picked up in the Enrollment Services Offices or on the college's website at <http://www.lbcc.edu/Admissions/forms.cfm>.

Student Grievance Policy

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

Complaints

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

Procedures for Application to School of Health and Science Programs 2016-2017

Health Care Programs may have limited enrollments due to the availability of clinical sites. These programs have separate admissions processes to ensure that students are selected in a fair and equitable manner. Admission to Long Beach City College 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 and are evaluated compared with the other students applying at the same time.

Registration Procedures

Students are responsible for officially enrolling in classes. A registration receipt is proof of enrollment. Students may not attend a class unless they are properly registered in that class. Registration may be done on-line or on a walk-in basis. See the Schedule of Classes for the semester enrolled for the dates, times, and instructions for registration. Students 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, and under the law is 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. (Rate 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 \$190 per unit, plus the normal enrollment fee of \$46 per unit, and a capital outlay surcharge of \$40 per unit, for a total of \$276 per unit (rate 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, it will be listed in the schedule of classes and that fee 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. 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 Long Beach City College. The CSC is validated each semester by a current CSC sticker. Revenue from this CSC Card supports the intellectual, physical, social and cultural goals of students through the sponsorship of educational and co-curricular programs. It underwrites the Associated Student Body student government, campus shuttle service, athletics, grants and scholarships, music and theater arts programs, Viking Newspaper, intramural and recreation, 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. There is no fee for winter sessions.

Student Health Fee: A health fee of \$19 for Fall and Spring and \$16 for Summer and Winter sessions will be charged upon registration, unless students meet one of the exemptions listed below:

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

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/intersessions is \$20.

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 the information to email or a flash drive to print at home or take to another source for printing.

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

Refunds

Students are eligible for a refund only if they withdraw from classes during the first two weeks of instruction for a full-term class. See the online student center for refund deadlines for classes less than full-term. Long Beach City College will determine the amount of federal financial aid that a student has earned in accordance with federal law. Students who receive federal financial aid and do not attend any classes will be required to repay all of the funds they received. Students who withdraw from all classes prior to completing more than 60% of the semester will have their financial aid eligibility recalculated based on the percentage of the semester completed and will be required to repay any unearned financial aid they received.

At LBCC a student's withdrawal date is:

1. The date the student officially filed a drop through the Admissions Office, via online, or
2. The student's last date of attendance at a documented academically related activity.

Long Beach City College 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/transfer period, transfers may only be made between classes in the same academic discipline. Furthermore, transfers will only be allowed under the following conditions:

1. Both classes are of equal length and start in the same week;
or
2. 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/Transfer Period: In order to receive a refund or transfer enrollment fees or nonresident tuition from one class to another, students must officially withdraw or transfer within the period defined below. Transfer of fees and tuition will be made at the 100 percent rate; refunds will be 100 percent. The period depends on the length of the class, regardless of when the student enrolls.

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

3. Enrollment fees, Nonresident tuition, health fees, and materials fees will be automatically refunded to students who officially withdraw or transfer during the refund period. After this period, they will not be refunded. In the case of a verified military withdrawal, enrollment fees will be refunded with no service charge

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

Appeal for Refund Due to Special Circumstances

1. The Enrollment Services Management Team shall consider all appeals for refund of tuition and enrollment fees.
2. The Vice President of Student Support Services, or Designee, shall consider all appeals for refund of College Services Card and parking fees.

Change of Address and/or Name: Change of address may be completed via the online student self-service portal, or in the Admissions and Records Office. Name changes must be completed in-person 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

Long Beach City College provides you with a wide variety of academic assistance and personal support, but it is up to you to know when you need help and to seek it out. It is your responsibility to keep informed and to obey campus rules, regulations, and policies that affect your academic standing as a Long Beach City College student. Meeting deadlines, completing prerequisites, and satisfying the degree and certificate requirements, as found in the curriculum guides and in this catalog, are all part of your responsibility as a student. Consult this catalog, the college and school announcements, and the schedule of classes for the information you need. Watch for official announcements in the Viking and on-campus bulletin boards.

Family Educational Rights and Privacy Act (FERPA)

All student records of Long Beach City College are maintained in accordance with the provisions of the Family Educational Rights and Privacy Act of 1974.

Copies of the complete text of this act are available in the college library.

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

1. Students may request access to challenge the correctness or appropriateness of any part of the record. Grades, though a part of the record, are considered final as assigned by the instructor. See change of grade section for further information.
2. Student information, except for directory information as defined below, cannot be released by the college to any outside agency, except for those entitled to access under FERPA, without signed permission of the student. The student may restrict the release of "directory information" by completing the appropriate form in the Admissions Office. In the absence of having this form on file, the college may release directory information.

Directory information is defined as dates of attendance, degrees, certificates or awards received, verification of student participation in school activities and sports and weight and height of members of athletic teams.

1. Parents may have access to records of their children but only if the children are still their dependents as evidenced by a claim of same on federal income tax returns. Parents desiring access to the records of a dependent child must complete the college dependent release form and present the full name, social security number, birth date of the child, and their own personal identification and a copy, that the college district may keep, of the current year's federal income tax transcript indicating the child has been claimed as a dependent. Parents seeking to review records of a dependent child during the early months of the year must be able to demonstrate that they have already filed for the year even though the filing deadline isn't until April 15th.
2. By law, notwithstanding any of the above, all student records must be released under court order and other federal mandated requirements. The student will be notified by mail to the last address on file in the event of a subpoena. The student shall have the right to request a copy of any information released in this manner.
3. Any questions regarding the student's rights under this act should be directed to the Dean, Enrollment Services or their 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 for students. This information may be obtained from the Student Health Services— (562) 938-4210 (LAC) or (562) 938-3992 (PCC). In addition, information may be obtained regarding counseling, treatment, and rehabilitation. Long Beach City College offers forums and other educational programs regarding the harmful effects of drugs and alcohol. All inquiries will be held in the strictest confidence.

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

Campus Security and Crime Awareness

It is the policy of the Long Beach Community College District to maintain a safe and secure environment for its students, staff, and visitors. Safety and security requires that everyone on campus be alert, aware, and responsible. The Long Beach Police Department provides police services to the Long Beach Community College District through its City College Unit. The City College Unit is comprised of an assigned Lieutenant, four police officers, and 16 security officers 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 Long Beach City College as safe as possible for students, employees, and visitors. The Long Beach Police Department College Unit exists to inform, educate and make individuals aware of personal safety, as well as the safety of others. Students are encouraged to promptly and accurately report all criminal and emergency actions to the Long Beach Police Department College Unit on either campus. Those actions requiring further reporting should also be reported to the appropriate law enforcement agency. Assistance will be provided, as needed, to accomplish this task.

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

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

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

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

In compliance with the Student Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of our college district to make available its completion and transfer rates to all current and prospective students.

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

EMERGENCY SERVICES – 911 or 9911 from campus phones:

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

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

Contact the Police Department for questions or problems regarding security, lost and found items, thefts or other crimes. The LAC office is located in Building X on Lew Davis. Business hours are Monday through Friday, 8:00 a.m. to 5:00 p.m. After business hours call the General Service number or 911 (9911 for on-campus phones) for an emergency.

STUDENT SUPPORT SERVICES



Counseling and Student Development

The Counseling Department assists students in the selection of career and educational goals consistent with their interests and aptitudes. The Counseling Department is designed to complement the instructional programs by providing major specific counseling services. Counselors are available to assist students in developing an educational plan to achieve their stated goal. If a student has not identified a career goal, the Career and Job Services Center can help them through the decision making process. Counseling appointments may be scheduled:

- Call (562) 938-4560 (LAC) or (562) 938-3920 (PCC)
- In-person in the Counseling Department at (LAC) A-1111 or (PCC) GG-202
- Online at www.lbcc.edu/counseling/
- For Athletic, Career, Honors, or International Counseling, please contact the office to schedule an appointment.
- For counseling hours at either campus, check the counseling website.

Online Counseling Services are available as a flexible alternative to meeting with a counselor. Students can meet with a counselor via webcam, online Express or online chat. General questions can also be answered via email. Visit the Online Counseling website at www.onlinecounseling.lbcc.edu or access it directly from the LBCC website at www.lbcc.edu and click Online Counseling.

Campus Child Development Center and Learning Lab

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

Transfer Center

The Transfer Center is part of Career and Transfer Services at Long Beach City College. We offer assistance to those in the process of transferring to a four-year college or university. Online application assistance is available for CSU, UC, and private universities. Other services available include university representative appointments, university tours, university transfer fairs, and specialized transfer workshops. There are centers on both campuses; at the LAC in room A-1097 (562) 938-4670 and at the PCC in room EE-105 (562) 938-3916.

Please visit the Transfer Center website at www.transfer.lbcc.edu for our calendar of transfer events, regular transfer updates, valuable transfer resources, and updated hours of operation. Start on your successful university transfer goals through our support services.

Career and Job Services Center

The Career and Job Services Centers are part of Career and Transfer Services at Long Beach City College. We are here to assist individuals in their career planning and job search endeavors. The programs and services available to help in this personal exploration include:

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

The opportunity to explore career options and be successful in entering the 21st century workforce is what our services are all about. Counselors and other staff are available to assist you. There are Centers on both campuses; at LAC in room A-1097 (562) 938-4670 and at PCC in room EE-105 (562) 938-3916. You may also visit our website at www.careers.lbcc.edu for important career resources, access to our employment database, explanation of services, and current hours of operation.

Student Life and the Student Unions

The mission of the Office of Student Life is to create, encourage, and support a positive collegial learning environment whereby the educational goals of students and the College are enhanced. A number of activities and programs give students the opportunity to get connected to Long Beach City College. These programs present opportunities for leadership development, personal growth, shared governance, healthy competition, volunteerism, and developing a sense of community. All Student Life offices are housed in the Student Union at both the LAC Campus (Building E) and the PCC Campus (Building EE).

Clubs and Organizations - Joining a club and/or organization provides the perfect opportunity to make new friends, develop leadership skills, and contribute to the college and community. Utilizing your contacts and experiences can help you build your resume and plan for your future.

Student Government - The Associated Student Body (ASB) is the student voice for ALL students of Long Beach City College. The ASB supports the intellectual, physical, social, and cultural goals for students through the sponsorship of educational and co-curricular programs. For students interested in participating in student government including the Associated Student Body Cabinet or PCC Student Council, you may consider one of the many elected or appointed positions. Your ASB is funded by the College Services Card.

Intramurals and Recreation - Intramurals and Recreation strives to promote better health by offering a variety of intramural and recreational activities for participants of all abilities. Intramurals and Recreational Sports offers a wide range of programming and plays an integral role in student life.

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 transcript record of their volunteer service which has helped many LBCC students in transferring to four year colleges and universities.

LBCC Student Unions - This is your one-stop location for getting involved in student clubs and organizations, buying your College Services Card, applying for the Viking Volunteer program, signing up for Intramural, 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. Check us out in building E at LAC and building EE at PCC.

College Advancement and Economic Development (CAED)

Long Beach City College is a leader in creating and retaining regional jobs and advancing the region's economic growth and California's global competitiveness. This is a core part of our mission as a California community college, as essential as our academic programs, vocational training and student services. Our economic and workforce development programs help businesses grow and create jobs, and help people develop the skills they need to succeed in the workplace. We focus 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.

CAED programs and initiatives include:

- **Workforce Development.** 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 for the community and a gateway to higher or continuing education.
- **Small Business Development Center Network.** Facilitating millions of dollars in capital for small businesses, creating and retaining thousands of jobs, and supporting start-ups and established businesses through coaching and professional development.
- **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.
- **Building the Entrepreneurial Ecosystem.** Accelerating the development of high-growth start-up businesses with targeted education, mentoring, and connecting entrepreneurs to resources and funding networks to foster job creation.

CAED 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 additional information, call (562) 938-5020 or email: caed@lbcc.edu.

Student Health Services

LBCC Student Health Services provides optimal wellness through quality and accessible primary care and mental health services on-campus, and through health care, dental care and mental health partnerships within the Long Beach community. All services are no-cost or low-cost and are supported by student health fees. Student Health Services

engages students in making informed decisions about health-related concerns and empowers them to be self-directed health care consumers. Health Services are located on both campuses and are staffed by nurse practitioners, registered nurses, and health service technicians. Services include:

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

Information on low-cost health insurance coverage under Covered California is also available.

The Health Services office located at LAC in room A-1010 and at PCC in room GG-117. For information or to make an appointment to see a nurse or a nurse practitioner call (562) 938-4210 (LAC) or (562) 938-3992 (PCC).

Psychological Services

Individual counseling by a licensed or graduate mental health professional is available at no cost for students currently enrolled at LBCC. We provide individual and group services to help students cope with academic stress, anxiety, depression and substance abuse. Counseling services are available by appointment. Walk-in slots are also available for students in crisis. Sessions are strictly confidential and are held in the Student Health Services offices at both LAC in room A-1010 and PCC in room GG-117. Crisis intervention and referrals to campus and community resources are also available. Contact (562) 938-3987 for more information.

Evening Safety Escorts

Escorts are available to students at both LAC and PCC. Students should call the City College Unit through the General Service number to arrange for an escort to meet them on campus. Call (562) 938-4910 or (562) 435-6711.

Parking and Traffic Regulations

Parking permits are required for all Long Beach City College lots; that is, a current semester student parking permit or a daily permit. Student permits and daily permits do not

authorize parking in staff or other reserved areas except where posted otherwise. At LAC, there is additional parking in the Veterans Stadium Parking Lot. Parking permits are purchased each semester during registration at the time the College Services Card is purchased or may be obtained later at the Cashier's Office.

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

- Parking permits are required at all times in LAC and PCC parking lots. 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 P, E, F, H, M and Veterans Stadium. There are two machines on each level of the parking structure. The PCC machines are located in Lot 1, 2 and 5.
- Meter parking is available in Lot F, G, H, and on Lew Davis at LAC. There are also 30-minute visitor parking zones along the north curb of Carson Street for LAC and in Lot 7 at PCC.
- Semester parking permits must be attached to either the rear view mirror, so that it is visible from the front of the vehicle, or on the lower left corner of the rear window (driver's side). 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. This special convertible permit can only be obtained after the purchase of a semester parking permit.
- Student permits and daily permits do not authorize parking in staff or other reserved parking spaces except where posted otherwise.
- Parking is available on a first-come, first-served basis.
- All vehicles must be parked between the lines of a designated parking space only. Backing into parking stalls is not permitted. Motorcycles and mopeds are to be parked only in areas specifically posted for their use. Operators must purchase a current semester parking permit and keep it in their possession. Motorcycles and mopeds may not be driven on campus or parked on sidewalks. Violators will be cited.
- A permit does not guarantee a parking space in the parking lot of choice. You are advised to allow ample time to find parking. At LAC, there is additional parking in the Veterans Stadium parking lot.
- Citations are issued by the Long Beach Police Department to automobiles, motorcycles, and mopeds that do not display a properly placed, current parking permit. Students parked in staff or other specially desig-

nated 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 or by calling (562) 570-6822.
- Students, staff, or faculty with state-issued disabled placards are to park in the marked handicap spaces. If a handicap space is not available, parking is allowed in any other student or staff space. Disabled permits are not valid in carpool or other reserved spaces.
- Regulations pertaining to parking can vary from lot to lot. It is the responsibility of the driver to read the parking regulations that are posted at the entrance of each parking lot.

Student Financial Aid

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

The application process for financial aid begins with the completion of the Free Application for Federal Student Aid (FAFSA) which is available on January 1 for the following Fall semester (apply online at www.fafsa.gov).

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

- Must be enrolled in an eligible program of study leading to completion of an A.A./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 PROGRAMS

Federal Pell Grants

This grant is 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. Please check with the Financial Aid Office or visit the website for the maximum and minimum PELL award amounts. PELL Grants are limited to 12 semesters.

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 eighteen hours per week while school is in session.

*FSEOG and FWS funds are limited and early application is strongly advised. Be sure to check the financial aid calendar available online at www.lbcc.edu/financialaid for financial aid deadlines.

The William D. Ford Direct Loan Program provides loans to students to be used for educational expenses. Freshman students may borrow up to \$3,500 per year and sophomores (those who have completed 30 units) may borrow up to \$4,500 per year in subsidized loans. Based on need additional unsubsidized loans are also available.

CALIFORNIA STATE PROGRAMS

Board of Governors Waiver (BOGW)

There are several ways to qualify for a BOGW:

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, or Supplemental Security Income (SSI), or General Assistance/General Relief, or the student is a disabled veteran or a dependent of a de-

ceased 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/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.

Cal Grants

Cal Grant Programs are available to California Residents who qualify. United States citizens, permanent residents or eligible noncitizens may apply for Cal Grant, via the Federal Application for Student Aid (FAFSA). Beginning January 15, 2013 AB-540 students may apply via the California Dream Act Application. The deadline to apply is March 2nd each year for all California College Students (maximum opportunity). If you miss the March 2nd deadline and you plan to attend a community college in the fall, you have until September 2nd (limited number of grants available). Be aware there is also a GPA submission requirement. The college electronically transmits GPA verifications for certain students. For detailed information go to www.csac.gov. Students must be actively enrolled in at least 6 units to receive Cal Grant benefits.

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

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

Cal Grant B provides a living allowance and tuition/fee help 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 school students with tuition and training costs. Recipients must be enrolled in a vocational program at a community college, independent college or vocational school, in a program of study from four months to two years in length.

Chafee Grant program is available to former foster youth. Awards are \$5,000 per year. Apply using the FAFSA and the separate Chafee Grant application. For more information, please visit www.chafee.csac.ca.gov

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 BOG Fee Waiver or Cal Grant. Please visit www.lbcc.edu/FinancialAid/ab540.cfm to read more about it.

Financial Aid Office

Liberal Arts Campus
4901 E. Carson Street,
Room A-1075
Long Beach, CA 90808
(562) 938-4485

Financial Aid Office

Pacific Coast Campus
1305 E. Pacific Coast Hwy,
Room GG-202
Long Beach, CA 90806
(562) 938-4485

Veterans Service Office (VSO)

The VSO provides an office of support for veterans and their dependents by offering assistance with receiving VA benefits, financial aid, enrollment at LBCC and service as a resource for other benefits related to veterans.

G.I. Bill

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

Once veterans have enrolled in classes, they must complete a request for VA Benefits, either at the PCC VA Office or through www.lbcc.edu/Veterans/gibill.cfm. More information is available at the VSO located in the E-Building. Contact the Veterans Affairs office at, (562) 938-3929.

Extended Opportunity Program & Services (EOPS)

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

The following services are provided through EOPS at Long Beach City College: priority registration, academic and personal counseling, special events, workshops, and supplemental book assistance (based on available funding). Students who would like to apply for the program must first complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov.

EOPS Eligibility: Students must be California residents, not have completed more than 53 degree-applicable units, be enrolled full-time, be eligible for the California Board of Governors' Fee waiver (BOGFW-A or B) and meet the educationally disadvantaged criteria.

Cooperative Agencies Resources for Education (CARE):

The CARE program provides additional support services to assist students in EOPS who are single heads of household

CalWORKs or GAIN participants with at least one child under the age of fourteen. The objective of the program is to provide linked resources that enable eligible student's complete college-level training and educational programs.

CalWORKs

CalWORKs is the community portion of the California Work Opportunity and Responsibility to Kids Act: the welfare reform program established by Assembly Bill (AB) 1542. CalWORKs funds assist single parents who are receiving Temporary Assistance for Needy Families (TANF), and those in transition off welfare, to achieve long-term self-sufficiency through coordinated student services. CalWORKs participants can also take advantage of our work study program which employs students in professional companies that provides them with job training.

Services available for eligible students can include: Career/academic and individual advisement and counseling; book/supplies voucher assistance; employment assistance-including work-study assignments, resume writing, job search skills, and interview preparation; temporary child care assistance; community/support and services referral; 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, book and supply material request forms. Please note: Students must submit a class printout with all documentation turned in for completion, and we have a three business day turn around for pick-up of documentation.

Eligibility requirements include: 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 be a full-time student (12 units) or have an approved documented exemption. CalWORKs students have the responsibility of: complying with a combination of 20/30 hours a week (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 career and student must meet with their CalWORKs counselor at least once a semester.

For more information about CalWORKs services, our office hours and location; visit our website at: 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 support services that empower students with disability-related limitations to participate in the college's programs and activities. They include:

1. Accessible parking spaces.
2. Registration assistance for students unable to negotiate the standard registration procedures.
3. Specialized academic, personal, and vocational counseling.
4. Special equipment for campus use (available on an as-needed/ first come first serve basis) such as visual enlarging machines, a talking calculator, assistive listening devices, and adaptive computer equipment.
5. Access to services of the State Department of Rehabilitation, such as vocational counseling and guidance, training, and job placement.
6. Accessible instruction for students with physical, learning, psychological, and/or developmental disabilities.
7. Training in the use of assistive computer technology including access to the DSPS Adaptive Computing Lab.
8. Specialized services for the deaf and hard of hearing, including speechreading (lip reading) instruction, as well as the coordination of classroom interpreters for qualified students. Students who may need these services should request these services from DSPS prior to the beginning of classes.
9. Adapted physical education for students with physical limitations requiring specialized physical education.
10. Access to print in alternate formats.

DSPS is committed to the student with a disability and ensuring that students are able to participate in college programs and activities in the most integrated setting possible. For information or appointments, please call: (562) 938-4558 (LAC); (562) 938-3921 (PCC); (562) 275-7471 video phone.

Americans with Disabilities Act of 1990

(The ADA Amendments Act of 2008 (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 Americans with Disabilities Act (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.)

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

Support services for students with a disability are provided through the Disabled Students Programs and Services (DSPS) Program. Anyone needing information about our services for students with a disability should contact this office at (562) 938-4558 (LAC) or (562) 938-3921 (PCC).

Anyone with a question or a complaint of unlawful discrimination should contact the Human Resources at (562) 938-4372.

Section 504, Rehabilitation Act of 1973

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

Anyone with a question or a complaint of unlawful discrimination should contact the District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808, (562) 938-4372.

Civil Rights Compliance Statement

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

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

The lack of English language skills will not be a barrier to admission and participation in the District's programs. Anyone with a question or a complaint of unlawful discrimination should contact the District Compliance Officer at (562) 938-4372.

Title IX. Prohibiting Sex Discrimination in Education

The Long Beach Community College District is committed to support all regulations under Title IX. "No person in the 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." Anyone with a question or discrimination complaint should contact Human Resources at (562) 938-4372.

AB 1088 Mandatory Orientation: Sexual Violence Prevention

In compliance with Assembly Bill 1088, the Long Beach Community College District provides sexual violence prevention information to students during on-campus orientations, and posts this information on the campus Internet website <http://www.lbcc.edu/studenthealth/sexassult.cfm>,

This site contains valuable information about ways to avoid rape, what to do in a risky situation, and what to do in case of rape.

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

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

- Counseling Offices: LAC room A-1111 (562) 938-4559 or PCC room GG-203 (562) 938-3922.
- Student Health Services: LAC room Q-120 near the Gym (562) 938-4210, PCC room AA-114 near Administration (562) 938-3992.

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

Sexual Harassment Policy Statement

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

Individuals with questions and/or a sexual harassment complaint should contact the District Compliance Officer, 4901 E. Carson St., Long Beach, CA 90808 at (562) 938-4372.

LEARNING RESOURCES



Libraries

Libraries at each of the two main campuses serve as vital information centers. The collections include books, electronic books, periodicals, DVDs, CDs, and other video and audio recordings, carefully selected to support the curriculum and information needs of the community of learners. The library website provides a portal to valuable resources, such as the online catalog, electronic databases, reliable websites, and instructional materials, accessible on campus and remotely over the Internet. During all hours the libraries are open, librarians are available to assist students in person and via e-mail and instant messaging. To help students develop information competency, the Library faculty at both campuses offer instruction in the form of courses, workshops, and orientations. For more information, please visit the Library website at www.lib.lbcc.edu. For additional information, call (562) 938-4232/4231 (LAC) or (562) 938-3028 (PCC).

Learning and Academic Resources

Department LAC & PCC Multidisciplinary Student Success Center (L-212, EE-206)

Check our website at www.lbcc.edu/SuccessCenters and www.lbcc.edu/LAR. For further information or to learn how the Center can meet your needs, please call (562) 938-4699 (LAC) or (562) 938-3991 (PCC).

The Multidisciplinary Success Centers provide:

- Supplemental Learning Assistance
- Workshops on a variety of topics
- Tutoring
- Adult Basic Education
- Test preparation - College Assessment
- TEAS
- Basic Skills

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

Liberal Arts Campus

L Building 2nd Floor
(562) 938-4699

Pacific Coast Campus

EE Building 2nd Floor
(562) 938-3991

Tutoring

Free tutoring is offered in a variety of college subjects, including accounting, biology, chemistry, physics, foreign languages and math. Students work individually and in small groups. Interested students should inquire in person in L-203 at LAC or LL-211 at PCC, or by phone at (562) 938-4474.

Media Materials

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

Academic Computing Centers

Macintosh and PC computers, software, laser printers and Internet access are available to students in a large open-access computer lab at both campuses.

Academic Computing Center (LAC)

The LAC Academic Computing Center is located in the upper level of the L Building, L-251. Students wishing to use the computing center must be in possession of a current student ID card or have a current printout of their classes. See www.lbcc.edu/LAR/computerlabs.cfm for more information and posted hours or call (562) 938-4854.

Academic Computing Center (PCC)

The PCC Academic Computing Center is located in the upper level of the LL Building, LL-216. Students wishing to use the computing center must be in possession of a current Student ID card or have a current printout of their classes. See www.lbcc.edu/LAR/computerlabs.cfm for more information and posted hours or call (562) 938-3094.

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, please call (562) 938-4669.

Computer and Office Studies Study Centers

Computer and Office Studies Study Centers are located at PCC-AA206 and at LAC-M109. For further information or to learn how the Computer & Office Studies Study Centers can meet your needs, please check the website: www.cos.lbcc.edu/cosstudycenters.php.

Writing and Reading Success Center

Liberal Arts Campus

The Writing and Reading Success Center (WRSC) is located in the lower level of the E Building (E09L). The WRSC offers Supplemental Learning Assistance (SLA) activities for English and Reading classes. These activities may be accomplished in an instructor-guided, one-hour workshop format, in a tutor-facilitated, one-hour Directed Study Group (DSG) format in which a small group of students work on the activity collaboratively with the assistance of a trained tutor, or in a Directed Learning Activity (DLA) format in which the student first works alone on the activity and then has an instructor or trained tutor follow up on his or her work.

The WRSC also offers free tutoring for any subject requiring writing or reading assistance. Both drop-in

and scheduled tutoring appointments are available. Appointments are necessary for all Workshops and DSGs, but when space is available, walk-ins are welcome. A wide range of written, online, and audiovisual materials are also available for student use.

For further information or to learn how the Writing and Reading Success Center can meet your needs, please check our website: www.lbcc.edu/WRSC or call (562) 938-4520.

Nursing and Allied Health Learning Center & Skills Lab

Liberal Arts Campus

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

The Learning Center is located in Room C-304 and is open during posted hours. For additional information, call (562) 938-4299.

A Simulated Hospital Room in C-204 is available and students are exposed to technology that simulates health care scenarios in a controlled setting. Many courses utilize simulation to facilitate learning.

Foreign Language Multimedia Learning Center

The Foreign Language Learning Center located in M-103 at LAC and BB-233 at PCC offers technological and linguistic support in a multimedia environment for students enrolled in foreign language classes. The Center also operates as an open access lab to support computer-assisted learning.

For additional information, please call (562) 938-4320.

Math Success Centers

Liberal Arts Campus

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

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

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

The Mathematics Success Center is in V-161 on the first floor of the Math and Culinary Arts Building near the corner of Clark and Carson Streets. Students may use the Mathematics Success Center facilities on a walk-in basis throughout the semester. They must register for MATH 650, a noncredit course, and be concurrently enrolled in any math course. Hours of operation include Monday through Saturday. For further information, please call (562) 938-4228.

ACADEMIC POLICIES



ACADEMIC POLICIES

Faculty Office Hours

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

Class Syllabus

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

Student Attendance

Attendance is the responsibility of the student. Students not attending the first class session may be dropped from the class at the discretion of the instructor. In the event of excessive absences, the instructor may drop a student from a course or may lower a student's grade. Students who are absent in excess of 20 percent of the total class hours may be dropped from class. The grade assigned by the instructor upon dropping a student for non-attendance shall be in accordance with Regulation 4020.3. Such students may be reinstated only at the discretion of the instructor for extenuating circumstances. Extenuating circumstances shall be defined as reasons for absence beyond the control of the student. Typical examples of such circumstances would be extended illness, hospitalization, court appearances, or death in the immediate family. 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. The participation in an audited class is subject to the discretion of the instructor. Students may audit a specific course only once and shall be limited to auditing two courses per term. Audited units shall be included in determining student unit load maximums. However, audited units shall be excluded in determining

student status for credit unit load for financial aid, scholarships and athletic eligibility.

All official restrictions to enrollment shall apply to auditors, including placement and prerequisite requirements. Priority in class enrollment shall be given to students taking the course for credit. Auditors may enroll only after the conclusion of the open enrollment period and before the end of the fourth week of class for a 16-week course or equal percentage of the course length. The fee for auditing a class shall be in accordance with the California State code and any materials fees that are ordinarily required for the course. Students enrolled in classes to receive credit for ten or more units shall not be charged a fee to audit three or fewer units per semester. Fees are to be paid before auditing the course, and fees are non-refundable. Auditors shall not be permitted to change their enrollment status in order to receive credit for the course. Regularly enrolled students may not change to audit status. Auditors shall not be permitted to earn credit by examination for an audited course

Grading Regulations

Grading System - Final grades are issued after the end of the 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 G.P.A.); NP, no pass (less than satisfactory-units not counted in G.P.A.); RD, report delayed means a grade has not been submitted by the instructor. Courses numbered in the 600-band do not award a grade.

Make-Up Grades for Incomplete Work

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

The instructor gives the grade of I and indicates the grade to be assigned in the event the student does not complete the required work within the timeline given on the incomplete grade contract. The grade must be A, B, C, D or F except that P and NP grades may be assigned where the course provides for grading on this basis and the student has elected to be graded on the P/NP basis by the appropriate deadline. This grade shall be based on the total re-

quirements for the course and a grade of W may not be assigned. Once an Incomplete is assigned by the instructor a student is not eligible to enroll in the same class until the incomplete is resolved.

Petitions to change these grades or to exceed the one-year make-up period must first be approved by the instructor and then submitted to the Grade Review Committee for final disposition. Please see LBCC's Administrative Policy and Regulation 4021 regarding all requirements for Incomplete at www.lbcc.edu/Policies/regulations.cfm.

Withdrawal

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

1. Students withdrawing or being dropped after the final limit for 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.
2. Full semester-length Classes – Drops before the Census will not record the drop. Withdrawals on or after the census day will be recorded as a withdraw (W). After the seventy-five (75) percent mark of a class a student must be issued a grade.
3. Students may petition for a W grade after the final limit for W only for extenuating circumstances beyond the control of the student, such as verified accident or illness. Petitions must be reviewed and approved by the Grade Review Committee.

Military Withdrawal

The grade of MW may be assigned to students who are members of an active or reserve military service and who receive orders compelling a withdrawal from classes. Upon verification of such orders, the grade of MW may be assigned at any time from the beginning of the period that 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.

Grade Points

A system of grade points is used to determine a student's standing for graduation or transfer. Grade points are assigned to the respective grades as follows: for each unit of

credit, the grade of A is assigned 4 points; B, 3 points; C, 2 points; D, 1 point; F, 0 points. P (pass) and NP (no-pass) units are not counted in one's GPA.

Change of Grades

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

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

Open Entry/Open Exit 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 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. For courses designated as non-repeatable (which is most courses), a student can only repeat the course under the following circumstances:

1. To alleviate substandard work. When a mark of D, F, NP or W has been previously recorded in a course a student may petition to repeat the course. The student is limited to a maximum of three attempts in the course to earn a passing grade. The grade from the last time the course was repeated will be used for determining the grade point average regardless of whether the last grade is higher or lower than the grade earned on previous attempts. The grade for the earlier course and the repeated course shall both be recorded on the student's permanent record, ensuring a true and complete academic history.
2. 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 there has been a significant lapse of time (36 months) 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 grade of the earlier course and the repeated course shall both 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, scholarship and/or athletics. Unit credit is allowed only once. Neither credit nor grades shall be allowed for unauthorized repeated courses.

3. Legally Mandated: A Student will also be allowed to repeat courses in which the student has previously earned a grade of A, B, C, or P when it is necessary for the course to be repeated in order to meet legally mandated training requirement(s) or conditions of continued paid or volunteer employment. Enrollment under this provision is limited. Documentation supporting the legally mandated training is required and must be submitted to the Admissions and Records Office.
4. Change of Industry Standard/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 it is necessary for the course to be repeated in order to maintain licensure or if an industry standard has changed significantly since the course have been taken, and the student needs the skills in order to keep or get employment. Documentation supporting the licensure or change in industry standard is required and must be submitted to the Admissions and Records Office.

It shall be the student's responsibility to ensure that the repetition of a course is authorized by these regulations. Any student who is determined to be repeating a course when not authorized to do so shall be administratively removed from the class. Credit by examination nor courses in the 600-number band (noncredit) are not subject to the course repetition rules.

Academic Renewal

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

- The student must have completed 24 units at Long Beach City College with at least a 2.0 cumulative GPA subsequent to the term to be disregarded.
- At least (1) calendar year must have elapsed from the time grades to be disregarded were earned.

- Courses to be disregarded shall be on a semester (or term) basis. All courses in the designated semester will be ignored in determining the requirements for graduation, including GPA, field of concentration, honors, general education and units. Any courses thus ignored, which would otherwise meet a particular requirement, will have to be fulfilled by retaking a course or by other alternative educational means.
- Only a maximum of two semesters (or terms) may be disregarded.
- All courses shall remain on the official record. The transcript shall be appropriately annotated to indicate that academic renewal has been applied, including the specific semester(s) (or terms) that were disregarded.
- Academic Renewal by Long Beach City College does not guarantee that other institutions will honor this action. It is the student's responsibility to ensure that his/her transfer institution will approve of academic renewal from Long Beach City College.
- Once a certificate or degree is posted at Long Beach City College, academic renewal will not be available.

Academic and Progress Probation

1. A student shall be placed on probation whenever the student's academic record indicates any of the following conditions:
 - a. The student's grade point average falls below (C) in all units graded over the 4.0 grading scale after the student has attempted more than 12 units at Long Beach City College.
 - b. After enrolling in a minimum of 12 units at Long Beach City College, the student has completed less than one-half of all units in which the student has enrolled as reflected in the academic record.
2. For the purposes of section 1.b, 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.
3. Students on academic and/or progress probation shall be subject to Counseling Intervention include the following provisions:
 - a. Meeting with a counselor in the Counseling Department, DSPS or EOPS;
 - b. Completing a student "Strategy for Success" contract and/or an Educational Plan;
 - c. Being limited to a maximum of 12 units each semester until the student is off probation; and
 - d. Completing the sequence of basic skills courses in the Educational plan.
4. Any student on probation shall be reclassified as "satisfactory" whenever the cumulative grade point aver-

age reaches or exceeds 2.0 (C) and the ratio of units-completed to units-enrolled is one-half or better based on the number of units indicated in section 1 above.

Academic and Progress Dismissal

- A student on probation for at least two semesters and who has not completed the Counseling Intervention and made up the deficiencies in the student's academic record shall be dismissed.
- Academic dismissal requires the student to complete at least three units during the semester with a semester grade point average of at least 2.0.
- Progress dismissal requires the student to enroll in at least three units during the semester. If enrolled in 3 to 5.5 units, the student must complete all units. If enrolled in six or more units, the student must complete 80% of the course.
- Academic and Progress dismissals are recorded at the end of the Spring semester.

Readmission After Dismissal

- Dismissed students will sit out the Fall semester immediately following their dismissal. Students desiring to return must submit an application and a readmission petition to the Admissions and Records Office by the second Friday of September to be considered for readmissions during the Spring semester. The Readmission Committee reviews all petitions.
- A dismissed student who is readmitted will be placed on probation and may be subject to further enrollment restrictions and requirements.

Scholarship Office/Foundation Financial Scholarships

Long Beach City College administers more than 1,000 scholarships each year. These scholarships are funded by campus and community organizations, local businesses and private donors. Scholarship Applications for the 2017-2018 school year start on Monday, August 29, 2016 through Thursday, December 8, 2016 at 4 PM. The Scholarship Office/Foundation Office is located in Building A-1001 at the Liberal Arts Campus.

Rotary Club Honors Scholarships

Each year the Long Beach Rotary Scholarship Foundation awards Rotary Honor Scholarships to Long Beach Unified High School students who will be attending Long Beach City College. Recipients must maintain a 3.0 GPA or higher and be enrolled in the Honors Program once they attend Long Beach City College. Scholarship applications are available in September at www.lbcc.edu/scholarships.

Outstanding Student Scholarship

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

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

Dean's List

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

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

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

Scholarship Society (Alpha Gamma Sigma)

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

Kappa Chapter is located at the Liberal Arts Campus. Information and applications are available at LAC in room M-226. Delta Chi Chapter is located at the Pacific Coast Campus. Information and applications are available in the Student Affairs Office, LAC E-206 (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 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 and Courses

The Honors Program serves motivated, high-achieving students who plan to transfer to competitive colleges and universities. The LBCC Honors Program offers courses in more than a dozen disciplines to serve intellectually ambitious students.

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

For detailed information about the LBCC Honors Program and the application process, call the Honors Program Office at (562) 938-4354 or visit us in the LAC Library (L-164) or on the web at www.lbcc.edu/honors.

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 degree and transfer requirements. Courses are offered in Anthropology, Astronomy, Art, Biology, Communications, Economics, English, Geology, History, Humanities, Learn, Math, Music, Philosophy, Political Science, Psychology, Sociology and Statistics. Please see the schedule of classes for current offerings.

Transfer Programs

Students who complete the Honors Program earn priority transfer consideration for admissions to such institutions as UCLA, UCI (Honors), and CSULB (Honors), and more than a dozen private colleges and universities.

Some Benefits of the Long Beach City College Honors Program:

- Honors scholarships for entering students from local high schools and for President's Scholars at graduation
- Priority registration
- Faculty mentors
- Honors academic counseling
- Informal degree checks
- Invitation to special honors forums, seminars, and social events
- Participation in Honors Research Conferences
- Facilitation of placement in four-year college Honors Programs

President's Scholar Honors

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

1. To qualify, a student must complete a minimum of five Honors courses with a 3.5 or higher GPA and must be transferring to a baccalaureate institution. In addition, a student must maintain a Long Beach City College cumulative GPA of 3.5 or higher with at least 80 percent of all units attempted in courses numbered 1-99.
2. The President's Scholar designation is entered on the transcript, next to the associate degree notation. In addition, qualifying students receive a gold seal on their diplomas and are given special recognition at commencement. President's Scholars are the first to receive their diplomas and are awarded medallions, which they wear at graduation.
3. As part of the President's Scholar award, students customarily receive a cash scholarship at graduation.

Honors Student

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

1. To qualify, a student must have completed a minimum of five Honors classes, with a 3.0 GPA or higher.
2. In addition, a student must maintain a Long Beach City College cumulative GPA of 3.0 or higher with at least 80 percent of all units attempted in courses numbered 1-99.

Admission to the Honors Program

To apply for admission to the Honors Program, a student must complete an online application and obtain two letters of recommendation.

To be eligible for the Honors Program, students must qualify for English 1 and meet the college's standard for reading proficiency (or place into READ 82 or READ 83). Students must have a GPA of at least 3.0. For further eligibility information, please visit www.lbcc.edu/honors.

Continued superior academic achievement is required to remain in the Honors Program. Honors students must maintain a minimum 3.0 GPA in addition to completing program requirements.

Course Credit and Class Preparation

To earn one unit of credit, students must spend a minimum of 18 hours for one semester (or its equivalent) 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 spend a minimum of 54 hours for one semester (or its equivalent). 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, the students must be currently enrolled in a qualifying occupational program and have the instructor's approval.

Pass/No Pass Courses and Grading

Some courses allow the student to change the grading option to pass/no pass instead of a letter grade. Students may change the grading base option online via student self-service, or by completing and submitting a pass/no pass form in the Admissions and Records Office. This process must be completed prior to the thirty percent point of the course. The deadline can be found in the class schedule. Students are required to do all work assigned and take examinations as though they were getting a grade. To receive a pass, a student must do the work equivalent to a C grade or better. Students seeking an associate degree are limited to 20 units on a pass/no pass grading basis. All courses not applicable to the degree (courses in the 800-band) shall be graded pass/no-pass.

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

Maximum Student Unit Load

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

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

- 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.

The requirements 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 and summer session, 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 the summer term and winter intersession. See high school concurrent application form for specific requirements.

Waiver of Maximum Unit Load Limitation

1. A student may request a waiver of maximum unit load limitation, except for the summer session and winter intersession. Under no circumstances will a student be permitted to exceed the defined maximum unit load limitation with waiver. The determination to waive the maximum unit load limitation is the responsibility of the Counseling Department and will be made only for extraordinarily capable students of proven academic ability and excellent past academic performance
2. To apply for a waiver, a student must meet the following regulations:
 - 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 counselor.
 - b. The student must apply to the Counseling Department for a waiver no later than two weeks prior to the first day of walk-in registration for the semester concerned. A waiver request after the two-week deadline requires the approval of the Dean of Counseling and Student Support Services.
3. The Vice President reserves the right to grant special waivers in unusual circumstances.
4. Students enrolled in more units than permitted for his or her classification by these regulations will have his or her program of studies reduced to the applicable allowable maximum by the Dean of Admissions and Records or designated representative

High School Concurrent Enrollment

Long Beach City College is proud to offer Concurrent enrollment to our local high school students. Concurrent Enrollment allows high school students to enroll in classes at Long Beach City College while they are still attending high school. Students first complete the Application for

Admission and receive the student's ID number, then take the assessment tests for English, reading and mathematics. If approved, enrollment fees will be waived. Students are responsible to pay the health fee, books, materials fees, parking and College Service Card fees. Please see www.lbcc.edu/Admissions/concurrent.cfm for the application and more information.

High School Pathways Project

Long Beach City College (LBCC) is involved in the High School Pathways Project, which is a joint program with K-12 districts throughout the region. The aim of the High School Pathways Project is to provide high school students with early college credit opportunities and assist them in seamlessly transitioning from high school to LBCC. The admissions process for students participating in the High School Pathways Project may differ from the regular high school concurrent enrollment process. Students interested in earning early college credit through pathway facilitated dual enrollment and/or articulated courses must adhere to the processes and criteria set forth by their K-12 district of origin and LBCC. For more information, please contact the Director of Career Pathways Support Services at careerpathways@lbcc.edu.

Credit by Advanced Placement

Long Beach City College 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 Long Beach City College's office of Admissions and Records. Course credit is granted for Advanced Placement examinations with a score of three, four or five in those instances in which the department concerned has determined that the material covered is comparable to a specific course offering within that department. Advanced Placement credit is granted for fulfillment of Long Beach City College degree requirements. However, when a student transfers to any other college or university, that institution routinely re-evaluates advanced placement units in accordance with its own internal policies. Thus, advanced placement units remain intact and do not transfer as Long Beach City College courses. A complete listing of AP Courses and A.A./A.S. Degree general education requirements can be found at this website: www.lbcc.edu/catalog.

Credit by Examination

Credit by Examination is a provision whereby a student who is enrolled in the college and is in good standing may, with departmental approval, take an examination for credit in a specific course. The student must have

completed at least 12 semester units at Long Beach City College and have the prior approval of the department head and school dean before being allowed to take the examination for credit. Exceptions to the 12-unit limitation must be approved by the office of the Vice President. 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. It is up to the department to determine how many times credit by examination is offered to an individual student per semester and how many times students are allowed to attempt to pass the exam.

1. In addition, the department concerned also determines specific standards of student eligibility. The method of evaluation, including a copy of any written exam or a description of its contents, must be approved by the department and kept on file in the department and the office of the School Dean. For courses identified in the High School Articulation Project, a description of the contents of the examination, as developed and approved in the articulation process, must be kept on file in the department.
2. Students who take an exam for credit will be given the grade earned. For high school articulated courses, they will be given the grade earned or receive a "Credit" depending on the method of grading for the course; if they do not pass the examination, there will be no notation made on the transcript and no credit awarded. Units earned through Credit by Examination may not be counted toward the 20-unit residence requirement for the associate degree.
3. A fee will be charged to take Credit by Examination. The fee will be waived for participants in the High School Pathways Project. A complete listing of the credit by exam opportunities can be found at this website: www.lbcc.edu/catalog.

Credit by Directed Study Program

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

1. Students must have earned at least a cumulative 3.0 (B) grade point average.
2. Students must have completed 24 units, at least 12 of which must be earned at Long Beach City College. Credit applied from other colleges must be supported by official transcripts on file with the Admissions & Records Office.
3. Prior approval of the faculty mentor (the faculty

member who directs the study), Department Head and School Dean must be obtained before commencing work on the project under the mentor's direction. Failure to do so may result in denial of credit for the project.

4. Directed Study may not parallel or equate with work in an approved course within the department. It is expected that Directed Study is of an advanced nature and goes beyond the treatment in an approved course or series of courses. Work involving simply the production of a book report or term paper is not deemed an appropriate project.
5. While the student's work is of an autonomous nature, it is expected the student will meet at regular intervals with his/her faculty mentor to discuss progress and seek guidance and direction.
6. The product of the directed study will be a written report or an equivalent project that demonstrates an amount of work equal to an approved course of the same number of units—54 hours of work for each unit of credit earned.
7. The project will be evaluated on a standard comparable to that used in the courses within the department granting the credit. The project will be evaluated by the faculty mentor and kept on file in the department office. The completed form will be forwarded through the approval process.
8. One to three units of credit will be granted upon satisfactory completion of a project. Each unit of credit shall be equal to 54 hours of work.
9. Units will be placed on the student's transcript as Directed Study 99 in the subject matter area.
10. The student shall earn no more than six units in directed study courses.

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

Credit by College-Level Examination Program (CLEP)
Long Beach City College recognizes the CLEP of the College Board.

1. Students are required to order official copies of their College Board transcripts with the appropriate CLEP scores and have the transcripts sent to Long Beach City College's Office of Admissions and Records.
2. Specific course credit will be granted for the 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.

3. In situations where comparable courses are not offered by a department, the CLEP scores may be applied toward general education and/or elective unit requirements.
4. CLEP credit is granted for fulfillment of Long Beach City College degree requirements. However, when a student transfers to any other college or university, that institution routinely reevaluates CLEP units in accordance with its own internal policies for CLEP. Thus, CLEP units remain intact and do not transfer as Long Beach City College courses.
5. CLEP credit for the Associate Degree for Transfer is approved through the general education certification for transfer to colleges or universities that accept Long Beach City College's certification.

Credit by International Baccalaureate (IB) Assessment
Long Beach City College recognizes the International Baccalaureate Assessment.

1. Students are required to order official copies of their IB transcripts with the appropriate IB scores and have the transcripts sent to Long Beach City College's Office of Admissions and Records.
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 and/or elective unit requirements.
4. IB credit is granted for fulfillment of Long Beach City College degree requirements. However, when a student transfers to any other college or university, that institution routinely reevaluates IB transcripts.

Transfer Credit from other Colleges, Universities and Institutions

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

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

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

Reciprocity of General Education Courses

Courses from other regionally accredited colleges and universities can be used towards the fulfillment of general education at Long Beach City College under Plan A. Courses approved for a specific general education area at another institution will be honored for the comparable general education area at Long Beach City College.

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 & Nutrition and Theater Arts will need to be evaluated and approved by the department as an activity course.

Foreign Institutions

Acceptance of transfer credit from foreign schools 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 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 the corresponding course at Long Beach City College.
- Second party credits will not be accepted. Example: School A, whose credits we would normally accept, has itself accepted credits from School B. We will not accept credits from School B through School A, but only directly from School B if otherwise acceptable.
- Courses from other regionally accredited colleges and universities can be used towards the fulfillment of general education at Long Beach City College under Plan A. Courses approved for a specific general education area at another institution will be honored for the comparable General Education area at Long

Beach City College. Courses from schools without general education subject areas or proficiencies such as Information Competency will be evaluated for equivalency in order to satisfy that area.

- Where equivalency of transfer credits is questionable, the Records Office shall solicit the assistance of the School and College Relations Office and the appropriate School Dean or Department Head in determining whether or not a transfer credit is equivalent to our 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 ours. Students in these situations may apply for credit by examination.

Credit for Cooperative Work Experience Education

Long Beach City College 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 job.

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

Students must be enrolled in a career and technical education (occupational) 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.
2. Completed or be concurrently enrolled in occupational course in the same program.

Students must also participate in on-the-job learning experiences that contribute to occupational or education goals and have the approval of the professor.

International Students who want to enroll in Cooperative Work Experience Education must get a release from the International Student Office prior to enrolling in Work

Experience. The office is located at the Liberal Arts Campus, building “E”, (Student Center). Telephone: (562) 938-4745.

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

Additional information on the program and enrollment is available at the Academic Services Office, located on the Liberal Arts Campus.

Credit for Educational Experience in Military Service

Long Beach City College presently requires three units in a combination of physical education and health education classes for the associate degree. Veterans may be granted these three units of credit toward graduation if they served on active duty for at least 12 continuous months. The student who needs these credits for a degree must have a copy of his/her DD-214 and file number from the Veterans’ Administration to request such credit. Please contact the Veterans Affairs Office at PCC in room GG-102 for additional assistance.

If a veteran feels his/her military schooling provided sufficient knowledge in a particular subject area and this credit is needed for graduation or advanced placement, he/she should refer to the section, “Credit by Examination.” Each Department Head handles the particular subjects under his/her administration. Not all departments allow Credit by Examination so check the eligibility requirements carefully, then contact the Department Head involved to make the necessary arrangements for an exam, if permissible.

Policy on Academic Honesty

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

Academic Freedom

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

Policy on Open Courses

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

Creating a Collegiate Environment In the Classroom

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

1. Respect for the Instructor - This means arriving to class on time, not leaving early, bringing appropriate materials, not speaking with other students while a lecture is in progress, not bringing food or drink to the classroom, not being loud, boisterous or argumentative.
2. Respect for Other Students - This means not interfering with the rights of others to listen and participate, not being disrespectful, not using inappropriate language or harassing others in any way.
3. Academic Honesty - Lack of honesty in the classroom is considered a very serious offense. Any form of cheating on tests, turning in work which is not one’s own (plagiarism), talking during tests, furnishing false information to instructors or knowingly misrepresenting oneself to the college is grounds for disciplinary action. The consequences of cheating are severe and may include the possibility of expulsion.
4. Instructor’s Rights - An instructor has the right to remove a student from class at any time he/she considers a student’s actions to be interfering with a proper collegiate environment. The instructor may also refer the incident to the Director of Student Discipline & Student Life for disciplinary action as warranted.
5. Student’s Rights - All students have a right to due process. If classroom conflicts occur, discuss them with your instructor during his/her office hours. Additional resources for help include the Department Head, School Dean and Vice President of Student Support Services or Designee.

Student Conduct

Creating a proper campus environment is also of great importance to assure academic and individual success. The Board of Trustees has established campus-wide standards of student conduct and simple campus rules, which are enforced at all times. These are particularly important in large common areas, such as the cafeteria, bookstore, vending, campus offices, College Center, Student Center, Activities Center, campus quads, athletic areas and other highly frequented areas. All students must conform to the Standards of Student Conduct, which have been established by students and college staff and have been approved by the Board of Trustees. The Standards of Student Conduct are listed below and are strictly enforced by the Office of Student Affairs.

Standards of Student Conduct

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

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

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

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

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

Campus Rules

1. Smoking is prohibited in all buildings.
2. Eating and drinking are prohibited in all buildings except where food is sold or is part of an approved and scheduled activity.
3. Gambling on the campus is prohibited. Gaming is restricted to the PCC Student Lounge and the LAC Activities Room.
4. Animals not indigenous to the campus grounds are not allowed on campus. Exceptions shall be made for certified companion animals and those animals previously approved by college officials for specific educational purposes.
5. Literature to be distributed must be approved in the Office of Student Life.
6. Children are not allowed on campus unless under the supervision of a parent/guardian or are officially enrolled in an approved college program. Children may not attend classes with a parent/guardian unless the course is specifically designed to include children. Children must be supervised so educational activities are not interrupted and may not be left unattended

in common areas, such as the library, computer labs, cafeterias, quads or lounges.

7. Unauthorized vehicles (vehicles without a parking permit) must use visitor parking or purchase a one-day parking permit.
8. Students are required to be fully attired, including shirts or blouses and footwear.
9. Skateboarding, skating and bike riding are prohibited on campus grounds, officers will cite any violators.
10. The use of radios, electronic recording devices, tape or compact disc players without headphones is prohibited on campus except in connection with approved campus/classroom activities.
11. Electronic recording devices may not be used in classrooms without the permission of the instructor.

Summary Suspension

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

1. **Removal from Class by Instructor** - Any instructor is authorized to remove a student from his/her class for the class meeting where the infraction occurs, as well as the next scheduled class meeting. The instructor shall immediately report the removal of the student to the Vice President of Student Support Services or designee, including the reason for removal, for appropriate action.
2. **Summary Suspension by Administration** - A summary suspension is an administrative action for the purpose of removing any immediate tension or threat to the well-being of students and staff in order to assure that an appropriate academic environment exists. It is also for the purposes of further investigation of reported inappropriate conduct and to determine what disciplinary action, if any, is appropriate. The Director of Student Discipline & Student Life or designee may summarily suspend a student for good cause for a period of up to 10 instructional days to ensure that the intended purpose is served.

Disciplinary Action

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

1. **Warning** - Notice to the student that continuation or repetition of specified conduct may be cause for other disciplinary action.
2. **Reprimand** - Notice to the student in writing that officially recognizes a violation of the standards of student conduct or campus rules. The reprimand admonishes the student to avoid future infractions in order to avoid additional formal action.
3. **Probation** - An official disciplinary action, which returns the offender to the college community on a promise of appropriate future behavior. Any violation of this promise mandates formal action.
4. **Social Suspension** - Social Suspension limits a student's attendance on campus to scheduled classroom hours. Other privileges can be set forth in the Notice of Social Suspension for a specified period of time. The imposition of social suspension involves notification in writing of the reason for social suspension to the student(s) or president of the student organization involved.
5. **Disciplinary Suspension** - Disciplinary suspension follows a hearing based on due process of law. It shall be invoked by the College President, appropriate administrator, or other staff members designated by the President upon students for misconduct when other corrective measures have failed or when the seriousness of the situation warrants such action.
6. **Expulsion** - An expulsion is a long-term or permanent denial of all campus privileges including class attendance. The Board of Trustees may expel a student after a hearing by a campus body or upon recommendation of the Superintendent-President. Permanent expulsion and active prosecution shall automatically result for any student found to be in possession of a gun. Board action is not necessary in this instance.
7. **Restitution** - Reimbursement for damage or for misappropriation of property. Reimbursement may take the form of appropriate service to repair or otherwise compensate for damage.

GENERAL EDUCATION, TRANSFER & DEGREE/CERTIFICATE REQUIREMENTS



THIS SECTION INCLUDES INFORMATION ON:

- General Information
- List of Degrees and Certificates Offered
- Catalog Rights
- Admission Requirements to a 4-year institution
- General Education Philosophy and Patterns
- Requirements for Associate Degrees for Transfer and other Associate Degrees
- Requirements for Certificates

GENERAL INFORMATION

Long Beach City College degrees and certificates are proposed, developed, and implemented for the primary purpose of providing opportunities for students to reach their desired educational goals. Such goals include associate degrees, certificates of achievement and accomplishment in many career and technical education areas, and certificates in the noncredit program for adults seeking to finish basic education or learn English as a Second Language (ESL).

Long Beach City College 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 (field of study) requirements, general education requirements, and competency and/or admission requirements. Depending on the educational goal of the student, there are three options for the general education requirements listed later in this section as Plan A (Associate in Arts (A.A.), Associate in

Science (A.S.) degrees), Plan B (CSU transfer, and Associate Degrees for Transfer), and Plan C (UC transfer and Associate Degrees for Transfer). It is important for students to see a counselor early in their educational planning so that the right general education pattern may be chosen.

Long Beach City College offers three types of Certificates:

A **Certificate of Achievement** is defined as a course of study consisting of at least 18 units that is placed on a transcript.

A **Certificate of Accomplishment** is defined as a course of study consisting of less than 18 units that is not noted on a student's transcript. Certificates of Achievement and Accomplishment are in a specific occupational area. All Certificates of Achievement and Certificates of Accomplishment are reviewed by advisory committees comprised of representatives of the industry, students and faculty. This assures that programs meet the current and future industry needs.

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 vocation skills needed for immediate employment.

Long Beach City College offers degrees and certificates in the following disciplines (majors).

PROGRAM OF STUDY	Transfer Degree	Associate Degree	Certificate of Achievement	Certificate of Accomplishment	Certificate of Completion/Competency
Administration of Justice	X	X	X		
Criminal Forensics				X	
Public Services – TSA Associate				X	
Administrative Assistant		X	X		
Computer & Office Skills				X	
Microsoft Office				X	
Computing & Internet Literacy				X	
Business Digital Literacy				X	
Law Office Procedures				X	
Adv Trans Technology: Alternative Fuels		X	X		
Adv Trans Technology: Light/Medium Duty				X	
Adv Trans Technology: Heavy Duty				X	
Adv Trans Technology: Electrical Vehicles		X	X	X	
Alcohol and Drug		X	X		
Co-Occurring Disorders - Level One				X	
Alcohol & Chemical Dependency				X	
Anthropology	X				
Architectural Design		X	X		
Art		X			
Art History	X				
Studio Arts	X				
Fundamentals of Digital Media Arts				X	
Graphic Design				X	
Bakery and Pastry		X	X		
Biological Sciences		X			
Business					
Business Administration	X				
Business: Accounting		X	X		
Business: General Business		X	X		

Long Beach City College offers degrees and certificates in the following disciplines (majors).

Business: International Business		X	X		
Business: Management		X	X		
Business: Marketing		X	X		
Business: Foundations of Accounting				X	
Business: Foundations of Business				X	
Business: Foundations of International Business				X	
Business: Foundations of Management				X	
Business: Foundations of Marketing				X	
Business: Business Economics				X	
Business: Money and Banking				X	
Business: Logistics				X	
Child Development - Early Childhood Education	X	X	X		
CDCE: Assistant Teacher Certificate				X	
CDCE: Family Development				X	
Permit Specialization Area - Child Health and Safety				X	
Permit Specialization Area - Children with Exceptional Needs				X	
Permit Specialization Area - Family Child Care Certificate				X	
Permit Specialization Area - Infant/Toddler				X	
Permit Specialization Area - Early Literacy				X	
Permit Specialization Area - School Age				X	
Permit Specialization Area - Curriculum in Early Childhood Education				X	
Child Development - Special Ed		X	X		
College and Workforce Preparation					X
Communication	X	X			
Computer Networking & Security		X	X		
Microsoft Windows Networking Technician				X	
Cyber Security				X	
Computer Hardware Technician				X	
Computer Network Technician				X	
UNIX Network Administrator				X	
Computer Science		X	X		
Android App Developer				X	
Computer Technology		X	X		
Culinary Arts		X	X		
Customer Support		X	X		
Business Communications				X	
Data Entry				X	
Dance		X			
Database Management		X	X		
Database Specialist				X	
Android App Developer				X	

Long Beach City College offers degrees and certificates in the following disciplines (majors).

PHP Web Programmer				X	
Diagnostic Medical Imaging (Rad Tech)		X	X		
Computed Tomography				X	
Magnetic Resonance Imaging Technologist				X	
Dietetics					
Dietetic Service Supervisor		X	X		
Nutrition Assistant		X			
Formula Room Technician				X	
Digital Design and Publication		X	X		
Drafting - Architectural		X			
Drafting: Architectural - Core Skills			X		
Drafting: Architectural - Advanced Skills			X		
Drafting -Mechanical		X			
Drafting: Mechanical - Core Skills			X		
Drafting: Mechanical- Advanced Skills			X		
AutoCAD I, Fundamentals (108 Hrs)				X	
AutoCAD II, Advanced Certificate (108 Hrs)				X	
AutoCAD III, Visualization, Rendering, Animation (108 Hours),				X	
AD Professional Certificate (324 Hours)				X	
Electrical Technology		X	X		
Network Cabling Specialist				X	
Network Installation				X	
Network Installation and Design				X	
Traffic Signal Systems				X	
Solar Photovoltaics Installation and Design				X	
Engineering		X			
English	X				
Language & Literature		X			
Creative Writing		X			
ESL					
English for Everyday					X
Reading Skills for ESL Students					X
Family & Consumer Sciences		X	X		
Fashion Design		X	X		
Assistant Designer		X	X		
Fashion Design: Patternmaker			X		
Fashion Design: Samplemaker			X		
Fashion Merchandising		X	X		
Film		X			
Fire Science		X	X		
Floral Design		X	X		

Long Beach City College offers degrees and certificates in the following disciplines (majors).

Foreign Language		X	X		
Spanish	X				
Geography	X				
Geology	X				
History	X				
Horticulture		X	X		
Human Services		X	X		
Journalism	X				
Journalism - Newspaper/Magazine Emphasis		X			
Journalism - Public Relations Emphasis		X			
Journalism -Publication Specialist Emphasis		X			
Photojournalism			X		
Kinesiology	X	X			
Athletic Coaching				X	
Personal Trainer				X	
Library Technician		X	X		
Math	X	X			
Medical Assisting: Administrative/Clinical		X	X		
Medical Assisting: Administrative Option			X		
Medical Assisting: Clinical Option			X		
Emergency Medical Technician			X		
Medical Insurance Billing				X	
Phlebotomy				X	
Metal Fabrication Technology		X			
Metal Fabrication Technology: Core Skills			X		
Metal Fabrication Technology: Advanced Skills			X		
Robotic Welding Automation				X	
Music	X	X			
Nursing LVN to RN		X			
Nursing LVN to RN (30 Unit Option)			X		
Nursing: RN (ADN)		X			
Nursing: Vocational		X	X		
Nursing Assistant				X	
Home Health Aide				X	
Philosophy	X				
Physical Sciences		X			
Political Science	X				
Psychology	X				
RTV Producer		X	X		
Radio/Television Multimedia Production			X		
RTV: Broadcast News		X	X		

Long Beach City College offers degrees and certificates in the following disciplines (majors).

RTV: Performance		X	X		
Social Sciences		X			
Sociology	X				
Theater Arts					
Theater Arts: General		X			
Theater Arts: Acting Academy		X			
Vocational Media - Film Acting				X	
Vocational Media - Commercials				X	
Vocational Media - Voice Over				X	
Web Development		X	X		
PHP Web Programmer				X	
Android App Developer				X	
Mobile/Web Site Developer				X	

CATALOG RIGHTS

To earn a degree or certificate at Long Beach City College, students must maintain continuous enrollment and attendance. This guarantees students' catalog rights. Catalog rights are defined as guaranteeing students the specific degree requirements of the year they first enrolled.

A student may use that initial catalog year or any subsequent catalog until the student petitions for graduation, if the student has remained in continuous attendance with continuous enrollment. Continuous Enrollment requires that students must maintain enrollment for at least one semester or two quarters in any one calendar year. Continuous Attendance requires that students attend at least one class every semester.

In order to maintain catalog rights at Long Beach City College, after the initial semester of enrollment, students must take at least one course every semester at LBCC or at any other accredited higher educational institutions after having initially enrolled at LBCC.

Acceptable grades that will satisfy continuous enrollment are A-F, CR and NC. Coursework transferred from other institutions will be evaluated for satisfaction of all Associate Degree requirements, including the proficiency requirements and for certificates of completion. Military personnel who had to withdraw with grades of MW because of military orders will be given one academic year after the end of the military conflict to return to college without losing their continuous enrollment status and catalog rights.

ADMISSION REQUIREMENTS TO TRANSFER

Admission Requirements to Transfer to a California State University

While attending Long Beach City College, students planning to transfer to the California State University system should follow the recommended pattern of general education-breadth requirements listed in Plan B.

In addition, students should take the specific lower division courses required for their chosen major. Consult a counselor for assistance in identifying these requirements.

Lower Division Transfers - Undergraduate transfer applicants with fewer than 56 transferable semester units of study may qualify for regular admission if they are eligible as freshmen and have been in continuous attendance since high school graduation; or were eligible as freshmen except for the subject requirements and have completed appropriate

college courses in the missing subjects (all transfers must have a 2.0 minimum grade point average and be in good standing at last college attended). Applicants not eligible as freshmen cannot be admitted as lower division transfers. They must establish eligibility by completing the requirements for upper division transfers.

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

- 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 semesters (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 if they have completed 60 transferable semester units and have completed appropriate college courses to make up any missing college preparatory subject requirements. (It is also possible for an applicant eligible as a freshman to be admitted as an upper division transfer). The missing college preparatory subject requirements may be made up in the following ways:

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

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

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

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

Admission Requirements to Transfer to a University of California

Students planning to transfer to the University of California are encouraged to follow the recommended pattern of general education-breadth requirements listed in Plan C.

However, some high-unit majors may have other admission requirements.

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

(Note: There are changes in the "A-G" subject requirements for students who graduated from high school June 1986 and later). The options are as follows:

1. If a student was eligible for admission to the university when he/she graduated from high school, that student may transfer at any time provided that a "C" average in transferable community college courses has been maintained.
2. If a student was not eligible for admission after high school because subject requirements were not met, the student may take college courses in the subjects which were missed and transfer upon completion. Students need a grade of "C" or better in each of these required courses and an overall "C" average in all transferable college course work. If less than 12 semester or quarter units of transferable college coursework are completed, the examination requirements for freshman applicants must also be satisfied.
3. If a student was not eligible for admission after high

school graduation because they did not achieve the required score on the Eligibility Index and may also have lacked the required "A-G" subjects, the student must:

- a. Complete 60 semester units of transferable college credit with a grade point average of at least 2.4 and satisfy either (2) or (3) below.
- b. Complete appropriate college courses with a "C" grade or better in the "A-G" subjects that were lacking. (The university will waive up to two units, i.e., two academic years, of the required high school coursework except in math and English).
- c. Complete with grades of "C" or better the following college courses:
 - 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 prior to June 1986, the math course must have elementary algebra as a prerequisite).
 - 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.

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

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

GENERAL EDUCATION

Philosophy of General Education

General Education takes its character from an extensive list of disciplines whose integration generates a broad field of common knowledge that is indispensable to students. General Education concerns itself with how disciplines form and reform their basic conceptualization and how these basic conceptualizations then link with one another to create this general field of understanding. In so doing, General

Education justifies its course of study by the foundation of knowledge it imparts, which becomes an essential preparation for specialization as students move into their major fields of study. This ongoing process of forming, reforming, and integrating these basic conceptualizations allows students to achieve a synthesis of skills, comprehension, and information about oral and written communication, physical and natural sciences, humanities, the arts, and the social sciences, health, and wellness, and such process is contemporary with any age.

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

Most importantly, since education is a life-long process, general education should lead to better self-understanding and the capacity to adapt, respond, and grow in a changing world.

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

CAREER & TECHNICAL EDUCATION GENERAL EDUCATION

Long Beach's General Education philosophy also applies to its occupational programs, also called career and technical education (CTE). Yet, the General Education requirements for career and technical education degrees is different because of the way these courses fit into a career and technical education program. Career and technical education students need a general education program that prepares them for the workforce and/or transfer to a four-year institution. Such preparation has to take into consideration three basic facts: career and technical education programs may be high-unit majors; the academic nature of general education needs to fit into a training program that prepares a student for work; and the quality and intensity of such college courses should help to build the scope of knowledge and self-confidence of a career and technical education student.

Since the certificates being offered assures an employer that a student is prepared to take up full-time employment in a skilled occupation, the unit load for a career and technical education student may exceed 18 college credits. Also, since such education is taken at a two-year institution, the expectation is that a student will finish in a reasonable length of time.

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

General Education Outcomes (GEOs)

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

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

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

1. **Democracy:** Develop and promote knowledge and skills to become informed participants who play an active and effective role in our society.
2. **Cultural Sensitivity/Diversity:** Appreciate and promote respect of individual differences that embraces the complex ways people integrate into their societies, cultures, and subcultures in order to participate in both our society and in diverse group activities.

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

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

1. **Teamwork and Collaboration:** Cooperate and work effectively with individuals and groups using appropriate social skills.
2. **Information Competency:** Find, use, manage, evaluate, and convey information efficiently and effectively.

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

1. **Science Literacy:** Apply the scientific method to gain an evidence-based understanding of phenomena.
2. **Numeric Literacy:** Apply arithmetic and mathematical skills necessary to solve everyday problems.

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

General Education Patterns

Students have three general education patterns (Plan A, B, and C) from which to choose but are strongly encouraged to consult with a counselor for assistance in selecting the general education pattern that is most appropriate for their educational goal. Under Plan A, a student can complete the general education for an Associate Degree and may combine it with one of Long Beach City College's Certificate Programs or prepare for transfer. If a student wants to complete an Associate Degree and transfer to a B.A. /B.S. program, then the general education (G.E.) patterns Plan B or C should be followed. Plan B will prepare students for transfer to the California State University System. Plan C will prepare students for transfer to either the University of California or the California State University systems. General Education forms are in Appendix A.

Although the associate degree recognizes the completion of lower-division course requirements, it does not guarantee ad-

mission to a four-year college or university. Students are encouraged to see a counselor early in their academic career to establish an educational plan to meet their educational goals.

While a course might satisfy more than one general education requirement, it may not be counted more than once for these purposes. However, courses may be used to satisfy both a general education and a major requirement.

Students should be aware that starting one plan doesn't preclude changing to another. It is possible to change plans with proper counseling.

Students should be advised that the associate degree comprises two major components: a general education pattern and a major field of preparation.

A transfer program comprises three major components: Admission requirements, a general education requirement and a major field of preparation.

Plan A: Completion of Long Beach City College General Education Requirements

Plan A sets the general education requirements for the Associate of Arts (A.A.) and Associate of Science (A.S.) Degrees. The minimum general education requirements for the A.A. degree is 25 units, while the minimum general education requirements 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 Degree also is the one most commonly earned in higher unit academic and career and technical education programs. Those students who complete the Associate Degree, and who later choose to transfer have to make up the difference in units between Plan A and Plans B or C when they transfer to a four-year institution. Plan A, however, is designed so that a student may select courses to meet the Associate Degree requirements while completing as many units as possible that are also located on the CSU and UC patterns. Hence, all three plans are designed to complement each other and minimize the total unit load of our students.

Long Beach City College 2016-2017 Associate Degree (A.A./A.S.) General Education Requirements - PLAN A

LEGEND

- ◆ Denotes laboratory class.
- Indicates course limitations may exist. For an explanation of limitation, please refer to the UC Transfer Course Agreement, which is available on the ASSIST web site at www.assist.org.
- ◐ Cross-listed courses. A cross-listed course is interdisciplinary and is the same course as its cross-listed counterpart. A cross-listed course CANNOT be used in more than one discipline NOR can it be used to certify more than one area on Plan C:

ECON 5 = GEOG 5: The Global Economy

HUMAN 1/1H = SOCSOC 1/1H: Comparative World Cultures/
Honors CWC

HUMAN 3 = PHIL 3: Intro to Issues/Phil, Psych & Religion

HUMAN 7 = SOCSOC 7: American Pluralism and Identity

GRADUATION PROFICIENCY REQUIREMENTS

Mathematics

A qualifying score on the LBCC Assessment Test which places a student in

MATH 37 Finite Mathematics (3)

MATH 37H Honors Finite Mathematics (3)

MATH 40 Trigonometry (3)

MATH 45 College Algebra (4)

STAT 1 Elementary Statistics (4)

STAT 1H Honors Elementary Statistics (4) or higher; or successful completion with a grade of "C", "P" or higher in a college math course at the level of

MATH 120 Geometry (4)

OR

MATH 130 Intermediate Algebra (5)

OR

MATH 130A Intermediate Algebra, Part A (3)

OR

MATH 140 Algebra Readiness (6)

OR

MATH 125 Stat Path (6)

OR

MATH 115 Applied Math (4) or higher.

Reading

Satisfying this proficiency may be achieved by any one of the following:

- A qualifying score achieved through multiple LBCC assessment measures OR
- Completion of

READ 82 Proficient Reading (4)

OR

READ 83 Power Reading (4)

("C", "P" or better) at LBCC (courses taken at other colleges may be individually reviewed for equivalency by the Reading Department Chair)

OR

- A Bachelor's Degree from an accredited college or university.

Writing

Complete ENGL 1 or 1H with a grade of "C" or better.

ENGL 1 Reading and Composition (4)

ENGL 1H Honors Reading and Composition (4)

Information Competency Requirement

Information Competency is the ability to find, evaluate, use and communicate information in all its various formats. It combines aspects of library literacy, research methods and technology proficiency.

Students must complete ONE course from INFORMATION and ONE course from TECHNOLOGY (courses MUST be completed with a grade of "C" or better):

Information

ENGL 1 Reading and Composition (4)

ENGL 1H Honors Reading and Composition (4)

ENGL 3 Argumentative and Critical Writing (4)

ENGL 3H Honors Argumentative & Critical Writing (4)

LIB 1 Information Competency (2)

LIB 3 Library, Technology and Internet Literacy (3)

Technology

COSA 1 Computer Information Competency (1)

COSA 5 Microsoft Windows Operating System (3)

COSA 20 Microsoft PowerPoint for Windows (3)

COSA 25 Microsoft Access for Windows (4)

COSA 30 Introduction to Computers (3)

COSA 35 Microsoft Office (4)

COSA 50 Intro to IT Concepts & Applications (4)

COSK 200 Beginning Keyboarding and Document Production (3)

CPAS 1 Using the Mac as a Tool for Learning (1)

CPAS 10 Advanced Computer Skills for Learning (2)

AREA REQUIREMENTS

ENGLISH COMPOSITION

One Class Required (3 units minimum)—choose from:

ENGL 1 Reading and Composition (4)

ENGL 1H Honors Reading and Composition (4)

COMMUNICATION AND ANALYTICAL THINKING

One Class Required (3 units minimum)—choose from:

BCOM 15 Business Communications (3)

COMM 10 Elements of Public Speaking (3)

COMM 10H Honors Elements of Public Speaking (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)
COSP 8	Visual Basic Programming (4)
COSP 10	Intro to C# Programming (4)
COUNS 2	Making a Difference with Mentoring (3)
CPAS 2	Critical Thinking Using Computers (3)
CS 11	Computer Programming: C++ I (4)
CS 21	Java: Computer Science 1(4)
ELECT 225	Algebra and Trigonometry for Technicians (4)
ENGL 3	Argumentative and Critical Writing (4)
ENGL 3H	Honors Argumentative & Critical Writing (4)
ENGL 4	Critical Analysis of Literature (4)
ENGL 4H	Honors Critical Analysis of Literature (4)
LIB 3	Library, Technology & Internet Literacy (3)
MATH 27	Probability & Statistics for Elementary Teachers (3)
MATH 28	Mathematics for Elementary Teaching I (3)
MATH 37	Finite Mathematics (3)
MATH 37H	Honors Finite Mathematics (3)
MATH 40	Trigonometry (3)
MATH 45	College Algebra (4)
MATH 47	Calculus for Business (3)
MATH 50	Precalculus Math (5)
MATH 50H	Honors Precalculus (5)
MATH 60	First Calculus Course (5)
MATH 60H	Honors First Calculus Course (5)
MATH 70	Second Calculus Course (5)
MATH 70H	Honors Second Calculus Course (5)
MATH 80	Third Calculus Course (5)
MATH 84	Intro Differential Eqns and Linear Alg (5)
MATH 120	Geometry (4)
MATH 130	Intermediate Algebra (5)
MATH 130A	Intermediate Algebra, Part A (3)
MATH 130B	Intermediate Algebra, Part B (3)
PHIL 11	Critical Thinking (3)
PHIL 12	Introduction to Logic (3)
PHIL 22	Symbolic Logic (3)
READ 82	Proficient Reading (4)
READ 83	Power Reading (4)
READ 84	Analytical Reading (3)
STAT 1	Elementary Statistics (4)
STAT 1H	Honors Elementary Statistics (4)

NATURAL SCIENCES

One Class Required (3 units minimum)—choose from:

PHYSICAL SCIENCES

ASTR 1	Astronomy (3)
ASTR 1H	Honors Elementary Astronomy (3)
ASTR 1L	Astronomy Laboratory (2)
CHEM 1A	General Chemistry (5.5)
CHEM 1B	General Chemistry (5.5)
CHEM 2	Elementary Chemistry (4.5)
CHEM 3	Intro to Gen, Organic & Biochemistry (5)
CHEM 12A	Organic Chemistry (5.5)
CHEM 12B	Organic Chemistry (5.5)
ENVRS 1	Energy for the Future (3)
GEOL 1	General Physical Geology (4.5)
GEOL 1H	Honors General Physical Geology (4.5)

GEOL 2	General Geology, Physical (3)
GEOL 2F	Geology Field Trips (1)
GEOL 2L	General Geol, Physical Geol Lab (1.5)
GEOL 3	Historical Geology (4.5)
GEOL 3H	Honors Historical Geology (4.5)
GEOL 4	Field Geology (2)
GEOL 5	Environmental Geology (3)
GEOL 7	Field Studies: Western Environments (2)
GEOL 16	Field Techniques/Geol: So Calif Deserts (3)
GEOL 17	Geology of Southern California Deserts (2)
GEOL 18	Geology of California (3)
PGEOG 1	Physical Geography (3)
PGEOG 1L	Physical Geography Lab (1.5)
PGEOG 2	Weather and Climate (3)
PHYS 2A	General Physics (4)
PHYS 2B	General Physics (4)
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)

ANAT 1	Human Anatomy (4)
ANAT 41	Anatomy & Physiology (5)
ANTHR 1	Physical Anthropology (3)
ANTHR 1H	Honors Physical Anthropology (3)
BIO 1A	Biology for Science Major (5)
BIO 1B	Biology for Science Majors (5)
BIO 2	General Microbiology (5)
BIO 5	Plant Biology (4)
BIO 11	Environmental Problems of Man (3)
BIO 20	Marine Biology (4)
BIO 20H	Honors Marine Biology (4)
BIO 22	The Marine Environment (3)
BIO 25	Biology and Society (3)
BIO 28	Field Natural History of the Mountain (2)
BIO 30	Wildlife Biology (4)
BIO 31	Birds (2)
BIO 37	Field Natural History: South Calif. Desert (2)
BIO 41	Contemporary Biology (3)
BIO 41H	Honors Contemporary Biology (3)
BIO 41L	Contemporary Biology Lab (1)
BIO 41LH	Honors Contemporary Biology Lab (1)
BIO 60	Human Biology (4)
BIO 60L	Human Biology 1 Laboratory (1)
BIO 61	Human Biology 2 (3)
PHYSI 1	Human Physiology (5)

SOCIAL SCIENCES

One Class Required (3 units minimum)—choose from:

ANTHR 2	Cultural Anthropology (3)
ANTHR 2H	Honors Cultural Anthropology (3)
ANTHR 3	Intro to Archaeology (3)
ANTHR 3H	Honors Intro to Archaeology (3)
CDECE 45	Child & Adolescent Development DS 1(3)
CDECE 47	Human Development (3)
ECON 1	Macro Economic Analysis (3)
ECON 1H	Honors Macro Economic Analysis (3)

ECON 2	Micro Economic Analysis (3)
ECON 2H	Honors Micro Economics Analysis (3)
ECON 3	General Concepts in Economics (3)
ECON 4	Contemporary Economic Issues (3)
● ECON 5	The Global Economy (3)
FD 32	History of Fashion (3)
GEOG 2	Elements of Cultural Geography (3)
● GEOG 5	The Global Economy (3)
GEOG 40	World Regional Geography (3)
GEOG 48	Geography of California (3)
● HLED 10	Human Sexuality (3)
HIST 1A	History: Western (European) Civilization (3)
HIST 1AH	Honors History of Western European Civ (3)
HIST 1B	History: Western (European) Civilization (3)
HIST 1BH	Honors History of Western European Civ (3)
HIST 2B	World History to 1500 (3)
HIST 2C	World History Since 1500 (3)
HIST 2CH	Honors World History Since 1500 (3)
HIST 5A	History of England and Great Britain (3)
HIST 5B	History of England and Great Britain (3)
HIST 9A	History of China (3)
HIST 9B	History of Japan and Korea (3)
HIST 9C	History of India and Southeast Asia (3)
HIST 18	History of Mexico (3)
HIST 25	History of American Woman (3)
HIST 27A	History of the African-American to 1877 (3)
HIST 27B	Hist/African-American (Reconstr-Present) (3)
HIST 48	History of California (3)
(HIST 8A, 8B, 10 or 11 may be taken for the A.S. Degree)	
POLSC 2	Comparative Government (3)
POLSC 4	World Politics (3)
POLSC 9	The Constitution, Law and Society (3)
POLSC 10	Introduction to Political Science (3)
POLSC 11	Introduction to Political Theory (3)
(POLSC 1, 1H, or 3 may be taken for the A.S. Degree)	
PSYCH 1	Introduction to Psychology (3)
PSYCH 1H	Honors Introduction to Psychology (3)
PSYCH 2	Research Methods for Psychology (4)
PSYCH 4	Personal and Social Development (3)
● PSYCH 10	Human Sexuality (3)
PSYCH 11	Social Psychology (3)
PSYCH 14	Abnormal Psychology (3)
PSYCH 33	Psychology of Personality (3)
PUBAD 1	Introduction to Public Administration (3)
● SOCS 1	Comparative World Cultures (3)
● SOCS 1H	Honors Comparative World Cultures (3)
● SOCS 7	American Pluralism and Identity (3)
SOCIO 1	Introduction to Sociology (3)
SOCIO 1H	Honors Introduction to Sociology (3)
SOCIO 2	Modern Social Problems (3)
SOCIO 11	Race & Ethnic Relations in the U.S. (3)
SOCIO 13	Sociology of Latinos (3)
SOCIO 40	Sociology of the Family (3)

AMERICAN HISTORY

(NOT REQUIRED FOR THE A.S. DEGREE)

Note: Students are no longer required to take both 8A/8AH

and 8B/8BH at LBCC. Students may now take either 8A/8AH or 8B/8BH to fulfill the history portion of the U.S. History, Constitution, and American Ideals requirements. (Retroactive to Fall 2004)

One Class Required (3 Units minimum)—choose from:

HIST 8A	History of the Americas (3)
HIST 8AH	Honors History of the Americas (3)
HIST 8B	History of the Americas (3)
HIST 8BH	Honors History of the Americas (3)
HIST 10	Hist./Early America (Colonial- Reconstr) (3)
HIST 10H	Honors History/Early America (Colonial-Reconstr) (3)
HIST 11	Modern U.S. History (Reconstr- Present) (3)
HIST 11H	Honors History/Modern America (3)
HIST 25	History of American Women (3)
HIST 27A	History of the African-American to 1877 (3)
HIST 27B	Hist/African-American (Reconstr- Present) (3)

POLITICAL SCIENCE

(NOT REQUIRED FOR THE A.S. Degree)

One Class Required (3 units minimum)—choose from:

POLSC 1	Introduction to Government (3)
POLSC 1H	Honors Introduction to Government (3)
POLSC 3	Issues of American Government (3)

HUMANITIES AND ARTS

One Class Required (3 units minimum)—choose from:

ART 1	Art and Civilization (3)
ART 1H	Honors Art and Civilization (3)
ART 2	Art and Civilization (3)
ART 2H	Honors Art and Civilization (3)
ART 3	Modern and Contemporary Art (3)
ART 3H	Honors Modern and Contemporary Art (3)
ART 4	African, Oceanic, Native American Art (3)
ART 4H	Honors African, Oceanic, Native American Art (3)
ART 5	History of Asian Art (3)
ART 9	Introduction to Art (3)
ART 10	Art Appreciation (3)
ART 11	Latin American Art and Architecture (3)
ART 11H	Honors Pre-Columbian Art (3)
ART 15	Beginning Drawing (3)
ART 23	Beginning Painting (3)
ART 24	Watercolor, Beginning (3)
ART 26	Figure Painting (3)
ART 30	Fundamentals of Art/Volume, Plane & Form (3)
ART 31	Fundamentals of Art/Composition & Color (3)
ART 34	Applied Design/Crafts (3)
ART 35	Jewelry/Metalsmithing 1 (4)
ART 43	Beginning Website Design (3)
ART 50	Ceramics I (3)
ART 51	Ceramics II (3)
ART 60	Beginning Sculpture (4)
ART 70	Printmaking, Silkscreen (3)
ART 71	Printmaking, Intaglio (3)
ART 80	Elements of Photography (3)
CHIN 1	Elementary Chinese 1 (5)
CHIN 2	Elementary Chinese 2 (5)

COMM 50	Elements of Oral Interpretation (3)	MUSIC 32	History of Jazz (3)
CART 41	The Arts and Modern Man (3)	MUSIC 33B	Intercultural Music (3)
DANCE 1	Dance Forms Through the Ages (3)	MUSIC 35	Music of Multicultural America (3)
DANCE 19	Hip Hop Dance History (3)	MUSIC 40	Appreciation of Music (3)
ENGL 2	Introduction to Literature/Composition (4)	MUSIC 40H	Honors Appreciation of Music (3)
ENGL 2H	Honors Introduction to Literature/Composition (4)	MUSIC 89	History of Rock (3)
ENGL 26	Creative Writing 1 (3)	PHIL 3	Intro to Issues/Phil, Psych & Religion (3)
ENGL 32	Masterpieces/Asian Literature (in English) (3)	PHIL 6	Introduction to Philosophy (3)
ENGL 33	Mythology (4)	PHIL 6H	Honors Introduction to Philosophy (3)
ENGL 33H	Honors Mythology (4)	PHIL 7	Introduction to Ethics (3)
ENGL 35	Interpreting the Short Story (3)	PHIL 7H	Honors Introduction to Ethics (3)
ENGL 36	The Novel (3)	PHIL 8	Introduction to Non-Western Philosophy (3)
ENGL 37	Science Fiction, Fantasy, and Horror (3)	PHIL 9	Introduction to Existentialism (3)
ENGL 38	The Bible as Lit: The Old Testament (3)	PHIL 10	Introduction to Feminist Philosophy (3)
ENGL 39	The Bible as Lit: Apocrypha/New Testament (3)	PHIL 14	Philosophy of Religion (3)
ENGL 41	American Literature I (4)	PHIL 15	Introduction to Political Philosophy (3)
ENGL 42	American Literature II (4)	PHIL 16	Introduction to Business Ethics (3)
ENGL 43A	Introduction to Shakespeare (4)	PHOT 10	History of Photography (3)
ENGL 43B	Introduction to Shakespeare (4)	R TV 1	Introduction to Broadcasting (3)
ENGL 44	World Literature I (4)	SPAN 1	Elementary Spanish (5)
ENGL 44H	Honors World Literature I (4)	SPAN 2	Elementary Spanish (5)
ENGL 45	World Literature II (4)	SPAN 3	Intermediate Spanish (5)
ENGL 45H	Honors World Literature II (4)	SPAN 4	Intermediate Spanish (5)
ENGL 46	Survey of British Literature I (4)	SPAN 8	Spoken Spanish (3)
ENGL 47	Survey of British Literature II (4)	SPAN 9	Spanish for Spanish Speakers (5)
ENGL 48	Modern & Contemporary Literature (3)	SPAN 9H	Honors Spanish for Spanish Speaker (5)
ENGL 48H	Honors Modern /Contemporary Literature (3)	SPAN 10	Spanish for Spanish Speakers (5)
ENGL 49	Film and Literature (3)	SPAN 10H	Honors Span for Spanish Speaker (5)
ENGL 49H	Honors Film and Literature (3)	SPAN 25A	Advanced Spanish: Culture in Literature (3)
FILM 1	Introduction to Film Studies (3)	SPAN 25B	Advanced Spanish: History (3)
FILM 2A	Film History I (3)	SPAN 25C	Advanced Spanish: Politics, Current Event (3)
FILM 2B	Film History II (3)	SPAN 25D	Advanced Spanish: Literature (3)
FILM 10	Film Genres (3)	TART 1	Acting 1-Introduction to Acting (3.5)
FILM 25	Introduction to Digital Cinematography (3)	TART 25	Introduction to Theatre (3)
FREN 1	Elementary French (5)	TART 30	Introduction to Dramatic Literature (3)
FREN 1C	French 1 for Spanish Speakers (5)	VIET 1	Elementary Vietnamese (5)
FREN 2	Elementary French (5)	VIET 2	Elementary Vietnamese (5)
FREN 2C	French 2 for Spanish Speakers (5)		
FREN 3	Intermediate French (5)		
FREN 4	Intermediate French (5)		
FREN 25A	Advanced French: Culture in Literature (3)		
GER 1	Elementary German (5)		
GER 2	Elementary German (5)		
● HUMAN 1	Comparative World Cultures (3)		
● HUMAN 1H	Honors Comparative World Cultures (3)		
● HUMAN 7	American Pluralism and Identity (3)		
ITAL 1	Elementary Italian (5)		
ITAL 2	Elementary Italian (5)		
JAPAN 1	Elementary Japanese (5)		
JAPAN 2	Elementary Japanese (5)		
JAPAN 3	Intermediate Japanese (5)		
JAPAN 4	Intermediate Japanese (5)		
LING 1	Linguistics 1 (3)		
MUSIC 6	Introduction to Music Theory (3)		
MUSIC 28AD	Percussion Ensemble (1.5)		
MUSIC 30A	Music History: Antiquity to 1750 (3)		
MUSIC 30B	Music History: 1750-Present (3)		

PHYSICAL FITNESS/ WELLNESS

1 Unit Required—choose from:

DANCE 3	Musical Theatre Dance (2)
DANCE 5	Tap Dance 1 (2)
DANCE 6	Tap Dance2 (2)
DANCE 8	Stretch and Relaxation (2)
DANCE 12A	Pilates 1 (2)
DANCE 13	Turns (2)
DANCE 14	Modern Dance 1 (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 20	Jazz Dance 1 (2)
DANCE 21	Jazz Dance 2 (2)
DANCE 26	Ballet 1 (2)
DANCE 29	Ballet 4 (2)
DANCE 31	Choreography I (2)
DANCE 32	Choreography 2 (2)
DANCE 33	Dance Choreography Workshop (2)

DANCE 41/1	Dance Performance (0.5)	KINPF 3	Aqua Calisthenics (1)
DANCE 41/2	Dance Performance (1)	KINPF 4	Deep Water Aerobics (1)
DANCE 41/3	Dance Performance (2)	KINPF 6	Dance Aerobics (1)
DANCE 41AD	Dance Performance (2.5)	KINPF 8	Circuit Weight Training (1)
F_N: 26	Nutrition for the Active Person (1)	KINPF 8B	Circuit Weight Training (1)
F_N 250	Nutrition for Culinary Arts (2)	KINPF 10	Stretch & Relaxation (1)
F_N 255C	Nutrition for Adults and Aging (1)	KINPF 10B	Stretch & Relaxation (1)
F_N 255D	Vegetarian Lifestyle (1)	KINPF 12	Core Conditioning (1)
F_N 256	Weight Control & Energy Balance (2)	KINPF 12B	Core Conditioning (1)
F_N 260	Cultural Foods (1)	KINPF 14	Yoga (1)
F_N 261	Cooking for Wellness (1)	KINPF 17	Jogging (1)
F_N 262	Cooking for Singles (1)	KINPF 17B	Jogging (1)
HLED 21	Introduction to Public Health (3)	KINPF 18	Triathlon Training (1)
HLED 22	Health and Social Justice (3)	KINPF 18B	Triathlon Training (1)
HLED 24	Drugs, Health and Society (3)	KINPF 21	Low Impact Cardio (1)
KINA 1AD	PE for the Physically Limited (1)	KINPF 22	Physical Fitness (1)
KING 2	Ultimate Frisbee (1)	KINPF 22B	Physical Fitness (1)
KING 2B	Ultimate Frisbee (1)	KINPF 23	Cycling Conditioning (1)
KING 10	Badminton (1)	KINPF 24	Cardio Cross Fit (1)
KING 10B	Badminton (1)	KINPF 42	Swimming Fitness (1)
KING 14	Basketball (1)	KINPF 53	Power Lifting (1)
KING 14B	Basketball (1)	KINPF 54	Weight Training (1)
KING 55	Lifeguard/Water Safety Training (4)	KINPF 54B	Weight Training (1)
KING 65	Martial Arts (1)	KINPF 81	Fitness and Wellness Center (1)
KING 65B	Martial Arts (1)	KINPF 84A	Fitness and Wellness (2)
KING 66	Self-Defense (1)	KINPF 84B	Fitness & Wellness (2)
KING 66B	Self-Defense (1)	KINPP 7	Intro to Community Recreation (3)
KING 70	Soccer (1)	KINPP 10	Prevention & Care of Athletic Injuries (3)
KING 70B	Soccer (1)	KINPP 12	Techniques of Physical Fitness (2)
KING 74	Softball (1)	KINPP 15	Sports Officiating (Fall) (3)
KING 76	Swimming (1)	KINPP 17	Sports Officiating (Spring) (3)
KING 84	Tennis (1)	TART 1B	Acting 1 - Movement (2)
KING 86	Touch Football (1)	TART 2C	Acting 2 - Movement, Mime and Mask (2)
KING 90	Volleyball (1)		
KING 90B	Volleyball (1)		
KING 92	Sand Volleyball (1)		
KING 92B	Sand Volleyball (1)		
KING 94	Rugby (1)		
KINIA 1AD	Baseball (Men) (3)		
KINIA 2AD	Off-Season Conditioning for Athletes (3)		
KINIA 3AD	Baseball (Men) (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 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)		
		HEALTH EDUCATION	
		3 Units Minimum Required—choose from:	
		F_N 20	Nutrition and Life (3)
		HLED 3	Contemporary Health Problems (3)
		HLED 4	Women's Health Issues (3)
		HLED 5	Men's Health Issues (3)
		OR	
		BIO 60	Human Biology 1 (4)
		AND	
		BIO 61	Human Biology 2 (3)
		AND	
		PSYCH 1	Introduction to Psychology (3)
		OR	
		ANAT 41	Anatomy & Physiology (5)
		AND	
		DMI 60	Radiologic Pathology (3)
		AND	
		PSYCH 1	Introduction to Psychology (3)
		OR	
		ANAT 1	Human Anatomy (4)
		AND	
		PHYSI 1	Human Physiology (5)
		AND	
		PSYCH 1	Introduction to Psychology (3)

Plan B: Completion and certification of California State University General Education (CSU GE) Breadth

- 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 general education courses in the following areas: Area A (9 units), Area B (12 units), Area C (12 units), Area D (12 units), Area E (3 units).
- Up to 39 lower-division units may be completed at and certified by California community colleges. The college recommends the pattern of 39 lower-division units as listed in Plan B. After the student has transferred, the CSU campus will then specify a minimum of nine more upper-division units to be taken primarily in Areas B, C, and D. (Courses that fulfill these CSU requirements do not necessarily meet the requirements for the University of California system).
- Certification means that LBCC will officially designate on transcripts sent to any CSU those general education courses, which have been completed, and then the CSU campus will accept those courses toward fulfillment of the breadth requirements.
 - No course may be used to fulfill more than one general education requirement.
 - Courses numbered 1-99 in the Long Beach City College catalog are transferable as general education and/or elective credit to the CSU.
 - Completing the general education requirements and the major requirements is the responsibility of the student.

2016-2017 – California State University General Education - Breadth - PLAN B

LEGEND

- ◆ Denotes laboratory class.
- Indicates course limitations may exist. For an explanation of limitation, please refer to the UC Transfer Course Agreement, which is available on the ASSIST web site at www.assist.org.
- ◐ Cross-listed courses. A cross-listed course is interdisciplinary and is the same course as its cross-listed counterpart. A cross-listed course CANNOT be used in more than one discipline NOR can it be used to certify more than one area on Plan C:

ECON 5 = GEOG 5: The Global Economy

HUMAN 1/1H = SOCS 1/1H: Comparative World Cultures/
Honors CWC

HUMAN 3 = PHIL 3: Intro to Issues/Phil, Psych & Religion

HUMAN 7 = SOCS 7: American Pluralism and Identity

HLED 10 = PSYCH 10: Human Sexuality

AREA A: ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING**A1. ORAL COMMUNICATION**

One Class Required (3 units minimum)—choose from:

COMM 10	Elements of Public Speaking (3)
COMM 10H	Honors Elements of Public Speaking (3)
COMM 20	Elements of Interpersonal Communication (3)
COMM 30	Elements of Group Communication (3)
COMM 60	Elements of Argumentation and Debate (3)

A2. WRITTEN COMMUNICATION

One Class Required (3 units minimum)—choose from:

ENGL 1	Reading and Composition (4)
ENGL 1H	Honors Reading and Composition (4)

A3. CRITICAL THINKING

One Class Required (3 units minimum)—choose from:

COMM 60	Elements of Argumentation and Debate (3)
CPAS 2	Critical Thinking Using Computers (3)
ENGL 3	Argumentative and Critical Writing (4)
ENGL 3H	Honors Argumentative & Critical Writing (4)
ENGL 4	Critical Analysis of Literature (4)
ENGL 4H	Honors Critical Analysis of Literature (4)
PHIL 11	Critical Thinking (3)
PHIL 12	Introduction to Logic (3)
PHIL 22	Symbolic Logic (3)
READ 84	Analytical Reading (3)

AREA B: SCIENTIFIC INQUIRY AND MATHEMATICS/ QUANTITATIVE REASONING

Two Classes Required (6 units minimum).

◆ Indicates a lab course (Area B3).

NOTE: One class in this area must include an associated laboratory (Area B3).

B1. PHYSICAL SCIENCES (Complete 1 class)

ASTR 1	Astronomy (3)
ASTR 1H	Honors Elementary Astronomy (3)
◆ ASTR 1L	Astronomy Laboratory (2)
◆ CHEM 1A	General Chemistry (5.5)
◆ CHEM 1B	General Chemistry (5.5)
◆ CHEM 2	Elementary Chemistry (4.5)
◆ CHEM 3	Intro to Gen, Organic & Biochemistry (5)
ENVRS 1	Energy for the Future (3)
◆ GEOL 1	General Physical Geology (4.5)
◆ GEOL 1H	Honors General Physical Geology (4.5)
GEOL 2	General Geology, Physical (3)
GEOL 2F	Geology Field Trips (1)
◆ GEOL 2L	General Geology, Physical Geology Lab (1.5)
◆ GEOL 3	Historical Geology (4.5)
◆ GEOL 3H	Honors Historical Geology (4.5)
◆ GEOL 4	Field Geology (2)
GEOL 5	Environmental Geology (3)
GEOL 7	Field Studies: Western Environments (2)
GEOL 18	Geology of California (3)
PGEOG 1	Physical Geography (3)

- ◆ PGEOG 1L Physical Geography Lab (1.5)
- ◆ PGEOG 2 Weather and Climate (3)
- ◆ PHYS 2A General Physics (4)
- ◆ PHYS 2B General Physics (4)
- ◆ 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)

B2. BIOLOGICAL SCIENCES (Complete 1 class)

- ◆ ANAT 1 Human Anatomy (4)
- ◆ ANAT 41 Anatomy & Physiology (5)
- ◆ ANTHR 1 Physical Anthropology (3)
- ◆ ANTHR 1H Honors Physical Anthropology (3)
- ◆ BIO 1A Biology for Science Major (5)
- ◆ BIO 1B Biology for Science Majors (5)
- ◆ BIO 2 General Microbiology (5)
- ◆ BIO 5 Plant Biology (4)
- ◆ BIO 11 Environmental Problems of Man (3)
- ◆ BIO 20 Marine Biology (4)
- ◆ BIO 20H Honors Marine Biology (4)
- ◆ BIO 22 The Marine Environment (3)
- ◆ BIO 25 Biology and Society (3)
- ◆ BIO 30 Wildlife Biology (4)
- ◆ BIO 41 Contemporary Biology (3)
- ◆ BIO 41H Honors Contemporary Biology (3)
- ◆ BIO 41L Contemporary Biology Laboratory (1)
- ◆ BIO 41LH Honors Contemporary Biology Laboratory (1)
- ◆ BIO 60 Human Biology (4)
- ◆ BIO 60L Human Biology 1 Laboratory (1)
- ◆ BIO 61 Human Biology 2 (3)
- ◆ PHYSI 1 Human Physiology (5)

B4. MATHEMATICS/QUANTITATIVE REASONING

One Class Required (3 units minimum)—choose from:

- MATH 27 Probability and Statistics for Elementary Teachers (3)
- MATH 28 Mathematics for Elementary Teaching I (3)
- MATH 37 Finite Mathematics (3)
- MATH 37H Honors Finite Mathematics (3)
- MATH 40 Trigonometry (3)
- MATH 45 College Algebra (4)
- MATH 47 Calculus for Business (3)
- MATH 50 Precalculus Math (5)
- MATH 50H Honors Precalculus Math (5)
- MATH 60 First Calculus Course (5)
- MATH 60H Honors First Calculus Course (5)
- MATH 70 Second Calculus Course (5)
- MATH 70H Honors Second Calculus Course (5)
- MATH 80 Third Calculus Course (5)
- MATH 84 Intro Differential Eqns and Linear Alg (5)
- STAT 1 Elementary Statistics (4)
- STAT 1H Honors Elementary Statistics (4)

AREA C: ARTS AND HUMANITIES

3 Classes Required (9 units minimum)

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

C1. ARTS (Complete 1 class)

- ART 1 Art and Civilization (3)
- ART 1H Honors Art and Civilization (3)
- ART 2 Art and Civilization (3)
- ART 2H Honors Art and Civilization (3)
- ART 3 Modern and Contemporary Art (3)
- ART 3H Honors Modern and Contemporary Art (3)
- ART 4 African, Oceanic, Native American Art (3)
- ART 4H Honors African, Oceanic, Native American Art (3)
- ART 5 History of Asian Art (3)
- ART 9 Introduction to Art (3)
- ART 10 Art Appreciation (3)
- ART 11 Latin America Art and Architecture (3)
- ART 11H Honors Pre-Columbian Art (3)
- ART 30 Fundamentals of Art/Volume, Plane & Form (3)
- ART 31 Fundamentals of Art/Composition & Color (3)
- ART 80 Elements of Photography (3)
- COMM 50 Elements of Oral Interpretation (3)
- CART 41 The Arts and Modern Man (3)
- DANCE 1 Dance Forms Through the Ages (3)
- DANCE 19 Hip Hop Dance History (3)
- FILM 1 Introduction to Film Studies (3)
- FILM 2A Film History I (3)
- FILM 2B Film History II (3)
- FILM 10 Film Genres (3)
- MUSIC 6 Introduction to Music Theory (3)
- MUSIC 30A Music History: Antiquity to 1750 (3)
- MUSIC 30B Music History: 1750-Present (3)
- MUSIC 32 History of Jazz (3)
- MUSIC 33B Intercultural Music (3)
- MUSIC 35 Music of Multicultural America (3)
- MUSIC 40 Appreciation of Music (3)
- MUSIC 40H Honors Appreciation of Music (3)
- MUSIC 89 History of Rock (3)
- PHOTO 10 History of Photography (3)
- R TV 1 Introduction to Broadcasting (3)
- TART 1 Acting 1-Introduction to Acting (3.5)
- TART 25 Introduction to Theatre (3)
- TART 30 Introduction to Dramatic Literature (3)

C2. HUMANITIES (Complete 1 class)

- CHIN 1 Elementary Chinese 1 (5)
- CHIN 2 Elementary Chinese 2 (5)
- ENGL 2 Introduction to Literature/Composition (4)
- ENGL 2H Honors Introduction to Literature/Composition (4)
- ENGL 26 Creative Writing 1 (3)
- ENGL 32 Masterpieces/Asian Literature (in English) (3)
- ENGL 33 Mythology (4)
- ENGL 33H Honors Mythology (4)
- ENGL 35 Interpreting the Short Story (3)
- 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 41 American Literature I (4)
- ENGL 42 American Literature II (4)
- ENGL 43A Introduction to Shakespeare (4)
- ENGL 43B Introduction to Shakespeare (4)

ENGL 44	World Literature I (4)	PHIL 9	Introduction to Existentialism (3)
ENGL 44H	Honors World Literature I (4)	PHIL 10	Introduction to Feminist Philosophy (3)
ENGL 45	World Literature II (4)	PHIL 14	Philosophy of Religion (3)
ENGL 45H	Honors World Literature II (4)	PHIL 15	Introduction to Political Philosophy (3)
ENGL 46	Survey of British Literature I (4)	PHIL 16	Introduction to Business Ethics (3)
ENGL 47	Survey of British Literature II (4)	● SOCS 1	Comparative World Cultures (3)
ENGL 48	Modern & Contemporary Literature (3)	● SOCS 1H	Honors Comparative World Cultures (3)
ENGL 48H	Honors Modern/Contemporary Literature (3)	● SOCS 7	American Pluralism and Identity (3)
ENGL 49	Film and Literature (3)	SPAN 1	Elementary Spanish (5)
ENGL 49H	Honors Film and Literature (3)	SPAN 2	Elementary Spanish (5)
FREN 1	Elementary French (5)	SPAN 3	Intermediate Spanish (5)
FREN 2	Elementary French (5)	SPAN 4	Intermediate Spanish (5)
FREN 3	Intermediate French (5)	SPAN 9	Spanish for Spanish Speakers (3)
FREN 4	Intermediate French (5)	SPAN 9H	Honors Spanish for Spanish Speakers (5)
FREN 25A	Advanced French: Culture in Literature (3)	SPAN 10	Spanish for Spanish Speakers (5)
GER 1	Elementary German (5)	SPAN 10H	Honors Spanish for Span Speakers (5)
GER 2	Elementary German (5)	SPAN 25A	Advanced Spanish: Culture in Literature (3)
HIST 1A	History: Western (European) Civilization (3)	SPAN 25B	Advanced Spanish: History (3)
HIST 1AH	Honors History: Western (European) Civilization (3)	SPAN 25C	Advanced Spanish: Politics, Current Event (3)
HIST 1B	History: Western (European) Civilization (3)	SPAN 25D	Advanced Spanish: Literature (3)
HIST 1BH	Honors History of Western European Civ (3)	VIET 1	Elementary Vietnamese (5)
HIST 2B	World History to 1500 (3)	VIET 2	Elementary Vietnamese (5)
HIST 2C	World History Since 1500 (3)		
HIST 2CH	Honors World History Since 1500 (3)		
HIST 5A	History of England and Great Britain (3)		
HIST 5B	History of England and Great Britain (3)		
HIST 8A	History of the Americas (3)		
HIST 8AH	Honors History of the Americas (3)		
HIST 8B	History of the Americas (3)		
HIST 8BH	Honors History of the Americas (3)		
HIST 9A	History of China (3)		
HIST 9B	History of Japan and Korea (3)		
HIST 9C	History of India and Southeast Asia (3)		
HIST 10	Hist./Early America (Colonial-Reconstr) (3)		
HIST 10H	Honors History/Early America (3)		
HIST 11	Hist./Modern America (Reconstr-Present) (3)		
HIST 11H	Honors History/Modern America (3)		
HIST 18	History of Mexico (3)		
HIST 25	History of American Women (3)		
HIST 27A	History of the African-American to 1877 (3)		
HIST 27B	Hist/African-American (Reconstr-Present) (3)		
● HUMAN 1	Comparative World Cultures (3)		
● HUMAN 1H	Honors Comparative World Cultures (3)		
● HUMAN 7	American Pluralism and Identity (3)		
ITAL 1	Elementary Italian (5)		
ITAL 2	Elementary Italian (5)		
JAPAN 1	Elementary Japanese (5)		
JAPAN 2	Elementary Japanese (5)		
JAPAN 3	Intermediate Japanese (5)		
JAPAN 4	Intermediate Japanese (5)		
LING 1	Linguistics 1 (3)		
● PHIL 3	Intro to Issues/Phil, Psych & Religion (3)		
PHIL 6	Introduction to Philosophy (3)		
PHIL 6H	Honors Introduction to Philosophy (3)		
PHIL 7	Introduction to Ethics (3)		
PHIL 7H	Honors Introduction to Ethics (3)		
PHIL 8	Introduction to Non-Western Philosophy (3)		

AREA D: SOCIAL SCIENCES

3 Classes Required (9 units minimum)

NOTES: Students must take courses from at least 2 difference disciplines. Effective Fall 2016, Area D (Social Sciences) will no longer be categorized by sections D1-D0.

ANTHR 2	Cultural Anthropology (3)
ANTHR 2H	Honors Cultural Anthropology (3)
ANTHR 3	Intro to Archaeology (3)
ANTHR 3H	Honors Intro to Archaeology (3)
ANTHR 10	Magic, Witchcraft and Religion (3)
CDECE 45	Child & Adolescent Development DS 1(3)
COMM 25	Elements of Intercultural Communication (3)
ECON 1	Macro Economic Analysis (3)
ECON 1H	Honors Macro Economic Analysis (3)
ECON 2	Micro Economic Analysis (3)
ECON 2H	Honors Micro Economics Analysis (3)
ECON 3	General Concepts in Economics (3)
ECON 4	Contemporary Economic Issues (3)
● ECON 5	The Global Economy (3)
GEOG 2	Elements of Cultural Geography (3)
● GEOG 5	The Global Economy (3)
GEOG 40	World Regional Geography (3)
HIST 1A	History: Western (European) Civilization (3)
HIST 1AH	Honors History of Western European Civilization (3)
HIST 1B	History: Western (European) Civilization (3)
HIST 1BH	Honors History of Western European Civ (3)
HIST 2B	World History to 1500 (3)
HIST 2C	World History Since 1500 (3)
HIST 2CH	Honors World History Since 1500 (3)
HIST 5A	History of England and Great Britain (3)
HIST 5B	History of England and Great Britain (3)
HIST 8A	History of the Americas (3)
HIST 8AH	Honors History of the Americas (3)

- HIST 8B History of the Americas (3)
- HIST 8BH Honors History of the Americas (3)
- HIST 9A History of China (3)
- HIST 9B History of Japan and Korea (3)
- HIST 9C History of India and Southeast Asia (3)
- HIST 18 History of Mexico (3)
- HIST 25 History of American Women (3)
- HIST 27A History of the African-American to 1877 (3)
- HIST 27B Hist/African-American (Reconstr-Present) (3)
- HUMAN 1 Comparative World Cultures (3)
- HUMAN 1H Honors Comparative World Cultures (3)
- HUMAN 7 American Pluralism and Identity (3)
- PHIL 3 Intro to Issues/Phil, Psych & Religion (3)
- PHIL 10 Introduction to Feminist Philosophy (3)
- PHIL 15 Introduction to Political Philosophy (3)
- PHIL 16 Introduction to Business Ethics (3)
- POLSC 1 Introduction to Government (3)
- POLSC 1H Honors Introduction to Government (3)
- POLSC 2 Comparative Government (3)
- POLSC 3 Issues of American Government (3)
- POLSC 4 World Politics (3)
- POLSC 9 The Constitution, Law and Society (3)
- POLSC 10 Introduction to Political Science (3)
- POLSC 11 Introduction to Political Theory (3)
- PSYCH 1 Introduction to Psychology (3)
- PSYCH 1H Honors Introduction to Psychology (3)
- PSYCH 11 Social Psychology (3)
- PSYCH 14 Abnormal Psychology (3)
- PSYCH 33 Psychology of Personality (3)
- PUBAD 1 Introduction to Public Administration (3)
- SOCS 1 Comparative World Cultures (3)
- SOCS 1H Honors Comparative World Cultures (3)
- SOCS 7 American Pluralism and Identity (3)
- SOCIO 1 Introduction to Sociology (3)
- SOCIO 1H Honors Introduction to Sociology (3)
- SOCIO 2 Modern Social Problems (3)
- SOCIO 11 Race & Ethnic Relations in the U.S. (3)
- SOCIO 13 Sociology of Latinos (3)
- SOCIO 40 Sociology of the Family (3)

AREA E: LIFELONG LEARNING AND SELF-DEVELOPMENT

(3 units minimum)

Complete one class from:

- CDECE 45 Child & Adolescent Development DS 1(3)
- CDECE 47 Human Development (3)
- COUNS 2 Making a Difference With Mentoring (3)
- COUNS7 College and Professional Success (3)
- F_N 20 Nutrition and Life (3)
- GBUS 10 Personal Financial Management (3)
- HLED 3 Contemporary Health Problems (3)
- HLED 4 Women's Health Issues (3)
- HLED 5 Men's Health Issues (3)
- HLED 10 Human Sexuality (3)
- KINPP 1 Introduction to Kinesiology (3)
- KINPP 4 Lifetime Wellness Principles (3)
- LEARN 11 Learning and Academic Strategies (3)
- LEARN 11H Honors Learning and Academic Strategies (3)
- PSYCH 4 Personal and Social Development (3)

- PSYCH 10 Human Sexuality (3)

OR

Complete the following:

(KINPP 12 Techniques of Physical Fitness (2) & 1 unit KIN Activity)+

+---All courses grouped together must be completed to satisfy the requirement.

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

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

CSU Graduation Requirement

Complete both the History and Political Science sections below: Students may complete this requirement after transfer to a CSU.

History (3 units minimum) – choose from:

- HIST 8A History of the Americas (3)
- HIST 8AH Honors History of the Americas (3)
- HIST 8B History of the Americas (3)
- HIST 8BH Honors History of the Americas (3)
- HIST 10 Hist./Early America (Colonial- Reconstr) (3)
- HIST 10H Honors History/Early America (3)
- HIST 11 Hist./Modern America (Reconstr- Present) (3)
- HIST 11H Honors History/Modern America (3)

Political Science (3 units minimum) – choose from:

- POLSC 1 Introduction to Government (3)
- POLSC 1H Honors Introduction to Government (3)

NOTES: 1) Students are no longer required to take both 8A/8AH and 8B/8BH at LBCC. Students may now take either 8A/8AH or 8B/8BH to meet the History portion of the U.S. History, Constitution, and American Ideals Graduation Requirement. (Retroactive to Fall 2004). 2) HIST 8A, 8AH, 8B, 8BH, 10, 10H, 11, 11H, POLSC 1, 1H may be used for GE and the U.S. History, Constitution and American Ideals requirement (Retroactive to Fall 2011).

Plan C: Completion and certification of University of California/California State University Intersegmental General Education Transfer Curriculum

Plan C Intersegmental General Education Transfer Curriculum (IGETC) is for 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 (see courses of instruction). A student may transfer up to 70 semester units from Long Beach City College. The Intersegmental Committee of the Academic Senates for the combined university and college systems in the state of California approved the Intersegmental General Education Transfer Curriculum (IGETC) which was implemented Summer 1991.

1. The IGETC is a series of courses that community college

students can use to satisfy lower-division general education requirements at any CSU or UC campus.

- The IGETC provides an option to the California State University General Education 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 general education requirements of the CSU or UC prior to transfer. Students may find it advantageous to take courses at the community college fulfilling CSU's General Education requirements or those of a particular UC campus.
- To complete an Associate Degree with this program, a student must complete a field of concentration and the Associate Degree general education and proficiency requirements.
- Students must maintain continuous attendance.

2016-2017 General Education Requirements Intersegmental General Education Transfer Curriculum (IGETC) – Plan C

LEGEND

- ◆ Denotes laboratory class.
- * Indicates course limitations may exist. For an explanation of limitation, please refer to the UC Transfer Course Agreement, which is available on the ASSIST web site at www.assist.org.
- ◐ Cross-listed courses. A cross-listed course is interdisciplinary and is the same course as its cross-listed counterpart. A cross-listed course CANNOT be used in more than one discipline NOR can it be used to certify more than one area on Plan C:

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

AREA 1A: ENGLISH COMPOSITION

One Class Required (3 units minimum)—choose from:

- ENGL 1 Reading and Composition (4)
ENGL 1H Honors Reading and Composition (4)

AREA 1B: CRITICAL THINKING AND COMPOSITION

One Class Required (3 units minimum)—choose from:

- ENGL 3 Argumentative and Critical Writing (4)
ENGL 3H Honors Argumentative and Critical Writing (4)
ENGL 4 Critical Analysis of Literature (4)
ENGL 4H Honors Critical Analysis of Literature (4)

AREA 1C: ORAL COMMUNICATION

NOTE: This area required by CSU only.

One Class Required (3 units minimum)—choose from:

- COMM 10 Elements of Public Speaking (3)
COMM 10H Honors Elements of Public Speaking (3)
COMM 30 Elements of Group Communications (3)

COMM 60 Elements of Argumentation and Debate (3)

AREA 2: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING

One Class Required (3 units minimum)—choose from:

- * MATH 37 Finite Mathematics (3)
- * MATH 37HHonors Finite Mathematics (3)
- * MATH 45College Algebra (4)
- * MATH 47Calculus for Business (3)
- * MATH 50Precalculus Math (5)
- * MATH 50HHonors Precalculus Math (5)
- * MATH 60First Calculus Course (5)
- * MATH 60HHonors First Calculus Course (5)
- * MATH 70 Second Calculus Course (5)
- * MATH 70H Honors Second Calculus Course (5)
- * MATH 80 Third Calculus Course (5)
- * MATH 84 Intro Differential Eqns and Line Alg (5)
- STAT 1 Elementary Statistics (3)
- STAT 1H Honors Elementary Statistics (3)

AREA 3: ARTS AND HUMANITIES

Three Classes Required (9 units minimum).

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

AREA 3A: ARTS

One Class Minimum Required – choose from:

- ART 1 Art and Civilization (3)
ART 1H Honors Art and Civilization (3)
ART 2 Art and Civilization (3)
ART 2H Honors Art and Civilization (3)
ART 3 Modern and Contemporary Art (3)
ART 3H Honors Modern and Contemporary Art (3)
ART 4 African, Oceanic, Native American Art (3)
ART 4H Honors African, Oceanic, Native American Art (3)
ART 5 History of Asian Art (3)
ART 5H Honors History of Asian Art (3)
ART 10 Art Appreciation (3)
ART 11 Latin American Art (3)
ART 11H Honors Latin American Art and Architecture (3)
CART 41 The Arts and Modern Man (3)
DANC 1 Dance Forms Through the Ages (3)
DANC 19 Hip Hop Dance History (3)
FILM 1 Introduction to Film Studies (3)
FILM 2A Film History I (3)
FILM 2B Film History II (3)
FILM 10 Film Genres (3)
MUSIC 30A Music History: Antiquity to 1750 (3)
MUSIC 30B Music History: 1750-Present (3)
MUSIC 32 History of Jazz (3)
MUSIC 33B Intercultural Music (3)
MUSIC 35 Music of Multicultural America (3)
MUSIC 40 Appreciation of Music (3)
MUSIC 40H Honors Appreciation of Music (3)
MUSIC 89 History of Rock (3)
PHOTO 10 History of Photography (3)

- TART 25 Introduction to Theatre (3)
 TART 30 Introduction to Dramatic Literature (3)

AREA 3B: HUMANITIES

One Class Minimum Required – choose from:

- ENGL 32 Masterpieces/Asian Literature (in English) (3)
 ENGL 33 Mythology (4)
 ENGL 33H Honors Mythology (4)
 ENGL 35 Interpreting the Short Story (3)
 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 41 American Literature I (4)
 ENGL 42 American Literature II (4)
 ENGL 43A Introduction to Shakespeare (4)
 ENGL 43B Introduction to Shakespeare (4)
 ENGL 44 World Literature I (4)
 ENGL 44H Honors World Literature I (4)
 ENGL 45 World Literature II (4)
 ENGL 45H Honors World Literature II (4)
 ENGL 46 Survey of British Literature I (4)
 ENGL 47 Survey of British Literature II (4)
 ENGL 48 Modern & Contemporary Literature (3)
 ENGL 48H Honors Modern/Contemporary Literature (3)
 * ENGL 49 Film and Literature (3)
 * ENGL 49H Honors Film and Literature (3)
 FREN 3 Intermediate French (5)
 FREN 4 Intermediate French (5)
 FREN 25A Advanced French: Culture in Literature (3)
 HIST 1A History: Western (European) Civilization (3)
 HIST 1AH Honors History of Western European Civilization (3)
 HIST 1B History: Western (European) Civilization (3)
 HIST 1BH Honors History of Western European Civilization (3)
 HIST 2B World History to 1500 (3)
 HIST 2C World History Since 1500 (3)
 HIST 2CH Honors World History Since 1500 (3)
 HIST 5A History of England and Great Britain (3)
 HIST 5B History of England and Great Britain (3)
 HIST 8A History of the Americas (3)
 HIST 8AH Honors History of the Americas (3)
 HIST 8B History of the Americas (3)
 HIST 8BH Honors History of the Americas (3)
 HIST 9A History of China (3)
 HIST 9B History of Japan and Korea (3)
 HIST 9C History of India and Southeast Asia (3)
 * HIST 10 Hist./Early America (Colonial-Reconstr) (3)
 * HIST 10H Honors History/Early America (3)
 * HIST 11 Hist./Modern America (Reconstr-Present) (3)
 * HIST 11H Honors History/Modern America (3)
 HIST 18 History of Mexico (3)
 HIST 25 History of American Women (3)
 HIST 27A History of the African-American to 1877 (3)
 HIST 27B Hist/African-American (Reconstr-Present) (3)
 ● HUMAN 1 Comparative World Cultures (3)
 ● HUMAN 1H Honors Comparative World Cultures (3)
 ● HUMAN 7 American Pluralism and Identity (3)

- JAPAN 3 Intermediate Japanese (5)
 LING 1 Linguistics 1 (3)
 ● PHIL 3 Intro to Issues/Phil, Psych & Religion (3)
 PHIL 6 Introduction to Philosophy (3)
 PHIL 6H Honors Introduction to Philosophy (3)
 PHIL 7 Introduction to Ethics (3)
 PHIL 7H Honors Introduction to Ethics (3)
 PHIL 8 Introduction to Non-Western Phil (3)
 PHIL 9 Introduction to Existentialism (3)
 PHIL 10 Introduction to Feminist Philosophy (3)
 PHIL 14 Philosophy of Religion (3)
 PHIL 15 Introduction to Political Philosophy (3)
 PHIL 16 Introduction to Business Ethics (3)
 ● SOCS 1 Comparative World Cultures (3)
 ● SOCS 1H Honors Comparative World Cultures (3)
 ● SOCS 7 American Pluralism and Identity (3)
 * SPAN 3 Intermediate Spanish (5)
 * SPAN 4 Intermediate Spanish (5)
 * SPAN 9 Spanish for Spanish Speakers (3)
 * SPAN 9H Honors Spanish for Spanish Speakers (5)
 * SPAN 10 Spanish for Spanish Speakers (5)
 * SPAN 10H Honors Spanish for Spanish Speakers (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)

AREA 4: SOCIAL AND BEHAVIORAL SCIENCES

Three Classes Required (9 units minimum)

Students must take courses from at least 2 different disciplines.
 NOTE: Effective Fall 2016, Area 4 (Social and Behavioral Sciences) will no longer be categorized by sections 4A-4J.

- ANTHR 2 Cultural Anthropology (3)
 ANTHR 2HHonors Cultural Anthropology (3)
 ANTHR 3 Intro to Archaeology (3)
 ANTHR 3H Honors Intro to Archaeology (3)
 ANTHR 10 Magic, Witchcraft and Religion (3)
 COMM 25 Elements of Intercultural Communication (3)
 ECON 1 Macro Economic Analysis (3)
 ECON 1H Honors Macro Economic Analysis (3)
 ECON 2 Micro Economic Analysis (3)
 ECON 2H Honors Micro Economics Analysis (3)
 ECON 3 General Concepts in Economics (3)
 ECON 4 Contemporary Economic Issues (3)
 ● * ECON 5 The Global Economy (3)
 GEOG 2 Elements of Cultural Geography (3)
 ● * GEOG 5 The Global Economy(3)
 GEOG 40 World Regional Geography (3)
 ● HUMAN 1 Comparative World Cultures (3)
 ● HUMAN 1H Honors Comparative World Cultures (3)
 ● HUMAN 7 American Pluralism and Identity (3)
 ● PHIL 3 Intro to Issues/Phil, Psych & Religion (3)
 PHIL 10 Introduction to Feminist Philosophy (3)
 PHIL 15 Introduction to Political Philosophy (3)
 PHIL 16 Introduction to Business Ethics (3)
 POLSC 1 Introduction to Government (3)
 POLSC 1H Honors Introduction to Government (3)

- POLSC 2 Comparative Government (3)
 POLSC 3 Issues of American Government (3)
 POLSC 4 World Politics (3)
 POLSC 9 The Constitution, Law and Society (3)
 POLSC 10 Introduction to Political Science (3)
 POLSC 11 Introduction to Political Theory (3)
 PSYCH 1 Introduction to Psychology (3)
 PSYCH 1H Honors Introduction to Psychology (3)
 PSYCH 11 Social Psychology (3)
 PSYCH 14 Abnormal Psychology (3)
 SOCIO 1 Introduction to Sociology (3)
 SOCIO 1H Honors Introduction to Sociology (3)
 SOCIO 2 Modern Social Problems (3)
 SOCIO 11 Race & Ethnic Relations in the U.S. (3)
 SOCIO 13 Sociology of Latinos (3)
 SOCIO 40 Sociology of the Family (3)
 SOCS 1 Comparative World Cultures (3)
 SOCS 1H Honors Comparative World Cultures (3)
 SOCS 7 American Pluralism and Identity (3)

AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES

Two Classes Required (7 units minimum).

◆--Denotes Laboratory Classes.

NOTE: One class in this area must include an associated laboratory component (Area 5C).

Area 5A—Physical Sciences

One Class Required (3 units minimum) – choose from:

- ASTR 1 Astronomy (3)
 ASTR 1H Honors Elementary Astronomy (3)
 ◆ ASTR 1L Astronomy Laboratory (2)
 ◆ CHEM 1A General Chemistry (5.5)
 ◆ CHEM 1B General Chemistry (5.5)
 ◆*CHEM 2 Elementary Chemistry (4.5)
 ◆ CHEM 3 Intro to Gen, Organic & Biochemistry (5)
 ◆*GEOL 1 General Physical Geology (4.5)
 ◆*GEOL 1H Honors General Physical Geology (4.5)
 ◆*GEOL 2 General Geology, Physical (3)
 ◆ GEOL 2L General Geology, Physical Geology Lab (1.5)
 ◆ GEOL 3 Historical Geology (4.5)
 ◆ GEOL 3H Honors Historical Geology (4.5)
 GEOL 5 Environmental Geology (3)
 GEOL 18 Geography of California (3)
 PGEOG 1 Physical Geography (3)
 ◆ PGEOG 1L Physical Geography Lab (1.5)
 PGEOG 2 Weather and Climate (3)
 ◆*PHYS 2A General Physics (4)
 ◆*PHYS 2B General Physics (4)
 ◆*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)

Area 5B—Biological Sciences

One Class Required (3 units minimum) – choose from:

- ◆* ANAT 1 Human Anatomy (4)
 ◆* ANAT 41 Anatomy & Physiology (5)
 ANTHR 1 Physical Anthropology (3)

- ANTHR 1H Honors Physical Anthropology (3)
 ◆ BIO 1A Biology for Science Majors (5)
 ◆ BIO 1B Biology for Science Majors (5)
 ◆ BIO 2 General Microbiology (5)
 ◆* BIO 5 Plant Biology (4)
 ◆ BIO 20 Marine Biology (4)
 ◆ BIO 20H Honors Marine Biology (4)
 ◆* BIO 30 Wildlife Biology (4)
 * BIO 41 Contemporary Biology (3)
 * BIO 41H Honors Contemporary Biology (3)
 ◆* BIO 41L Contemporary Biology Lab (3)
 ◆* BIO 41LH Honors Contemporary Biology Lab (3)
 * BIO 60 Human Biology (4)
 ◆ BIO 60L Human Biology Laboratory (4)
 * BIO 61 Human Biology 2 (3)
 ◆* PHYSI 1 Human Physiology (5)

AREA 6: LANGUAGE OTHER THAN ENGLISH

PROFICIENCY (Required by UC Only)

Proficiency equivalent to two years of high school study in the same language.

This requirement may be met by any ONE of the following options:

- Completion of two years of foreign language in high school with a grade of “C” or better.
OR
- Performance on foreign language proficiency tests administered at a campus of the UC.
OR
- Earn a score of 550 on an appropriate College Board Achievement Test.
OR
- Satisfactory score, 3 or higher, on the College Board Advanced Placement examinations in languages other than English.
OR
- Satisfactory score, 5 or higher, on the International Baccalaureate Higher Level Examinations in languages other than English.
OR

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

- CHIN 2 Elementary Chinese 2 (5)
 FREN 2 Elementary French (5)
 FREN 3 Intermediate French (5)
 FREN 4 Intermediate French (5)
 GER 2 Elementary German (5)
 ITAL 2 Elementary Italian (5)
 JAPAN 2 Elementary Japanese (5)
 JAPAN 3 Intermediate Japanese (5)
 SIGN 1B American Sign Language, Beginning 2 (3)
 SIGN 2A American Sign Language, Intermediate 1 (3)
 SIGN 2B American Sign Language, Intermediate 2 (3)
 SPAN 2 Elementary Spanish (5)
 SPAN 3 Intermediate Spanish (5)
 SPAN 4 Intermediate Spanish (5)

- SPAN 9 Spanish for Spanish Speakers (5)
- SPAN 9H Honors Spanish for Spanish Speakers (5)
- SPAN 10 Spanish for Spanish Speakers (5)
- SPAN 10H Honors Spanish for Spanish Speakers (5)
- VIET 2 Elementary Vietnamese (5)

AREA 7: CSU U.S. HISTORY, CONSTITUTION AND AMERICAN IDEALS GRADUATION REQUIREMENT (Required by CSU Only)

CSU Graduation Requirement

Only courses completed at LBCC may be used to certify this requirement.

Students may complete this requirement after transferring to a CSU.

Complete both the History and Political Science sections below:

- φ History: 3 Units Minimum Required – choose from:
 - HIST 8A History of the Americas (3)
 - HIST 8AH Honors History of the Americas (3)
 - HIST 8B History of the Americas (3)
 - HIST 8BH Honors History of the Americas (3)
 - HIST 10 Hist/Early America (Colonial-Reconstr) (3)
 - HIST 10H Honors Hist/Early America (Colonial-Reconstr) (3)
 - HIST 11 Hist./Modern America (Reconstr-Present) (3)
 - HIST 11H Honors History/Modern America (3)

Political Science: 3 Units Minimum Required – choose from:

- POLSC 1 Introduction to Government (3)
- POLSC 1H Honors Introduction to Government (3)

φ **NOTES:** 1) Students are no longer required to take both 8A/8AH and 8B/8BH at LBCC. Students may now take either 8A/8AH or 8B/8BH to fulfill the History portion of the U.S. History, Constitution, and American Ideals requirement. (Retroactive to 2004). 2) HIST 8A, 8AH, 8B, 8BH, 10, 10H, 11, 11H, POLSC 1, 1H may be used for GE and the U.S. History, Constitution and American Ideals requirement (Retroactive to Fall 2011).

Associate Degrees

Long Beach City College offers the following four types of degrees:

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

The awarding of an Associate Degree at Long Beach City College 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 in Arts for Transfer (A.A.-T), and Associate in Science for Transfer (A.S.-T) - Student Transfer Achievement Reform Act Long Beach City College offers associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. Long Beach City College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing

somewhere in the CSU system and given priority admission consideration to their local CSU campus or to 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 are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester units.

Completion of EITHER PLAN B (the California State University General Education-Breadth pattern) OR PLAN C (Intersegmental General Education Transfer Curriculum (IGETC) pattern) IS REQUIRED. After completion of the General Education pattern students must request GE certification. Consult with a counselor for more information about the GE certification process.

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

1. **Minimum Unit Requirements:** Complete 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 for major requirements towards CSU-GE Breadth or IGETC patterns
2. **Minimum grade and GPA requirements:** Maintain an overall grade point average (GPA) of 2.0 (“C” average) in all CSU transferable coursework. For the major, complete each course with a grade of “C” or better, or “P” if course is graded on a P/NP basis.
3. **Residence for the degree:** Complete at least 12 CSU-transferable units (courses numbered 1-99) in residence at LBCC.
4. **Degree Application:** Complete and submit the degree application form to the Admissions and Records office during the final semester of course work. These forms are available in the Admissions and Records office, or online at www.admissions.lbcc.edu. Refer to the Schedule of Classes (www.schedule.lbcc.edu) and click the “Important Dates” link to view the actual deadline for each semester.
5. No other local graduation requirements are required with the transfer degree.

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

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

1. **Units** - The Associate Degree (A.S. or A.S.) requires a minimum of 60 units passed, including the field of concentration, required general education courses and free electives (if applicable) as defined in the college catalog.
2. **Scholarship** - An overall grade point average (G.P.A.) of 2.0 (“C” average) based on all accredited college work that is applied to the degree, no matter where completed.

3. **Residence** - At least 12 semester units must be completed in residence at Long Beach City College in order for the college to grant an Associate of Arts and/or an Associate of Science Degree.
4. **Field of Concentration** - Completion of 50 percent or more, in residence (which may include credit earned by exam, where applicable), of the requirements for the chosen field of concentration as defined in the appropriate curriculum guide. The field of concentration, the general education and the proficiency requirements must be those in effect for the same year. Per Title 5, section 55063 (a) (2) - Effective Fall 2009 – Students must complete each course counted toward the major or area of emphasis with a grade of “C” or better or “P” if the course is taken on a “Pass/No Pass” basis. Students who enrolled prior to Fall 2009 and who maintain continuous enrollment are not subject to the new minimum grade standards, but they must meet any minimum grade standards already established by the program as published on the appropriate curriculum guide.
5. **General Education and Proficiency requirements** – See Plan A for the requirements in general education and proficiency in reading, writing, mathematics and information competency. The field of concentration, the general education and the proficiency requirements must be those in effect for the same year. A student may use a course to fulfill a general education requirement in effect at the time the course was completed, even though the course may have been subsequently removed from the list of approved general education courses.
6. **Matriculation** - Matriculation materials must be submitted to the Admissions and Records Office prior to the application for graduation.

Dual Associate Degrees

An additional Associate Degree may be awarded to students who have met all requirements, including residence requirements, for another field of concentration. Degrees may be earned concurrently. For an additional degree, students may use any Long Beach City College catalog rights for which they are eligible.

Certificate Requirements

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

Occupational programs (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 to progress beyond an entry-level position. One of the college's goals is to help students make informed career decisions.

A Certificate of Achievement is defined as a course of study consisting of at least 18 units and is placed on a transcript.

A Certificate of Accomplishment is defined as a course of study consisting of less than 18 units and is not noted on a student's transcript.

A Certificate of Completion or Competency is a noncredit certificate and is not noted on a transcript nor has unit value. To earn a certificate at Long Beach City College, a student must:

1. Complete each of the **REQUIRED COURSES** listed on the program of study with a minimum grade of “C” or better. A Certificate of Completion or Competency will require a minimum number of hours and/or mastery of content.
2. Required courses in a noncredit certificate must be completed based on the required number of student contact hours and mastery of skills in the course outline.
3. Complete fifty percent (50%) or more of the requirements for the field of concentration in residence. Credit earned by exam, where applicable, may be included.
4. Complete and submit the certificate application form to the Admissions and Records Office during the final semester of course work. These forms are available in the Admissions and Records Office, or online at www.admissions.lbcc.edu. Refer to the Schedule of Classes (www.schedule.lbcc.edu) 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. Check with the department head for details.

PROGRAMS OF STUDY



This section contains all of the Programs of Study in alphabetical order, including Program 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. Full-time faculty are listed for each program. For information on all faculty and staff, visit: www.lbcc.edu/catalog/.

ADMINISTRATIVE ASSISTANT

The Administrative Assistant program at Long Beach City College is a comprehensive offering of courses created and designed for the purpose of educating and training diverse groups students for careers as Administrative Assistants and enhance skills for those who are currently employed in that area.

Contact Information: (562) 938-4904; <http://cos.lbcc.edu>

Department Head: Gene Carbonaro (562) 938-4624

Office: M121 (LAC)

Dean: Mollie Smith

Full-Time Faculty: Paulette Baumgardner, Therese Butler, Gene Carbonaro, Suman Mudunuri, Miriam Lynch, Zoila Rosillo, Clarissa Leiva, Neil Gailey, Susan Cully, Melvin Cobb, Dena Laney

ASSOCIATE IN SCIENCE (A.S.) DEGREE, ADMINISTRATIVE ASSISTANT (Plan Code: 2170)

The A.S. degree is designed for students who want to earn a two-year college degree in career/technical training or specific employment; to achieve a personal or career goal; or to prepare for transfer to the UC, CSU, or a private or out-of-state university. Students who intend to earn an associate degree are advised to consult with the counselor as early as possible to develop a transfer plan.

Program Learning Outcomes:

- Create a variety of documents using Office Suite Software.
- Demonstrate and apply effective written, oral, and nonverbal communication techniques to a variety of organizational situations.

REQUIRED COURSES	UNITS
BCOM 15 Business Communications	3
BCOM 25 Digital and Social Media	3
BCOM 260 Business Telephone Procedures	1
BCOM 262 Soft Skills for the Workplace	1
COSA 5 Microsoft Windows Operating System	3
COSA 10 Microsoft Word for Windows	4
COSA 15 Microsoft Excel for Windows	4
COSA 30 Introduction to Computers	3
COSA 45 Living Online	2
COSA 214 Records Management and Filing	2
COSA 215 Microsoft Outlook for Windows	3
COSK 200 Beg Keyboarding and Document Prod	3
OR	
COSK 233 Computer Keyboarding Skills	1
Subtotal Units 30-32	

IN ADDITION, complete TWO (2) courses from the following:

ACCTG 200A Introduction to Accounting	3
BCOM 222 Job Search Skills	3
BCOM 223 Law Office Procedure-Litigation	3
BCOM 224 Law Office Procedures	3
BCOM 261 Business English	3
BCOM 263 Customer Service	3
COSA 20 Microsoft PowerPoint for Windows	3
COSA 25 Microsoft Access for Windows	4
COSA 35 Microsoft Office	4
COSA 40 Microsoft Office Advanced	4

COSA 210 Intro to Project Management for IT	3
COSK 209 Speed/Accuracy Bldg. for Typists	1

Subtotal Units 4-8

Total Units in the Major 34-40

CERTIFICATE OF ACHIEVEMENT, ADMINISTRATIVE ASSISTANT (Plan Code: 3170)

This state-approved certificate acknowledges workplace competencies and job readiness in a specified program or specified courses.

REQUIRED COURSES - Complete the 34-40 units of required courses as listed in the Associate Degree major requirements.

**CERTIFICATE OF ACCOMPLISHMENT,
BUSINESS COMMUNICATIONS (Plan Code: 4070)**
Students will learn how to communicate effectively in the workplace.

REQUIRED COURSES	UNITS
BCOM 15 Business Communications	3
OR	
BCOM 20 Business Writing	3
BCOM 261 Business English	3
BCOM 262 Soft Skills for the Workplace	1
Total Units 7	

CERTIFICATE OF ACCOMPLISHMENT, COMPUTER & OFFICE SKILLS (Plan Code: 4074)

This certificate prepares students for a career in office administration by mastering the technical and soft skills that today's employers require.

REQUIRED COURSES	UNITS
COSA 5 Microsoft Windows Operating Systems	3
COSA 30 Introduction to Computers	3
COSA 214 Records Management and Filing	2
BCOM 260 Business Telephone Procedures	1
COSK 200 Beg. Keyboarding and Document Prod	3
Total Units 12	

CERTIFICATE OF ACCOMPLISHMENT, MICROSOFT OFFICE (Plan Code: 4077)

Students will learn to use Microsoft Word, Excel, Access, and PowerPoint to prepare for industry certification and employment.

REQUIRED COURSES	UNITS
COSA 35 Microsoft Office	4
COSA 40 Microsoft Office-Advanced	4
Total Units 8	

CERTIFICATE OF ACCOMPLISHMENT, COMPUTING AND INTERNET LITERACY (Plan Code: 4095)

Students will learn how to utilize computers and related technology efficiently.

REQUIRED COURSES	UNITS
COSA 30 Introduction to Computers	3
COSA 35 Microsoft Office	4
COSA 45 Living Online	2
Total Units 9	

**CERTIFICATE OF ACCOMPLISHMENT,
BUSINESS DIGITAL LITERACY** (Plan Code: 4130)

This certificate will develop students' current computer information competency skills in this short term course.

REQUIRED COURSE	UNITS
COSA 1 Computer Information Competency	1
Total Units 1	

**CERTIFICATE OF ACCOMPLISHMENT,
LAW OFFICE PROCEDURES** (Plan Code: 4132)

Prepares students for a job as a legal assistant in a law office environment.

REQUIRED COURSES	UNITS
BCOM 223 Law Office Procedure – Litigation	3
BCOM 224 Law Office Procedures	3
COSA 10 Microsoft Word for Windows	4
Total Units 10	

ADMINISTRATION OF JUSTICE

The Administration of Justice program at Long Beach City College is a comprehensive offering of courses created and designed for the purpose of educating and training diverse groups of students who aspire for careers in the Criminal Justice System. The program provides both certificates and degrees that reflect our student's level of educational preparedness for entry level opportunities in Law Enforcement, Corrections, and the Courts. Students are expected to successfully develop college level skills and knowledge in furtherance of transferring to other four year institutions of higher learning and successful careers in Criminal Justice.

Contact Information:
(562) 938-5031; <http://www.lbcc.edu/AdminJustice>
Department Head: Mike Biggs (562) 938-4452
Office: T2336 (LAC)
Dean: Mollie Smith
Full-Time Faculty: James Henchey, Mike Biggs

**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 at Long Beach City College 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 at Long Beach City College prepares students for a seamless transfer to a baccalaureate degree program in Criminal Justice/Criminology in the CSU system.

REQUIRED COURSES	UNITS
ADJUS 2 Introduction to Administration of Justice	3
ADJUS 4 Criminal Law	3
Subtotal Units 6	

IN ADDITION, complete SIX (6) units 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 5 Community and Human Relations	3
ADJUS 20 Introduction to Corrections	3
ADJUS 14 Juvenile Law and Procedures	3
Subtotal Units 6	

IN ADDITION, complete SIX to SEVEN (6-7) units from LIST B:

LIST B	
Any Course from List A not already used.	
SOCIO 1/1H Introduction to Sociology/Honors	3
STAT 1/1H Elementary Statistics/Honors	4
PSYCH 1/1H General Psychology/Honors	3
Subtotal Units 6-7	
Total Units in the Major 18-19	

**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 Learning Outcomes:

- Explore the history, development, structure and functions of the American criminal justice system.
- Apply criminological/criminal justice theories, principles, and concepts to address real-life situations in the field.
- Recognize the importance and practice of legal and ethical behavior in a professional criminal justice work setting.
- Analyze, interpret, and evaluate criminological/criminal justice theories, policies, practices and procedures to develop strategies to control and prevent crime.

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 list:

		UNITS
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 Enforcemnt	3
PUBAD 1	Introduction to Public Administration	3
Subtotal Units 6		
Total Units in the Major 24		

**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.

REQUIRED COURSES		UNITS
ADJUS 2	Intro 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		

IN ADDITION, complete NINE (9) units from the following courses:

		UNITS
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		

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

Any Foreign Language		
Any Computer and Office Studies (COS)		
Any Other Administration of Justice Courses (ADJUS)		
Subtotal Units 6		
Total Units 30		

**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.

REQUIRED COURSES		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, complete ONE (1) of the following courses:

		UNITS
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.

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		

**ADVANCED TRANSPORTATION
TECHNOLOGY - ALTERNATE FUELS**

The Alternative Fuels program is to provide students with state of the art training in servicing and maintaining Alternative Fueled vehicles in the light/medium and heavy duty engine platforms leading to a certificate and/or an AS Degree in Alternative Fuels.

Contact Information: (562) 938-4439; <http://www.lbcc.edu/attc/>
 Department Head: Scott Fraser (562) 938-4505
 Office: B105A (LAC)
 Dean: Mollie Smith
 Full Time Faculty: Cal Macy

**ASSOCIATE IN SCIENCE (A.S.) DEGREE,
ADVANCED TRANSPORTATION TECHNOLOGY –
ALTERNATE FUELS** (Plan Code: 2943)

Students prepare for a career in alternative fuel vehicle conversion, maintenance and repair using state-of-the-art-equipment. Computerized engine management is emphasized.

Program Learning Outcomes:

- Safely work on high pressure and low temperature fuels without injury.
- Diagnose and repair computer controlled and gaseous fueled engines.
- Understand and comply with regulations regarding installations and inspections of systems and their related components.

REQUIRED COURSES		UNITS
ATT 490	Introduction to Alternative Fuels	3.5
ATT 491	Heavy Duty Alternative Fuels	3.5
ATT 492	HD Alt Fuel Engine Diag. & Repair	3.5
ATT 493	Alt Fuels Conversion, Diag. & Repair	3.5
Subtotal Unit 14		

IN ADDITION, complete at least FOUR (4) units from the following:

		UNITS
AC_R 236A	Automobile Air Conditioning	2.5
AMECH 438	Auto Emission Controls (F-night)	6
AMECH 461	A-1 Engine Repair Specialty	6
ATT 480	Intro to Hybrid & Electric Vehicles	3.5
ATT 481	Advanced Hybrid & Electric Vehicles	3.5
ATT 483	Advanced Hybrid Diagnosis & Repair	3.5
DIESL 391B	Heavy Equipment Electrical Systems	5

DIESEL 293	General Engines	4
FORK 801	Forklift Safety and Operation	1
MTFAB 50	Introduction to Metalworking	4
WELD 50	Introduction to Welding	4

Subtotal Units 4-6

Total Units in the Major 18-20

Students should consult with a counselor for course selections.

**CERTIFICATE OF ACHIEVEMENT,
ADVANCED TRANSPORTATION TECHNOLOGY –
ALTERNATE FUELS (Plan Code: 3943)**

The certificate program will prepare students for an entry-level position as a light/medium and heavy duty technician in such fields as car, bus, truck, and specialty equipment diagnosis and repair industry.

REQUIRED COURSES	UNITS
ATT 490 Introduction to Alternative Fuels	3.5
ATT 491 Heavy Duty Alternative Fuels	3.5
ATT 492 HD Alt Fuel Engine Diag. & Repair	3.5
ATT 493 Alt Fuels Conversion, Diag. & Repair	3.5
Subtotal Units	14

IN ADDITION, Complete a minimum of SIX (6) units from the courses below:

ATT 801 Quick Service Tech -Lubrication Serv.	2
ATT 802 Quick Service Tech– Tire Service	2
ATT 803 Quick Service Tech– Brake Inspection	2
Subtotal Units	6
Total Units	20

**CERTIFICATE OF ACCOMPLISHMENT,
ADVANCED TRANSPORTATION TECHNOLOGY –
LIGHT/MEDIUM DUTY ALTERNATE FUELS
(Plan Code: 4102)**

Students receive training in the specialty field of Light/Medium alternative fuel vehicle maintenance and repair using state-of-the-art equipment.

REQUIRED COURSES	UNITS
ATT 490 Introduction to Alternative Fuels	3.5
ATT 493 Alt. Fuels Conversion, Diag.& Repair	3.5
Total Units	7

**CERTIFICATE OF ACCOMPLISHMENT,
ADVANCED TRANSPORTATION TECHNOLOGY -
HEAVY DUTY ALTERNATE FUELS (Plan Code: 4104)**

Students receive training in the specialty field of Heavy Duty alternative fuel maintenance and repair using state-of-the-art equipment.

REQUIRED COURSES	UNITS
ATT 491 Heavy Duty Alternative Fuels	3.5
ATT 492 HD Alt Fuel Engine Diag. & Repair	3.5
Total Units	7

**ADVANCED TRANSPORTATION
TECHNOLOGY – ELECTRIC VEHICLES**

The Electric Vehicle program provides students with state of the art training in servicing and maintaining Electric Vehicles leading to a Certificate and/or an A.S. Degree in Electric Vehicles.

Contact Information:

(562) 938-4439; <http://www.lbcc.edu/attc/index.cfm>

Department Head: Scott Fraser (562) 938-4505

Office: B105A (LAC)

Dean: Mollie Smith

**ASSOCIATE IN SCIENCE (A.S.) DEGREE,
ADVANCED TRANSPORTATION TECHNOLOGY -
ELECTRIC VEHICLES (Plan Code: 2945)**

Students prepare for a career in hybrids, fuel cells and electric vehicle conversion, maintenance and repair using state-of-the-art equipment.

Program Learning Outcomes:

- Safely work on the high Voltages present in Electric Vehicles without injury.
- Diagnose and repair computer controlled Electric Vehicles including hybrids, fuel cells, and plug in electrics, regarding installations and inspections of systems and their related components.
- Compare the differences, advantages, and limitations of the various Electric Vehicles to determine proper application of each technology.

REQUIRED COURSES	UNITS
ATT 480 Intro to Hybrid and Electric Vehicles	3.5
ATT 481 Advanced Hybrid & Electric Vehicles	3.5
ATT 483 Advanced Hybrid Diagnosis & Repair	3.5
ATT 490 Introduction to Alternative Fuels	3.5
Subtotal Units	14

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

	UNITS
AMECH 438 Auto Emission Controls	6
AMECH 461 A-1 Engine Repair Specialty	6
DIESEL 391B Heavy Equipment Electrical Systems	5
DIESEL 293 General Engines	4
AC_R 236A Automobile Air Conditioning	2.5
FORK 801 Forklift Safety and Operation	1
MTFAB 50 Introduction to Metalworking	4
WELD 50 Introduction to Welding	4
Subtotal Units	6
Total Units in the Major	20

**CERTIFICATE OF ACHIEVEMENT,
ADVANCED TRANSPORTATION TECHNOLOGY -
ELECTRIC VEHICLES (Plan Code: 3945)**

Students receive a specialty field certificate in hybrids, fuel cells and electric vehicle conversion, maintenance and repair using state-of-the-art equipment.

REQUIRED COURSES	UNITS
ATT 480 Intro to Hybrid and Electric Vehicles	3.5
ATT 481 Advanced Hybrid & Electric Vehicles	3.5

ATT 483	Advanced Hybrid Diagnosis & Repair	3.5
ATT 490	Introduction to Alternative Fuels	3.5
Subtotal Units		14

IN ADDITION, Complete SIX (6) units from the courses below:

ATT 801	Quick Service Tech – Lubrication	2
ATT 802	Quick Service Tech– Tire Service	2
ATT 803	Quick Service Tech– Brake Inspection	2
Subtotal Units		6
Total Units		20

**CERTIFICATE OF ACCOMPLISHMENT,
ADVANCED TRANSPORTATION TECHNOLOGY -
ELECTRIC VEHICLE (Plan Code: 4100)**

Students receive training in the specialty field of hybrids and electric vehicle maintenance and repair using state-of-the-art equipment.

REQUIRED COURSES		UNITS
ATT 480	Intro to Hybrid and Electric Vehicles	3.5
ATT 481	Advanced Hybrid & Electric Vehicles	3.5
Total Units		7

ALCOHOL AND DRUG STUDIES

The Alcohol and Drug Studies program at Long Beach City College provides students with the opportunity to fulfill state approved certification requirements of California for job placement and workforce development.

Contact Information: (562) 938-3961 or (562) 938-3963; <http://www.lbcc.edu/humanservices/>
 Department Head: Mike Biggs (562) 938-4452
 Office: T2336 (LAC)
 Dean: Mollie Smith
 Full-Time Faculty: Annahita Mahdavi, Sheri Zampelli

**ASSOCIATE IN ARTS (A.A.) DEGREE,
ALCOHOL AND DRUG STUDIES (Plan Code: 1811)**

This Associate Degree will prepare students for an entry-level position in the human services/alcohol and drug treatment field and for career advancement for those already employed in these occupations. Students learn the skills and knowledge necessary to transfer to upper division programs in social work or human services and be eligible to become employed at the paraprofessional entry level in serving alcohol and drug clients.

Program Learning Outcomes:

- Develop a psychosocial treatment plan for a client.
- Synthesize the theories and principles of drug and alcohol clinical evaluation, treatment planning, referral, service coordination, counseling, documentation, and professional/ethical responsibilities.

REQUIRED CORE COURSES		UNITS
HS 1	Introduction to Social Work	3
HS 46	Physiology & Pharmacology of Drugs	3
HS 47	Intervention, Treatment & Recovery	3
HS 48	Group & Family Process	3

HS 72A	Fieldwork in Human Services (A)	3
HS 72B	Fieldwork in Human Services (B)	3
Subtotal Units		18

SKILLS AREA

IN ADDITION, complete NINE (9) units from the following courses:

HS 43	Case Management: Treatment & Aftercare	3
HS 45	Stress Management for Case Managers	3
HS 50	Law and Ethics	3
HS 242	Conflict Resolution/Mediation	3
HS 252	Co Occurring Disorders	3
HS 255	Alcohol & Drug Prevention & Education.	3
HS 260	Domestic Violence Intervention Strategies	3

Subtotal Units 9

Total Units in the Major 27

**CERTIFICATE OF ACHIEVEMENT,
ALCOHOL & DRUG STUDIES (Plan Code: 3811)**

The Alcohol and Drug Studies program integrates theory and practical experience in developing skills necessary to work with the alcohol and drug abuse population, as well as with families and employers of chemically dependent persons. Completion of the Certificate in Alcohol & Drug Studies fulfills the California Association of Alcohol & Drug Studies (CAADE) academic and work experience requirements.

BEHAVIORAL/FOUNDATIONAL

REQUIRED COURSES UNITS

Complete SIX (6) units from the following courses:

ANTHR 2	Cultural Anthropology	3
HS 1	Introduction to Social Work	3
PSYCH 1	Introduction to Psychology	3
CDECE 47	Human Development	3
SOCIO 1	Introduction to Sociology	3
PSYCH 14	Abnormal Psychology	3

Subtotal Units 6

ENGLISH REQUIREMENT UNITS

IN ADDITION, complete the following courses:

ENGL 105	Fundamentals of Writing	4
OR		
ENGL 1	Reading and Composition	4

Subtotal Units 4

CORE COURSES

IN ADDITION, complete the following courses:

HS 43	Case Management: Treatment & Aftercare	3
HS 46	Physiology & Pharmacology of Drugs	3
HS 47	Intervention, Treatment & Recovery	3
HS 48	Group & Family Process	3
HS 50	Law and Ethics	3
HS 252	Co Occurring Disorders	3

Subtotal Units 18

SKILLS AREA

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

HS 40A	Introduction to Addictive Behavior	3
HS 40B	Introduction to Addictive Behavior	3
HS 41	Introduction to Chemical Dependency	3
HS 45	Stress Management for Case Managers	3
HS 207	Development of Helping/Listening Skills	3
HS 242	Conflict Resolution/Mediation	3

HS 255	Alcohol & Drug Prevention & Education	3
HS 260	Domestic Violence Intervention Strategies	3
		Subtotal Units 6

FIELDWORK

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

HS 72A	Fieldwork in Human Services (A)	3
HS 72B	Fieldwork in Human Services (B)	3
		Subtotal Units 6
		Total Units 40

CERTIFICATE OF ACCOMPLISHMENT, CO-OCCURRING DISORDERS - LEVEL ONE

(Plan Code: 4811)

Completing this certificate will give students the knowledge, training and skills needed to identify, assess and refer affected individuals who have both substance abuse and mental health issues to appropriate treatment. The Co-Occurring Disorders - Level One Certificate is a complement to all of the Human Services certificates.

REQUIRED COURSES		UNITS
PSYCH 1	Introduction to Psychology	3
PSYCH 14	Abnormal Psychology	3
HS 46	Physiology & Pharmacology of Drugs	3
HS 47	Intervention, Treatment & Recovery	3
HS 252	Co Occurring Disorders	3

Total Units 15

CERTIFICATE OF ACCOMPLISHMENT, ALCOHOL & CHEMICAL DEPENDENCY

(Plan Code: 4067)

Completion of this certificate will provide students with the knowledge, training and skills needed to identify, assess and refer affected individuals with substance abuse issues to appropriate treatment.

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 48	Group & Family Process	3
HS 50	Law and Ethics	3

Total Units 15

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.

Contact Information: (562) 938-4380

www.lbcc.edu/Anthropology

Department Head: Carlos Ramos; (562) 938-4418

Office: T2337 (LAC)

Dean: Dina Humble

Full-Time Faculty: Laurel Harrison Breece, Janine Pliska,
Adrian Novotny, Michael Robertson

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. Archaeology 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.

Program Learning Outcomes:

- 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 COURSES		UNITS
ANTHR 1/1H	Physical Anthropology/Honors	3
ANTHR 2/2H	Cultural Anthropology/Honors	3
ANTHR 3/3H	Introduction to Archaeology/Honors	3
		Subtotal Units 9

IN ADDITION, complete FOUR (4) units from LIST A:

LIST A		UNITS
STAT 1/1H	Elementary Statistics/Honors	4
		Subtotal Units 4

IN ADDITION, complete THREE-FOUR AND ONE-HALF (3-4.5) units from LIST B:

LIST B		
ANAT 1	Human Anatomy	4
GEOL 1/1H	General Physical Geology/Honors	4.5
GEOG 10	Intro to Geographic Information Systems	3
		Subtotal Unit 3-4.5

IN ADDITION, complete THREE (3) units from LIST C:

LIST C		
Any LIST A or B course not used above		
ANTHR 10	Magic, Witchcraft, and Religion	3
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 & Ethnic Relations in the U.S.	3
COMM 25	Elements of Intercultural Communication	3
		Subtotal Units 3
Total Units in the Major 19-20.5		

ARCHITECTURAL DESIGN

The Architectural Design program at Long Beach City College 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.

Contact Information: (562) 938-4658 or 938-4983;
<http://www.lbcc.edu/Architecture>
 Department Head: Scott Fraser (562) 938-4505
 Office: B105A (LAC)
 Dean: Mollie Smith
 Full-Time Faculty: Adrian Erb

ASSOCIATE IN SCIENCE (A.S.) DEGREE, ARCHITECTURAL DESIGN (Plan Code: 2908)

This field of concentration 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 Learning Outcomes:

- Be aware of program transfer requirements and prepared 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.
- Possess the necessary technical knowledge and communication skills to identify, articulate and solve problems pertaining to the built environment and perform tasks required within the architecture and/or environmental design professions.

REQUIRED COURSES	UNITS
ARCHT 60 Architectural Design	8
OR	

ARCHT 61 Architectural Design	4
AND	
ARCHT 62 Architectural Design	4
ARCHT 64 Architectural Design	8
OR	
ARCHT 65 Architectural Design	4
AND	
ARCHT 66 Architectural Design	4
ARCHT 70A Architectural Design	8
OR	
ARCHT 71A Architectural Design	4
Total Units in the Major 20-24	

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.

REQUIRED COURSES	UNITS
ARCHT 60 Architectural Design	8
OR	
ARCHT 61 Architectural Design	4
AND	
ARCHT 62 Architectural Design	4
ARCHT 64 Architectural Design	8
OR	
ARCHT 65 Architectural Design	4
AND	
ARCHT 66 Architectural Design	4
ARCHT 70A Architectural Design	8
OR	
ARCHT 71A Architectural Design	4
Subtotal Units 20-24	

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

	UNITS
DRAFT 210 3D Printing Fundamentals I (FDM)	1.5
DRAFT 211 Laser Cutting Fundamentals	1.5
ARCHT 360M1 Basic CAD for Architecture	1.5
ARCHT 360M2 Architecture Design CAD	1.5
TEC 60 Comp. Aided Drafting & Design (CADD)	4
ART 17 Illustration I	3
ART 30 Fundamentals of Art/Volume, Plane & Form	3
ART 31 Fundamentals of Art/Composition & Color	3
Subtotal Units 6	

IN ADDITION, complete THREE- FIVE (3-5) units from the following:

MATH 40 Trigonometry	3
OR	
Higher Math Course (see available math courses)	3-5
Subtotal Units 3-5	
Total Units 29-35	

ART

The Art and Photography Department at Long Beach City College 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, Associate Degree, a studio art certificate or vocational certificate. Students can pursue their individual interest in the visual arts through an array of foundation courses establishing a technical and critical understanding of visual language. These courses lead to improved personal creative expression or to specialized instruction in numerous areas within the creative and applied arts 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.

Contact Information:(562) 938-4563;

<http://www.lbcc.edu/artphoto>

Department Head: Morgan Barnard (562) 938-4845

Office: K100 (LAC)

Dean: Dina Humble

Full-Time Faculty: Morgan Barnard, Linda King, Chris Chinn, Carolyn Castano, Gerardo Monterrubio, Kristin Beeler, Stas Orlovski, Coleen Sterritt, Sarah Vure, Wendy Koenig, Ann Mitchell, Brian Doan

ASSOCIATE IN ARTS FOR TRANSFER

IN ART HISTORY (A.A.-T.), (Plan Code: 5015B/5015C)

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.

Program Learning Outcomes:

- 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 COURSES

	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

Select One (1) course from List A below:

LIST A:

ART 5 History of Asian Art	3
ART 4/4H African, Oceanic, Native American Art	3

Subtotal Units 3

Select One (1) course from List B below:

LIST B:

ART 31 Fund. of Art/Composition & Color	3
ART 30 Fund. of Art/Volume, Plane & Form	3
ART 19 Life Drawing	3
ART 41 Introduction to Computergraphics	3
ART 50 Ceramics I	3
ART 80 Elements of Photography	3
ART 60 Beginning Sculpture	4
ART 81 Introduction to Fine Art Photography	3
OR	
PHOT 31 Basic Photography: Black and White	4
OR	
ART 23 Beginning Painting	3

Subtotal Units 3-4

Select One (1) course from List C below:

LIST C:

ART 3/3H Modern & Contemporary Art/Honors	3
ART 11/11H Latin American Art and Architecture	3
PHOT 10 History of Photography	3

Subtotal Units 3

Total Units in the Major 18-19

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

IN STUDIO ARTS (A.A.-T.), (Plan Code: 5013B/5013C)

The Associate in Arts in Studio Arts for Transfer degree is designed to prepare students for a major in Studio Arts at four year 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 Art Program create and refine their portfolios to meet academic and professional standards as they develop as artists.

Program Learning Outcomes:

- Produce artwork that demonstrates skill, craftsmanship, comprehension of visual design and aesthetic conceptual rigor.
- Create original artwork using a foundation of skills, craft, traditional and digital technologies.
- Analyze, interpret and exercise aesthetic judgment in the critical evaluation of visual art forms.

REQUIRED COURSES		UNITS
ART 2/2H	Art and Civilization/Honors	3
ART 31	Fundamentals of Art/Composition & Color	3
ART 30	Fundamentals of Art/Volume, Plane & Form	3
ART 15	Beginning Drawing	3
Subtotal Units		12

Select One (1) course from List A below:

LIST A:

ART 1/1H	Art and Civilization/Honors	3
ART 5	History of Asian Art	3
ART 4/4H	African, Oceanic, Native American Art	3
Subtotal Units		3

Select Three (3) course from List B below:

LIST B:

ART 19	Life Drawing	3
ART 16	Intermediate Drawing	3
ART 23	Beginning Painting	3
ART 70	Printmaking, Silkscreen	3
ART 50	Ceramics I	3
ART 60	Beginning Sculpture	4
ART 41	Introduction to Computergraphics	3
PHOT 31	Basic Photography: Black and White	4
OR		
PHOT 32	Introduction to Digital Photography	4
ART 34	Applied Design/Crafts	3
OR		
ART 35	Jewelry/Metalsmithing I	4
ART 71	Printmaking, Intaglio	3
OR		
ART 81	Introduction to Fine Art Photography	3

Subtotal Units 9-12

Total Units in the Major 24-27

ASSOCIATE IN ARTS (A.A.) DEGREE, ART

(Plan Code: 1194)

This field of concentration is designed to provide a fundamental education for a variety of specializations within the field. It also substantially fulfills lower division requirements for a baccalaureate degree in this major.

Program Learning Outcomes:

- Produce professional quality artwork that demonstrates skill, craftsmanship, comprehension of visual design, and aesthetic conceptual rigor.
- Develop a foundation of skills, craft, traditional, and digital technologies.
- Analyze, interpret, and exercise critical judgment in the evaluation of visual art forms.

Complete the Required Courses (38 units) AND one of the OPTIONS listed below (6-8 units):

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	4
ART 41	Introduction to Computergraphics	3
ART 50	Ceramics I	3

ART 60	Beginning Sculpture	4
ART 81	Introduction to Fine Art Photography	3
ART 292	Professional Skills for Artists	3
Subtotal Units		38

APPLIED DESIGN OPTION

In addition to the above 38 units, 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

In addition to the above 38 units, complete SIX (6) units from the following:

ART 3	Modern & Contemporary Art	3
ART 4/4H	African, Oceanic, Native American Art	3
ART 5	History of Asian Art	3
ART 11/11H	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

In addition to the above 38 units, complete SIX (6) units from the following:

ART 42	Intro/3D & Multimedia Computergraphics	3
ART 43	Beginning Website Design	3
ART 44	Graphic Design Tools & Techniques	3
ART 45	Computer Art for Drawing & Painting	3
ART 46	Computer Art & Design in 3D Modeling	3
ART 47	Computer Animation & Multimedia	3
ART 48	Computer Art & Design for TV & Video	3
ART 55	Introduction to Graphic Design	3
Subtotal Units		6

DRAWING AND PAINTING OPTION

In addition to the above 38 units, complete SIX (6) units 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

In addition to the above 38 units, complete SIX (6) units from the following:

ART 32	Intermediate Design	3
ART 43	Beginning Website Design	3
ART 44	Graphic Design Tools & Techniques	3
ART 55	Introduction to Graphic Design	3
ART 56	Introduction to Typography	1.5
Subtotal Units		6

ILLUSTRATION OPTION

In addition to the above 38 units, complete SIX (6) units 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 OPTION

In addition to the above 38 units, complete SIX (6) units from the following:

ART 70	Printmaking, Silkscreen	3
ART 71	Printmaking, Intaglio	3
ART 72	Advanced Printmaking	3
		Subtotal Units 6

SCULPTURE OPTION

In addition to the above 38 units, complete EIGHT (8) units from the following:

ART 61	Intermediate Sculpture	4
ART 62	Metal Fabrication Sculpture	4
ART 63	Metal Casting Sculpture	4
		Subtotal Units 8

FINE ART PHOTOGRAPHY OPTION

In addition to the above 38 units, complete SEVEN (7) units from the following:

PHOT 31	Basic Photography: Black and White	4
PHOT 32	Introduction to Digital Photography	4
PHOT 33	Photography Studio Lighting	4
PHOT 37	Portrait Photography	4
PHOT 40	Mastering the Photographic Print	3
PHOT 42	Experimental Photography Laboratory	4
PHOT 43	Photoshop and Digital Image Management	3
PHOT 281	Photography Laboratory	1
PHOT 35	Photography for Publication	3
PHOT 39	Photography on Location	3
PHOT 41	Professional Photographic Portfolio	4
		Subtotal Units 7

Total Units in the Major 44-46

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.

REQUIRED COURSES UNITS

FILM 20	Fundamentals of Digital Film Production	3
OR		
R_TV 14	Electronic Field Production	2.5
R_TV 216AC	Non-Linear Video & Film Editing	2.5
PHOT 32	Introduction to Digital Photography	4
ART 41	Introduction to Computergraphics	3
DMA 201	Introduction to Digital Media Arts	3
		Total Units 15-15.5

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.

ART 31	Fundamentals of Art/Composition & Color	3
ART 41	Introduction to Computergraphics	3
ART 43	Beginning Website Design	3
ART 44	Graphic Design Tools & Techniques	3
ART 55	Introduction to Graphic Design	3
ART 56	Introduction to Typography	1.5

Total Units 16.5

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.

Contact Information:

(562) 938-4753; <http://www.lbcc.edu/baking>
 Department Head: Haley Nguyen (562) 938-4104
 Office: V126 (LAC)
 Dean: Mollie Smith (562) 938-3057
 Full-Time Faculty: Chef Pierre Juès, Chef Jennifer Gomez, Chef Chris Young

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.

Program Learning Outcomes:

- Create yeast bread products to industry standards.
- Create pastry products to industry standards.
- Synthesize the principles and reactions of basic baking ingredients and their properties alone and when combined with other ingredients.
- Demonstrate industry-standard kitchen safety and sanitation practices.

REQUIRED COURSES UNITS

CULAR 20	App Food Serv Sanit in Hotel/Rstr Mgmt	3
CULAR 225	Product and Menu Development	2
BCOM 262	Soft Skills for the Workplace	1
CULAR 241	Intro to Baking & Pastry Skills/Princ	5
CULAR 258	Artisan Breads	1.5
CULAR 259	Viennese Pastries	1.5
CULAR 242	Intermed Baking and Pastry Skills/Princ	5
CULAR 246	Specialty Cakes & French Pastries	3

CULAR 247	Cake Decorating	3
CULAR 243A	Advanced Bakery Operations	4
CULAR 243B	Advanced Bakery Practicum	4
BCOM 222	Job Search Skills	3

Subtotal Units 36

IN ADDITION, complete THREE (3) units from the following:

CULAR 250	Culinary Skills for Baking Students	1.5
CULAR 252	Frozen Desserts	1.5
CULAR 253	Chocolate Confections, Deco & Showpieces	1.5
CULAR 254	Sugar Confections, Deco & Showpieces	1.5
CULAR 255	Plated Desserts	1.5
CULAR 256	Holiday Desserts	1.5

Subtotal Units 3

Total Units in the Major 39

RECOMMENDED courses but not required:

LEARN 811	Introduction to Study Skills	1
MATH 825	Culinary Math	1
COSA 1	Computer Information Competency	1
COSA 45	Living Online	2

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.

REQUIRED COURSES—Complete the 39 units of required courses as listed in the Associate Degree major requirements.

Program Learning Outcomes:

- 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

Select courses from the following, total 9-12 units:

ANAT	Anatomy
BIO	Biology (excluding BIO 47, 48 or 49)
PHYSI	Physiology

Subtotal Units 9-12

IN ADDITION, complete SIX-NINE (6-9) units from:

ASTR	Astronomy Courses
CHEM	Chemistry Courses
ENVRS 1	Energy for the Future
PGEOG	Physical Geography (excluding all other Geography-GEOG-courses)
GEOL	Geology Courses
MATH	Math Courses (excluding MATH 110, 805, 815)
PHYS	Physics Courses

Subtotal Units 6-9

Total Units in the Major 18

BIOLOGICAL SCIENCES

The department has a multi-fold mission of (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 and increase awareness of personal health.

Contact Information:

(562) 938-4168; www.lbcc.edu/LifeScience
 Department Head: Daniel Nigro (562) 938-4939
 Office: D252 (LAC)
 Dean: Paul Creason
 Full-Time Faculty: Mehrzad Akhavan, Robyn Arias, Deip Burbridge, Chris Davison, John Downey, Heather Dy, Dave Gayle, Elizabeth Nash, Daniel Nigro, Patricia Valella, Joan Zuckerman

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.

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.

Contact Information: (562) 938-4477; <http://business.lbcc.edu>

Department Head: Myke McMullen (562) 938-4941
 Office: T2339 (LAC)
 Dean: Dina Humble
 Full-Time Faculty: Brennan Carr, Bryan Corsnitz, Fred Beebe, Geetha Rajaram, Jim Noggle, Jeannie Harris, Karen Faulkner, Kirk Canzano, Myke McMullen, Nick Carbonaro, Sandra O’Toole, Surendra Verma

ASSOCIATE IN SCIENCE IN BUSINESS ADMINISTRATION FOR TRANSFER DEGREE (A.S.-T.),

(Plan Code: 5502B/5502C)

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:

- Comprehend the primary elements of the language and theories of the business environment and demonstrate an understanding of basic mathematics and technology fundamentals.
- Use creative and critical-thinking strategies in the solution of complex business situations through the application of business, mathematical, and technological skills.
- Develop communication and teamwork skills for the purpose of ensuring future personal and professional success.

REQUIRED COURSES		UNITS
ACCTG 1A	Principles of Accounting	5
ACCTG 1B	Principles of Accounting	5
ECON 1/1H	Macro Economic Analysis/Honors	3
ECON 2/2H	Micro Economic Analysis/Honors	3
LAW 18A	Business Law	3
Subtotal Units		19

IN ADDITION, complete THREE-FOUR (3-4) units from LIST A:
LIST A

STAT 1	Elementary Statistics	4
STAT 1H	Honors Elementary Statistics	4
MATH 37/37H	Finite Math/Honors	3
MATH 47	Calculus for Business	3
Subtotal LIST A Units		3-4

IN ADDITION, complete SIX-SEVEN (6-7) units from LIST B:
LIST B

Any LIST A course not used above		3
GBUS 5	Intro to Business	3
COSA 30	Introduction to Computers	3
OR		
COSA 50	Introduction to IT Concepts & Apps.	4
Subtotal LIST B Units		6-7
Total Units in the Major		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 DEGREE (A.A.), BUSINESS:
EMPHASIS IN CONCENTRATION**

The Associate Degree in Business Administration 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.

Program Learning Outcomes:

- Ensure that 85% of all courses meet or exceed their outcome/assessment goals and develop appropriate action plans for continuous improvement.
- Develop strategies throughout all concentrations/courses to enhance the development of our students' critical-thinking skills: their ability to reason, ask appropriate questions and make strong decision.
- Develop assignments and/or exercises to enhance students' verbal and non-verbal skills: their ability to reflect, write, speak and respond in a personal and professional manner.
- Improve the level of student success and student retention as well as increase the number of degrees and certificates.

- To develop a strong working relationship with local businesses through the formation of an Industry Council for the purpose of advisement and collaboration in order to ensure that our course offerings are providing our students with the strongest preparation for entering the workforce. Additionally, it would be our goal for this Council to develop strong feelings for LBCC students and to evolve these feelings into actual job opportunities.

REQUIRED CORE COURSES (all concentrations) UNITS

GBUS 5	Introduction to Business	3
LAW 18A	Business Law	3
*ACCTG 1A	Principles of Accounting	5
OR		
ACCTG 200A	Introduction to Accounting	3
*For Accounting concentration, students must take ACCTG 1A.		
Subtotal Units		9-11

IN ADDITION to the required core, students must choose ONE of the following concentrations:

Business: Accounting Concentration (Plan Code: 1100)

REQUIRED COURSES		UNITS
ACCTG 1B	Principles of 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

Recommended Electives for students choosing this concentration are LAW 18B, ACCTG 200A, ECON 1, ECON 2.

Business: General Business Concentration
(Plan Code: 1111)

REQUIRED COURSES		UNITS
IBUS 1	Introduction to International Business	3
MGMT 49A	Introduction to Management	3
OR		
MKTG 47	Essentials of Marketing	3
LAW 18B	Business Law	3
OR		
GBUS 25	Digital and Social Media	3
GBUS 10	Personal Financial Management	3
Subtotal Units		15

Recommended Electives for students choosing this concentration are ECON 1 or ECON 4.

Business: International Business Concentration
(Plan Code: 1151)

REQUIRED COURSES		UNITS
IBUS 1	Introduction to International Business	3
IBUS 20	Export-Import Business Practice	3
IBUS 60	International Business Law	3
IBUS 75	Introduction to Logistics	3
IBUS 52	Introduction to Supply Chain Management	3
Subtotal Units		15

Recommended Electives for students choosing this concentration are LAW 18B, ECON 1, ECON 5.

Business: Management Concentration

(Plan Code: 1143)

REQUIRED COURSES	UNITS
MGMT 49A Introduction to Management	3
OR	
MGMT 49B Human Resources Management	3
MGMT 58 Leadership and Supervision	3
MGMT 60 Management & Organizational Behavior	3
MGMT 80 Small Business Entrepreneurship	3

Subtotal Units 15**Recommended Electives for students choosing this concentration are** LAW 18B, ECON 2.**Business: Marketing Concentration**

(Plan Code: 1153)

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

Subtotal Units 12**Recommended Electives for students choosing this concentration are** LAW 18B, ECON 2.**Elective Units (see above for recommendations) 6****Total Units in the Major (depends on the concentration) 27-32****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.

REQUIRED COURSES	UNITS
GBUS 5 Introduction to Business	3
LAW 18A Business Law	3
ACCTG 1A Principles of Accounting	5
ACCTG 1B Principles of 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 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.

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

OR

ACCTG 200A Introduction to Accounting	3
IBUS 1 Introduction to International Business	3
MGMT 49A Introduction to Management	3
OR	
MKTG 47 Essentials of Marketing	3
LAW 18B Business Law	3
OR	
GBUS 25 Digital and Social Media	3
GBUS 10 Personal Financial Management	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.

REQUIRED COURSES UNITS

GBUS 5 Introduction to Business	3
LAW 18A Business Law	3
ACCTG 1A Principles of Accounting	5
OR	
ACCTG 200A Introduction to Accounting	3
IBUS 1 Introduction to International Business	3
IBUS 20 Export-Import Business Practice	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.

REQUIRED COURSES UNITS

GBUS 5 Introduction to Business	3
LAW 18A Business Law	3
ACCTG 1A Principles of Accounting	5
OR	
ACCTG 200A Introduction to Accounting	3
MGMT 49A Introduction to Management	3
OR	
MGMT 49B Human Resources 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.

REQUIRED COURSES		UNITS
GBUS 5	Introduction to Business	3
LAW 18A	Business Law	3
ACCTG 1A	Principles of Accounting	5
OR		
ACCTG 200A	Introduction to Accounting	3
MKTG 40	Salesmanship	3
MKTG 41	Marketing Communications	3
MKTG 47	Essentials of Marketing	3
IBUS 52	Introduction to Supply Chain Management	3
Total Units		26

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.

REQUIRED COURSES		UNITS
ACCTG 1A	Principles of Accounting	5
ACCTG 1B	Principles of 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.

REQUIRED COURSES		UNITS
GBUS 5	Introduction to Business	3
LAW 18A	Business Law	3
MKTG 40	Salesmanship	3
ACCTG 200A	Introduction to Accounting	3
OR		
ACCTG 1A	Principles of Accounting	5
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.

REQUIRED COURSES		UNITS
GBUS 5	Introduction to Business	3
IBUS 1	Introduction to International Business	3
IBUS 20	Export/Import Business Practice	3
IBUS 52	Introduction to Supply Chain Management	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.

REQUIRED COURSES		UNITS
MGMT 49A	Introduction to Management	3
OR		
MGMT 49B	Human Resource Management	3
MGMT 58	Leadership and Supervision	3
MGMT 60	Mgmt. & Organizational 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.

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.

REQUIRED COURSES		UNITS
ACCTG 1B	Principals of Accounting	5
ECON 2	Micro Economic Analysis	3
LAW 18B	Business Law	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.

REQUIRED COURSES		UNITS
ACCTG 1A	Principals of Accounting	5
ECON 1	Macro Economic Analysis	3
LAW 18A	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.

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

**CHILD DEVELOPMENT: EARLY
CHILDHOOD EDUCATION (CDECE)**

The Child and Adult Development Department at Long Beach City College is committed to enhancing the quality of life for students, children and families throughout the life span. Embracing the diversity each student brings, the Department strives to empower individual learners through personal and professional growth. This department provides general and vocational education at the lower division level.

Contact Information:

(562) 938-4253; <http://www.lbcc.edu/ChildrenCenter/>
 Department Head: Dana Van Sinden (562) 938-3274
 Office: T2326 (LAC)
 Dean: Mollie Smith
 Full-Time Faculty: Paula Fisher, Debi Bowens, Julie Frumkin, Cathy Fountain, Kristin Pierce, Donna Rafanello, Kathleen Vokoun

**ASSOCIATE IN SCIENCE IN EARLY CHILDHOOD
EDUCATION FOR TRANSFER DEGREE (A.S.-T.),
(Plan Code: 5501B/5501C)**

The Associate in Science in Early Childhood Education for Transfer is designed for students who wish to transfer to a four-year 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 AST 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 Learning Outcomes:

- Design, implement, and evaluate environments and activities that support optimum developmental play and learning outcomes for all young children.
- Demonstrate responsive care and teaching practices for young children through the integration of assessment, theory, and practice.
- 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 COURSES		UNITS
CDECE 45	Child & Adolescent Development DS1	3
CDECE 48	Child, Family & Community DS2	3
CDECE 53	Principles and Practices DS3	3
CDECE 50	Intro to Curriculum for Young Children	3
CDECE 19	Health, Safety and Nutrition DS	3
CDECE 61	Teaching in a Diverse Society DS3	3
CDECE 66	Observation and Assessment D3	3
CDECE 68	Practicum D3	3
Total Units		24

**ASSOCIATE IN ARTS (A.A.) DEGREE,
EARLY CHILDHOOD EDUCATION (Plan Code: 1302)**

This field of concentration 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 Learning Outcomes:

- Design, implement, and evaluate environments and activities that support optimum developmental play and learning outcomes for all young children.
- Demonstrate responsive care and teaching practices for young children through the integration of assessment, theory, and practice.
- Critically assess the components of linguistically and culturally relevant, inclusive, age appropriate, anti-bias approaches in promoting optimum learning and development.
- 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.

**REQUIRED COURSES - Complete Levels 1, 2, 3 and 4 and
choose ONE (1) area of focused study.**

LEVEL 1		UNITS
CDECE 1	The Developing Professional	1
CDLL 52	Fieldwork/Preschool Techniques	3
CDECE 45	Child & Adolescent Development DS1	3
OR		
CDECE 47	Human Development DS1	3
CDECE 48	Child, Family & Community DS2	3
Subtotal Units		10
LEVEL 2		
CDECE 19	Health, Safety and Nutrition DS7	3
CDECE 50	Intro to Curriculum for Young Child	3
CDECE 53	Principles and Practices DS3	3
CDECE 61	Teaching in a Diverse Society D3	3
Subtotal Units		12
LEVEL 3		
CDECE 66	Observation and Assessment DS3	3
Subtotal Units		3
LEVEL 4		
CDECE 68	Practicum D3	3
Subtotal Units		3

Subtotal Units Level 1+Level 2+Level 3+Level 4 28
In addition to the 28 units listed above, choose and complete ONE (1) area of focused study option.

Child Behavior Option

CDECE 59	Guiding Young Children DS3	3
CDECE 259	Challenging Behaviors in Early Childhood	3
		Subtotal Units 6

Curriculum Option

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
		Subtotal Units 9

Family Child Care Option

CDFDC 212A	Family Child Care Management A	3
CDFDC 212B	Family Child Care Management B	3
		Subtotal Units 6

Working with Parents Option

CDF 210A	Skills Strat for Family Workers Pt. I	3
CDF 210B	Skills Strat for Family Workers Pt. II	3
		Subtotal Units 6

Infant/Toddler Option

CDECE 40	Infant Development & Educaring D4	3
CDECE 41	Toddler Development & Educaring D4	3
		Subtotal Units 6

Early Literacy Option

CDECE 34	Children's Literature DS3	3
CDECE 58	Language & Literacy in Early Childhood	3
		Subtotal Units 6

Special Needs Option

CDESED 5	Community Resources/Special Education	3
CDESED 67	Intro to Children with Special needs	3
CDESED 70	Curriculum for Special Needs	3
		Subtotal Units 9

School Age Option

CDSA 62	Creative Express for School Age Children	3
CDSA 63	The School Age Child	3
CDSA 65	School Age Curriculum	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 34-37

CERTIFICATE OF ACHIEVEMENT, EARLY CHILDHOOD EDUCATION (Plan Code: 3302)

This field of concentration 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.

REQUIRED COURSES—Complete Levels 1, 2, & 3 AND choose ONE (1) Area of Focused Study, as listed in the A.A. major requirements.

Other Program Requirements for the A.A. and Certificates 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 for an appointment.

CERTIFICATE OF ACCOMPLISHMENT, CDCE: ASSISTANT TEACHER CERTIFICATE

(Plan Code: 4055)

May assist in the instruction of children under the supervision of an Associate Teacher or above.

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, CDCE: ASSOCIATE TEACHER CERTIFICATE

(Plan Code: 4056)

May provide instruction and supervise assistant.

REQUIRED COURSES	UNITS	
CDECE 1	The Developing Professional	1
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 13		

CERTIFICATE OF ACCOMPLISHMENT, CDCE: 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.

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.

Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at <http://admissions.lbcc.edu/>

**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.

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.

REQUIRED COURSES		UNITS
Choose SIX (6) units from the following:		
CDECE 5	Community Resources/Special Education	3
CDECE 67	Intro to Children with Special Needs	3
CDECE 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.

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.

REQUIRED COURSES		UNITS
CDECE 40	Infant Development & Educaring D4	3
CDECE 41	Toddler Development & Educaring 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.

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 - SCHOOL AGE (Plan Code: 4065)**

The focus of this program of study is on developing skills and knowledge to support school age (K-8) children in before and after school settings. How to plan, implement and evaluate curriculum activities are emphasized.

REQUIRED COURSES		UNITS
Choose SIX (6) units from the following:		
CDSA 62	Creative Express for School Age Children	3
CDSA 65	School Age Curriculum	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.

REQUIRED COURSES		UNITS
Choose 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

CHILD DEVELOPMENT: SPECIAL EDUCATION ASSISTANT

The Child and Adult Development Department at Long Beach City College is committed to enhancing the quality of life for students, children and families throughout the life span. Embracing the diversity each student brings, the Department strives to empower individual learners through personal and professional growth. This department provides general and vocational education at the lower division level.

Contact Information:

(562) 938-4561; <http://www.lbcc.edu/ChildDevelopment/>

Department Head: Dana Van Sinden (562) 938-3274

Office: T2326 (LAC)

Dean: Mollie Smith

Full-Time Faculty: Paula Fisher, Debi Bowens, Julie Frumkin, Cathy Fountain, Kristin Pierce, Donna Rafanello, Kathleen Vokoun

ASSOCIATE IN ARTS (A.A.) DEGREE, 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 Learning Outcomes:

- Design, implement, and evaluate environments and activities that support optimum developmental play and learning outcomes in an inclusive environment for all children.
- Demonstrate responsive care and teaching practices for all children through the integration of assessment, theory, and practice.
- Apply effective guidance and interaction strategies to support all children's social learning, peer relations, and self-confidence.
- Incorporate ethical and professional standards engaging in collaborative learning and reflective practices.

REQUIRED COURSES	UNITS
CDECE 47 Human Development DS1	3
CDECE 59 Guiding Young Children DS3	3
CDESED 5 Community Resources/Special Education	3
CDESED 67 Intro to Children with Special Needs	3
CDESED 70 Curriculum for Special Needs	3
CDESED 69 Special Education Practicum	3
SIGN 1A or 1B American Sign Language, Beginning	3
Subtotal Units	21

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

CDECE 19 Health, Safety and Nutrition DS7	3
CDECE 61 Teaching in a Diverse Society D3	3
SIGN 1A or 1B American Sign Language, Beginning	3
SIGN2A or 2B American Sign Language, Intermed.	3
Subtotal Units	6
Total Units in the Major	27

Recommended: A valid Red Cross First Aid and CPR Certificate.

CERTIFICATE OF ACHIEVEMENT, 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.

Complete the 27 units of required courses as listed in the Associate Degree major requirements.

COLLEGE AND WORKFORCE PREPARATION

Long Beach City College offers certificates of competency in the non-credit program for adults seeking to learn English as a Second Language (ESL). Long Beach City College also offers a certificate of completion in the noncredit program to prepare students for College and Workplace Readiness.

Contact Information for Basic Adult Education:

(562) 938-3991 (LAC) or (562) 938-4699 (PCC);

www.lbcc.edu/LAR/BasicSkills.cfm

Department Head: Kim Anderson (562) 938-4706

Office: L212 or L217 (LAC); EE206 (PCC)

Dean: Karen Rothstein

Full-Time Faculty: Heidi Neu, Emily Barerra, Shelley Barnes, Christa Westaway, Scott Brueckner, Kim Anderson

Contact Information for English as a Second Language:

(562)938-3968; www.lbcc.edu/ESL

Department Head: Baruch Elimelech (562) 938-3965

Office: BB126G

Dean: Lee Douglas

Full-Time Faculty: Natalia Schroeder, Dennis Miller, Laurie Potter, Giselle Richards, Anna Rodriguez, Sudeepa Gulati, Maureen Mason, Baruch Elimelech

NON CREDIT CERTIFICATE OF COMPETENCY, COLLEGE AND WORKPLACE READINESS

(Plan Code: 4118)

The certificate in College and Workplace Readiness will certify that students have achieved the basic skills of reading, writing, computation and basic technology, financial and goal clarification necessary for success in pre-transfer level college courses. Furthermore, this certificate will verify that students have demonstrated skill achievement at levels that are necessary for pursuing high-skill, high wage employment.

REQUIRED COURSES	UNITS
BAE 601A Basic Skills Development	0
BAE 601B Basic Skills Development II	0
Total Units	0

Students must log in a minimum of 54 contact hours of laboratory work. The student must complete the required assessment/proficiency exams in reading, writing, and mathematics for each course with a score of 80% or above in each required assessment/proficiency exam.

**NON CREDIT CERTIFICATE OF COMPETENCY,
ENGLISH FOR EVERYDAY** (Plan Code: 4116)

Students completing English for Everyday certificate 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.
(Students must complete a minimum of 234 hours.)

REQUIRED COURSES	UNITS
ESL 645 English for Everyday 5	0

AND students choose from either of the course options to complete the certificate:

Option 1:

Select two from the following list:

ESL 640 English for Everyday 0	0
ESL 641 English for Everyday 1	0
ESL 642 English for Everyday 2	0
ESL 643 English for Everyday 3	0
ESL 644 English for Everyday 4	0
ESLLC 699 Basic Skills for ESL Students (at least 18 hours)	0

OR

Option 2:

ESLLC 699 Basic Skills for ESL Students (at least 18 hours)	0
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AND Select one of the following:

ESL 640 English for Everyday 0	0
ESL 641 English for Everyday 1	0
ESL 642 English for Everyday 2	0
ESL 643 English for Everyday 3	0
ESL 644 English for Everyday 4	0

Total Units 0

Students must master 70% or higher of the course concepts in order to be promoted into the next course in the sequence.

**NON CREDIT CERTIFICATE OF COMPETENCY,
READING SKILLS FOR ESL STUDENTS**
(Plan Code: 4117)

Students completing the certificate 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.
(Students must complete a minimum of 72 hours)

REQUIRED COURSES	UNITS
ESL 602F Reading Skills for ESL Students 6	0

AND students choose from either of the course options (option 1 OR 2) to complete the certificate:

Option 1: Select two of the following courses:

ESL 602A Reading Skills for ESL Students 1	0
ESL 602B Reading Skills for ESL Students 2	0
ESL 602C Reading Skills for ESL Students 3	0
ESL 602D Reading Skills for ESL Students 4	0
ESL 602E Reading Skills for ESL Students 5	0

OR

Option 2:

ESLLC 699 Basic Skills for ESL Students (at least 18 hours)	0
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AND Select one of the following:

ESL 602A Reading Skills for ESL Students 1	0
ESL 602B Reading Skills for ESL Students 2	0
ESL 602C Reading Skills for ESL Students 3	0
ESL 602D Reading Skills for ESL Students 4	0
ESL 602E Reading Skills for ESL Students 5	0

Total Units 0

Students must master 70% or higher of the course concepts in order to be promoted into the next course in the sequence.

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.

Contact Information: (562) 938-4374; www.lbcc.edu/speech

Department Head: Samira Habash (562) 938-4435

Office: T2338

Dean: Lee Douglas

Full-time Faculty: Kristina Dowlatshahi, Alexander

Hatlestad-Shey, Melinda Manlowe, Laura Mayuga, Lynne

Misajon, Christina Moorhead, Kari Ann Pike, Douglas

Raphael, Analisa Ridenour, Dawn Trickett

**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 student's 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.

Program Learning Outcomes:

- Develop and apply critical thinking and persuasive strategies.
- Demonstrate an understanding of basic communication theory.
- Formulate and implement effective oral presentations.

REQUIRED COURSES	UNITS
COMM 10/10H Elements of Public Speaking/Honors	3
Subtotal Units	3

IN ADDITION, complete SIX (6) units from LIST A:

LIST A		
COMM 20	Elements of Interpersonal Communication	3
COMM 30	Elements of Group Communication	3
COMM 60	Elements of Argumentation & Debate	3
Subtotal LIST A Units		6

IN ADDITION, complete SIX (6) units from LIST B:

LIST B		
Any LIST A course not used above		
COMM 25	Elements of Intercultural Communication	3
COMM 31	Elements of Leadership Communication	3
COMM 50	Elements of Oral Interpretation	3
Subtotal LIST B Units		6

IN ADDITION, complete THREE (3) units from LIST C:

LIST C		
Any LIST A or LIST B course not used above		
ANTHR 2/2H	Cultural Anthropology	3
PSYCH 1/1H	Introduction to Psychology	3
SOCIO 1/1H	Introduction to Sociology	3
ENGL 2	Introduction to Literature/Composition	3
OR		
ENGL 3/3H	Argumentative & Critical Writing	4
JOURN 20	Beginning Newswriting and Reporting	4
Subtotal LIST C Units		3-4
Total Units in the Major 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 inter- personal/ intercultural/group/leadership communication and informative/persuasive/argumentative/interpretive speaking.

Program Learning Outcomes:

- Develop and apply critical thinking and persuasive communication strategies.
- Formulate and implement effective oral presentations.

REQUIRED COURSE	UNITS
COMM 10	Elements of Public Speaking 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 & Debate 3
Subtotal Units 15	

IN ADDITION, select THREE (3) units from the following:

COMM 31	Elements of Leadership Communication	3
COMM 50	Elements of Oral Interpretation	3
Subtotal Units 3		

RECOMMENDED but not required:

ANTHR 2	Cultural Anthropology	3
MGMT 49A	Introduction to Management	3
MGMT 49B	Human Resources Management	3
PSYCH 1	Introduction to Psychology	3
PSYCH 11	Social Psychology	3
R_TV 40	On-Camera Performance	2.5
SOCIO 1	Introduction to Sociology	3
TART 1	Acting 1-Introduction to Acting	3.5
Total Units in the Major 18		

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.

Contact Information: (562) 938-4904; <http://cos.lbcc.edu/>
 Department Head: Gene Carbonaro (562) 938-4624
 Office: M121 (LAC)
 Dean: Mollie Smith
 Full-Time Faculty: Gerry Jenkins, Tahir Aziz, Garrett Whelan

**ASSOCIATE IN SCIENCE, COMPUTER SCIENCE (A.S.),
(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 broad based 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.

Program 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.

Complete ONE of the following series:

COMPUTER SCIENCE COURSES:	UNITS
CS 11	Computer Programming: C++ I 4
OR	
CS 21	Java: Computer Science 1 4
Subtotal Units 4	

Required Major Coursework:

CS 22	Data Structures and Algorithms	3
CS 51	Introduction to Computer Architecture	4
CS 61	Discrete Structures	4
OR		
MATH 60	First Calculus Course	5
MATH 70	Second Calculus Course	5
PHYS 3A	Physics for Sci. & Eng.-Mechanics	5.5
PHYS 3B	Physics for Sci. & Eng.-E & M	4.5

Subtotal Units 30-31
Total Units in the Major 34-35

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.

Contact Information: (562) 938-4904; <http://cos.lbcc.edu>
Department Head: Gene Carbonaro (562) 938-4624
Office: M121 (LAC)
Dean: Mollie Smith
Full-Time Faculty: Anthony Pagan, Garrett Whelan

ASSOCIATE IN SCIENCE (A.S.), 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.

Program Learning Outcomes:

- 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 CORE COURSES		UNITS
BCOM 15	Business Communications	3
COSA 50	Intro to IT Concepts & Applications	4
COSN 5	Computer Hardware Fundamentals	4
COSN 10	Networking Fundamentals	4
COSN 205	UNIX/LINUX Fundamentals	4
COSN 225	Microsoft Windows Client	3
COSS 271	Networking Security Fundamentals	3
Subtotal Units 25		

IN ADDITION, select any TWO (2) courses from the following:

BCOM 222	Job Search Skills	3
COSA 210	Intro to Project Management for IT	3
COSN 200	Wireless and Mobile Devices	2
COSN 210	LINUX Server Administration	4
COSN215	LINUX Networking and Security	4
COSN 230	Microsoft Windows Server	4
COSP 8	Visual Basic Programming	4
COSS 272	Computer Forensics and Investigation	3
COSS 273	Ethical Hacking and Countermeasures	4
CS 11	Computer Programming: C++I	4
CS 21	Java: Computer Science 1	4
Subtotal Units 5-8		

Total Units in the Major 30-33

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.

REQUIRED COURSES—Complete the 30-33 units of required courses as listed in the Associate Degree major requirements.

CERTIFICATE OF ACCOMPLISHMENT, MICROSOFT WINDOWS NETWORKING TECHNICIAN

(Plan Code: 4086)

Students will learn the skills to connect computers, devices and people.

REQUIRED COURSES		UNITS
COSN 10	Networking Fundamentals	4
COSN 200	Wireless and Mobile Devices	2
COSN 225	Microsoft Windows Client	3
COSN 230	Microsoft Windows Server	4
Total Units 13		

CERTIFICATE OF ACCOMPLISHMENT, CYBER SECURITY (Plan Code: 4106)

Students will learn the skills to investigate cyber-attacks or stop them before they even begin.

REQUIRED COURSES		UNITS
COSN 10	Networking Fundamentals	4
COSS 200	Wireless and Mobile Devices	2
COSS 271	Network Security Fundamentals	4
COSS 272	Computer Forensics and Investigation	3
COSS 273	Ethical Hacking and Countermeasures	4
Total Units 17		

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.

REQUIRED COURSES		UNITS
COSA 50	Intro to IT Concepts & Applications	4
COSN 5	Computer Hardware Fundamentals	4
Total Units 8		

CERTIFICATE OF ACCOMPLISHMENT, COMPUTER NETWORK TECHNICIAN (Plan Code: 4125)

Students learn the in-demand skills for running wired and wireless networks and prepare for a career in IT.

REQUIRED COURSES		UNITS
COSN 10	Networking Fundamentals	4
COSN 200	Wireless and Mobile Devices	2
Total Units 6		

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.

REQUIRED COURSES		UNITS
COSN 10	Networking Fundamentals	4
COSN 205	UNIX/LINUX Fundamentals	4
COSN 210	LINUX Server Administration	4
COSN 215	LINUX Networking and Security	4
Total Units		16

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.

Contact Information: (562) 938-4904; <http://cos.lbcc.edu>
 Department Head: Gene Carbonaro (562) 938-4624
 Office: M121 (LAC)
 Dean: Mollie Smith
 Full-Time Faculty: Tahir Aziz, Anthony Pagan, Renae Powell, Dena Laney, Garrett Whelan

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 Dominguez Hills' Computer Technology Program.

Program Learning Outcomes:

- 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 & Applications	4
COSN 5	Computer Hardware Fundamentals	4
COSP 7	Programming Concepts and Methodologies	4
COSP 8	Visual Basic Programming	4
COSW 20	Dynamic HTML Web Construction	4
CS 21	Java: Computer Science 1	4
STAT 1/1H	Elementary Statistics	4
MATH 50	Precalculus Math	5
Total Units in the Major		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.

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

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.

Contact Information:
 (562) 938-4502; <http://www.lbcc.edu/culinary/>
 Department Head: Haley Nguyen (562) 938-4104
 Office: V126 (LAC)
 Dean: Mollie Smith
 Full-Time Faculty: Haley Nguyen, Colleen Wong

PROGRAM PREREQUISITES

1. CULAR 20: Applied Food Services-Sanitation in Hotel & Restaurant Management (3 units) Students must complete CULAR20 prior to enrolling in the remaining courses in the Culinary Arts Program.
2. Students must provide proof of valid/current ServSafe® Food Protection Manager Certification before entering or continuing the Culinary Arts Program. If certificate is expired, or expires during program, students must re-certify/re-enroll in CULAR 20 (which results in an FPM Certificate for every student who successfully passes the course).
3. Students must provide annual proof of TB (Tuberculosis) clearance before entering or continuing the Culinary Arts program.
4. A school-specific chef's uniform, discipline-specific tools and equipment, and some baking ingredients are program requirements.

ASSOCIATE IN SCIENCE (A.S.) DEGREE, CULINARY ARTS (Plan Code: 2147)

Students learn skills for positions in food preparation for institutional, restaurant airline catering, convention center, cruise line, supermarket, and hotel restaurant-type food operations. Students will enhance their skills in a variety of cooking techniques. The associate degree will provide students with a broad based general education which will prepare them for global citizenry.

Program Learning Outcomes:

- Propose and assemble a complete three course meal from a given set of ingredients and select the most appropriate tools and equipment for each task.
- Compare and contrast the different knives used in a kitchen and effectively demonstrate their uses with competence.
- Analyze a plated meal, distinguish the different cooking techniques and methods used in its preparation, and critique the flavor, the plating, and the garnish.
- Demonstrate industry-standard kitchen safety and sanitation practices.

REQUIRED COURSES		UNITS
CULAR 20	App. Food Serv. Sanit in Hotel/Rstr. Mgmt	3
CULAR 225	Product and Menu Development	2
BCOM 262	Soft Skills for the Workplace	1
CULAR 202	Intro to Culinary Skills & Principles	5.5
CULAR 211	Intermed Culinary Skills & Principles	5.5
CULAR 218	World Cuisines: Asian	3

CULAR 219	World Cuisines: Mediterranean	3
CULAR 222A	Advanced Restaurant Operations	4
CULAR 222B	Advanced Restaurant Practicum	4
BCOM 222	Job Search Skills	3
Subtotal Units		34

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

CULAR 215	Buffets and Catering	1.5
CULAR 216	World Cuisine: American Regional	3
CULAR 217	Vegetarian & Specialty Cuisine	3
CULAR 230	Baking & Pastry Skills for Cul Students	3
Subtotal Units		6
Total Units in the Major		40

RECOMMENDED but not required courses:

LEARN 11	Introduction to Study Skills	1
MATH 825	Culinary Math	1
COSA 1	Computer and Information Competency	1
COSA 45	Living Online	2

CERTIFICATE OF ACHIEVEMENT, CULINARY ARTS

(Plan Code: 3147)

Students learn skills for positions in food preparation for institutional, restaurant airline catering, convention center, cruise line, supermarket, and hotel restaurant-type food operations. Students will enhance their skills in a variety of cooking techniques.

REQUIRED COURSES—Complete the 40 units of required courses as listed in the Associate Degree major requirements.

CUSTOMER SUPPORT

The Customer Support program at Long Beach City College is a comprehensive offering of courses to prepare students for careers in Customer Support and Help Desk technicians and will enhance skills for those who are currently employed in the field.

Contact Information:

(562) 938-4904; <http://cos.lbcc.edu/programs>
 Department Head: Gene Carbonaro (562) 938-4624
 Office: M121 (LAC)
 Dean: Mollie Smith
 Full-Time Faculty: Therese Butler, Suman Mudunuri, William Gailey, Clarissa Leiva, Zoila Rosillo, Miriam Lynch, Anthony Pagan, Renae Powell, Gene Carbonaro, Susan Cully

ASSOCIATE IN SCIENCE (A.S.) DEGREE,

CUSTOMER SUPPORT (Plan Code: 2123)

The Customer Support program at Long Beach City College is a comprehensive offering of courses to prepare students for careers in Customer Support and Help Desk technicians and will enhance skills for those who are currently employed in the field.

Program Learning Outcomes:

- Demonstrate and apply effective written and oral communication techniques to a variety of customer services situations.
- Problem solve common information technology failures.

REQUIRED COURSES **UNITS**

BCOM 15	Business Communications	3
BCOM 260	Business Telephone Procedures	1
BCOM 263	Customer Service	3
COSA 45	Living Online	2
COSA 50	Intro to IT Concepts & Applications	4
COSA 270	Help Desk Concepts	2
COSK 250	Data Processing	3
COSN 5	Computer Hardware Fundamentals	4
COSN 10	Networking Fundamentals	4
Subtotal Units		26

IN ADDITION, select TWO (2) courses from the following:

BCOM 25	Digital and Social Media	3
BCOM 262	Soft Skills for the Workplace	1
COSA 35	Microsoft Office	4
COSK 200	Beg Keyboarding and Document Production	3
COSS 271	Networking Security Fundamentals	4
Subtotal Units		4-8
Total Units in the Major		30-34

CERTIFICATE OF ACHIEVEMENT,

CUSTOMER SUPPORT (Plan Code: 3123)

The Customer Support Certificate of Achievement provide students with the in-demand technical knowledge, data inputting and communication strategies required for Customer Support and Help Desk technicians.

REQUIRED COURSES – Complete 30-34 units as listed in the Associate Degree major requirements.

CERTIFICATE OF ACCOMPLISHMENT,

BUSINESS COMMUNICATIONS (Plan Code: 4070)

Students will learn how to communicate effectively in the workplace.

REQUIRED COURSES **UNITS**

BCOM 15	Business Communications	3
OR		
BCOM 20	Business Writing	3
BCOM 261	Business English	3
BCOM 262	Soft Skills for the Workplace	1
Total Units		7

CERTIFICATE OF ACCOMPLISHMENT, DATA ENTRY

(Plan Code: 4071)

Students are prepared for data entry job positions by learning how to enter customer and account data.

REQUIRED COURSES **UNITS**

COSA 25	Microsoft Access for Windows	4
COSK 209	Speed/Accuracy Bldg for Typists	1
COSK 233	Computing Keyboarding Skills	1
COSK 250	Data Processing	3
Total Units		9

DANCE

Students completing this program should be fully prepared to move on to the next level of dance education.

Contact Information: (562) 938-4348 or (562) 938-4309;

<http://www.lbcc.edu/PerformingArts/DanceProgram.cfm>

Department Head: Cathy Crane (562) 938-4279

Office: J109 (LAC)

Dean: Dina Humble

Full-Time Faculty: Stephanie M. Powell,

Martha L. Z. Pamintuan

ASSOCIATE IN ARTS (A.A.) DEGREE, DANCE

(Plan Code: 1260)

Students learn an appreciation of dance as an art form as well as instruction in dance technique, choreography, and aesthetics. Students are also provided partial-lower division preparation for transfer to a baccalaureate degree in this field. This Associate Degree will prepare students for careers in body therapies, dance, choreography, performance, and teaching or dance studio operation.

Program Learning Outcomes:

- 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 (Semester 1)

	UNITS
DANCE 1 Dance Forms through the Ages	3
DANCE 14 Modern Dance 1	2
DANCE 20 Jazz Dance 1	2
DANCE 26 Ballet 1	2

Subtotal Units (for Semester 1) 9

REQUIRED COURSES (Semester 2)

	UNITS
DANCE 12A Pilates I	2
DANCE 15 Modern Dance 2	2
DANCE 21 Jazz Dance 2	2
DANCE 27 Ballet 2	2

Subtotal Units (for Semester 2) 8

REQUIRED COURSES (Semester 3)

	UNITS
DANCE 16 Modern Dance 3	2
DANCE 24 Hip Hop	2
DANCE 28 Ballet 3	2
DANCE 31 Choreography I	2
DANCE 41/1 Dance Performance	.5
OR	
DANCE 41/2 Dance Performance	1
OR	
DANCE 41/3 Dance Performance	2
OR	
DANCE 41AD Dance Performance	2.5
TART 42 Introduction to Stage Lighting	3

Subtotal Units (for Semester 3) 11.5-13.5

REQUIRED COURSES (Semester 4)

	UNITS
DANCE 5 Tap Dance 1	2
DANCE 41/1 Dance Performance	.5
OR	

DANCE 41/2 Dance Performance	1
OR	
DANCE 41/3 Dance Performance	2
OR	
DANCE 41AD Dance Performance	2.5

Also in Semester 4, complete ONE (1) of the following:

DANCE 17 Modern Dance 4	2
DANCE 29 Ballet 4	2
DANCE 32 Choreography 2	2

Also in Semester 4, complete ONE (1) of the following:

DANCE 3 Musical Theatre Dance	2
DANCE 6 Tap Dance 2	2
DANCE 12B Pilates 2	2
DANCE 13 Turns	2
DANCE 18A Folk and Ethnic Dance - African	2
DANCE 18B Folk and Ethnic Dance Belly Dance	2
DANCE 19 Hip Hop Dance History	2
DANCE 33 Dance Choreography Workshop	2
DANCE 46 Ballroom/Social Dance	2

Subtotal Units (for Semester 4) 6.5-8.5

Total Units 35-39

DATABASE MANAGEMENT

This program will 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.

Contact Information: (562) 938-4904; <http://cos.lbcc.edu/>

Department Head: Gene Carbonaro (562) 938-4624

Office: M121 (LAC)

Dean: Mollie Smith

Full-Time Faculty: Tahir Aziz, Therese Butler, John Craig,

Susan Cully, Dena Laney, Anthony Pagan, Renae Powell,

Garrett Whelan

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 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		Units
BCOM 15	Business Communications	3
COSA 25	Microsoft Access for Windows	4
COSP 7	Programming Concepts and Methodologies	4
COSP 36	System Analysis and Design	4
COSP 38	Database Concepts	4
COSP 238	Advanced Database Concepts	3
COSW 220	Web Development with PHP/MySQL	4
Total Units		26

IN ADDITION, Complete a MINIMUM of SIX (6) Units from the following:

COSA 210	Intro to Project Management for IT	3
COSN 205	UNIX/LINUX Fundamentals	4
COSN 225	Microsoft Windows Client	3
COSN 230	Microsoft Windows Server	4
Subtotal Units		6-8
Total Units in the Major 32-34		

CERTIFICATE OF ACHIEVEMENT, DATABASE MANAGEMENT (Plan Code: 3127)

The Database Management certificate of achievement is designed to provide the fundamental knowledge and skills required of data management professionals. This certificate will prepare students for a variety of roles suitable for an entry level position as a business analyst, data analyst, data scientist, database application programmer or junior database administrator. The program provides students with hands on experiences in three database systems including Microsoft Access, MySQL, and Microsoft SQL Server. Students learn to write SQL, create database objects, organize data, report and analyze, program forms, plan a database around a business need, normalize a relational database system, and build database web applications. Students have the opportunity to take a Microsoft Certification in Database Fundamentals as part of this certificate.

REQUIRED COURSES—Complete the 32-34 units of required courses as listed in the Associate Degree requirements.

CERTIFICATE OF ACCOMPLISHMENT, DATABASE SPECIALIST (Plan Code: 4080)

Students learn how to use Microsoft Access, MySQL, and Microsoft SQL Server. Create your own databases, forms and reports using SQL.

REQUIRED COURSES		UNITS
COSA 25	Microsoft Access for Windows	4
COSP 38	Database Concepts	4
COSP 238	Advanced Database Concepts	3
Total Units		11

CERTIFICATE OF ACCOMPLISHMENT, ANDROID APP DEVELOPER (Plan Code: 4119)

Students learn programming skills in Java or C++, Android App Development, and Database hands-on concepts.

REQUIRED COURSES **UNITS**

Take one sequence of:

CS 21	Java: Computer Science 1	4
OR		
CS 11	Computer Programming: C++1	4
COSP 38	Database Concepts	4
COSP 230	Android App Development in Java	3
Total Units		11

CERTIFICATE OF ACCOMPLISHMENT, PHP WEB PROGRAMMER (Plan Code: 4129)

Students will learn how to build robust web applications with PHP and MySQL.

REQUIRED COURSES **UNITS**

COSP 38	Database Concepts	4
COSW 10	Beginning Website Development	4
COSW 200	Introduction to JavaScript	3
COSW 220	Web Development with PHP/MySQL	3
Total Units		14

DIAGNOSTIC MEDICAL IMAGING SCIENCES (RADIOLOGIC TECHNOLOGY)

The Diagnostic Medical Imaging program at Long Beach City College is dedicated to providing high-quality education and clinical practicum to qualified students. It is responsive to the diverse needs of the local medical community. It specializes in the education and training that lead to entry-level employment as a competent, ethical health care professional, and an Associate of Science Degree. The program emphasizes the necessity of professional development and life-long learning.

Contact Information:

(562) 938-4169; <http://www.lbcc.edu/AlliedHealth/>

Department Head: Jim Steele (562) 938-4605

Office: M100 (LAC)

Dean: Paul Creason

Full-Time Faculty: Joseph Carfagno (Program Director) and Jim Steele (Clinical Coordinator)

Program Admission Requirements

Applications are not accepted until the following prerequisites are met:

1. Graduation from an accredited high school, or the equivalent.
2. Before students may begin the program, the following proficiencies must be met:
3. **READING:**
 - a. A passing score on the reading section of the Long Beach City College assessment test OR
 - b. Completion READ 82 or 83 at Long Beach City College with a grade of "C" or better, OR
 - c. Documentation from LBCC Counseling stating proficiency has been met.
4. **MATHEMATICS:**
 - a. A passing score on the Elementary Algebra Diagnostic Test (part of the LBCC Assessment Test, OR
 - b. Successful completion of a math course at the level of intermediate algebra (Math 130A or 130) or higher, OR
 - c. Documentation from LBCC Counseling stating proficiency has been met.

5. High school grade point average or current GPA is considered.
6. Completion of AH 60, AH 61, and ANAT 41 within seven years with a letter grade of "C" or better.
7. C.P.R. for Health Care Providers (American Heart Association Only) certification is required before the practicum phase, which begins 1st Fall semester.
8. Evidence of physical and emotional fitness by medical examination and personal interview. This is submitted in the Summer of the 1st year in DMI 20.
9. Students MUST keep the Admissions and Records Office AND the School of Health and Science advised of their current e-mail address, home address, and telephone number and any name changes. All changes MUST be submitted in writing.
10. A current background check is required to be submitted during the 1st spring semester.

Accreditation

Long Beach City College is fully accredited by the Western Association of Schools and Colleges. The program is approved by the American Registry of Radiological Technologies and the AART.

*Eligibility for the ARRT examination requires the candidate to complete an ARRT Accredited 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 www.ARRT.org.

**ASSOCIATE IN SCIENCE (A.S.) DEGREE,
DIAGNOSTIC MEDICAL IMAGING SCIENCES
(RADIOLOGIC TECHNOLOGY), (Plan Code: 2612)**

This field of concentration 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.

Program 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 affect the resultant image on a radiograph.
- Assess how radiation affects 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.

Prerequisite Courses

The following courses must be completed within five years prior to the first Spring Semester of the program:

REQUIRED COURSES		UNITS
ANAT 41	Anatomy & Physiology	5
AH 60	Medical Terminology	3
AH 61	Integration of Patient Care	2
		Total Units 10

FIRST YEAR

Spring Semester REQUIRED COURSES:

DMI 10	Introduction to Radiologic Technology	3
DMI 403	Cross Sectional Anatomy	3
		Subtotal Units 6

Summer Session REQUIRED COURSES:

DMI 20	Introduction to Radiologic Physics	3
		Subtotal Units 3

Fall Semester REQUIRED COURSES:

General Ed. Course (see explanation in footnote)	3
General Ed. Course (see explanation in footnote)	3

Computer Class - Any class which satisfies the computer portion of Information Competency Requirement for graduation. Recommended course: COSA 1. For complete listing see General

Education Course Pattern Guide.	1-4	
DMI 11	Radiographic Techniques	1
DMI 12	Contrast Fluoroscope/Radiographic Proced	3
DMI 21	Applied Radiological Physics	2
DMI 30	Positioning for General Diagnostic Rad	3
DMI 40A	Clinical Radiography	2.5
		Subtotal Units 18.5-21.5

Spring Semester REQUIRED COURSES:

DMI 24	Radiation: Biology and Protection	3
DMI 31	Positioning for Cranial Radiography	3
DMI 40B	Clinical Radiography	7.5
DMI 60	Radiologic Pathology	3
		Subtotal Units 16.5

SECOND YEAR

Summer Session REQUIRED COURSES:

DMI 40C	Clinical Radiography	8.5
		Subtotal Units 8.5

Fall Semester

General Ed. Course (see explanation in footnote)	3	
DMI 15	Computer Applications in Radiology	3
DMI 40D	Clinical Radiography	11
DMI 222	Venipuncture for Medical Imaging	.5
		Subtotal Units 17.5

Spring Semester REQUIRED COURSES:

General Ed. Course (see explanation in footnote)	3	
DMI 14	Trends and Self-Assessment in Rad Tech	3
DMI 40E	Clinical Radiography	11
DMI 61	Fluoroscopy	2
		Subtotal Units 19

RECOMMENDED but not required courses:

DMI 62	Mammography	3.5
LEARN 11	Learning and Academic Strategies	2

Total Units (in program) 89-92
Total Units (including Prerequisite) 99-102

**CERTIFICATE OF ACHIEVEMENT,
DIAGNOSTIC MEDICAL IMAGING SCIENCES
(RADIOLOGIC TECHNOLOGY) (Plan Code: 3612)**

The courses within the Certificate of Achievement in DMI will qualify the student to take the Board Examinations for the CRT, Fluoro Permit, and ARRT.

REQUIRED COURSES—Complete the 89-92 units of required courses as listed in the Associate Degree requirements.

**CERTIFICATE OF ACCOMPLISHMENT,
COMPUTED TOMOGRAPHY (Plan Code: 4045)**

The courses within the Certificate of Accomplishment in CT will qualify the student to take the Board Examinations for the ARRT- CT certification.

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 take the Board Examinations for the ARRT- MRI certification.

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

DIETETICS PROGRAM

The Dietetics program at Long Beach City College is the development of the student competency to provide nutritional care services in food service management and clinical nutrition care. This program is designed to train students to be employed as Dietetic Service Supervisors and Nutrition Assistants who function as managers/supervisors and nutritional care specialists in health care and nutrition related facilities.

Contact Information:

(562) 938-4193; <http://www.lbcc.edu/dietetics/>

Department Head: Debra Habberfield (562) 938-4336

Office: F115A (LAC)

Dean: Mollie Smith

Full-Time Faculty: Elvia Mieras, Dietetics Program Director,
Becky Black, Koby Moridzadeh, Michelle Fino

**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 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.

Program 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		UNITS
F_N 20	Nutrition and Life	3
F_N 21	Food Selection and Meal Preparation	4
F_N 224	Sanitation, Safety and Equipment	3
F_N 225	Intro to Food Service/Work Organizations	3
F_N 227	Supervision and Training Techniques	3
F_N 228	Food Production Management	3
F_N 230AC	Clinical Field Experience I (2 semesters required)	2,2
F_N 231	Menu Planning and Food Purchasing	3
F_N 232	Therapeutic Diets	3
Total Units in the Major		29

**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 F_N 228 and F_N232 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 ARTS (A.A.) DEGREE,
NUTRITION ASSISTANT (Plan Code: 3321)**

The Nutrition Assistant is a member of the dietetic health care team, functioning under the direction of a Registered Dietitian/ Nutritionist. 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 29-unit program, Nutrition Assistant program courses 11 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 pathway.

REQUIRED COURSES UNITS

Complete the coursework required for the Dietetic Service Supervisor Program.

IN ADDITION, complete the courses listed below.

F_N 234	Advanced Nutrition Care	3
F_N 235	Advanced Medical Nutrition Therapy	3
F_N 236	Dietetic Seminar	1
F_N 240AC	Clinical Field Experience II (2 semesters required)	2,2
Subtotal Units		11

RECOMMENDED but not required courses:

F_N 26	Nutrition for the Active Person	1
F_N 233	Special Topics in Health Care Dietetics	1
F_N 250	Nutrition for Culinary Arts	2
F_N 253	Food Handler Certification	1
F_N 255C	Nutrition for Adults & Aging	1
F_N 255D	Vegetarian Lifestyle	1
F_N 256	Weight Control & Energy Balance	2
F_N 260	Cultural Foods	.5
F_N 261	Cooking for Wellness	1
F_N 262	Cooking for Singles	1
Total Units in the Major		40

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 F_N 228 and F_N232 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.

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.

REQUIRED COURSES UNITS

F_N 20	Nutrition and Life	3
F_N 21	Food Selection and Meal Preparation	4
F_N 224	Sanitation, Safety and Equipment	3
F_N 225	Intro to Food Service/Work Organizations	3

F_N 227	Supervision and Training Techniques	3
F_N 228	Food Production Management	3
F_N 230AC	Clinical Field Experience I (2 semesters required)	4
F_N 231	Menu Planning and Food Purchasing	3
F_N 232	Therapeutic Diets	3

Total Units in the Major 29

CERTIFICATE OF ACCOMPLISHMENT, FORMULA ROOM TECHNICIAN (Plan Code: 4321)

This certificate of accomplishment will prepare a student to work in specialized formula rooms in hospitals and healthcare settings.

REQUIRED COURSES UNITS

F_N 20	Nutrition and Life	3
F_N 21	Food Selection and Meal Preparation	4
F_N 224	Sanitation, Safety and Equipment	3
F_N 232	Therapeutic Diets	3

Total Units 13

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.

Contact Information: (562) 938-4282;
<http://www.lbcc.edu/English/Journalism.cfm>
 Department Head: Rodney Rodriguez (562) 938-4358
 Office: P125A (LAC)
 Dean: Lee Douglas
 Full-Time Faculty: Pat McKean

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 Learning Outcomes:

- Write, design, and produce a publication.
- Prepare students for entry-level position 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-FOURTEEN (12-14) units from the following courses:

JOURN 1B	Digital Design and Publication	3
JOURN 5	Introduction to Public Relations	4
JOURN 6	Magazine Writing	3
JOURN 20	Beginning Newswriting and Reporting	4
JOURN 40	Social Media in Journalism	3
JOURN 80	Multimedia Newsroom: News	4
JOURN 81	Multimedia Newsroom: Features	4
JOURN 82	Multimedia Newsroom: Profiles	4
JOURN 83	Multimedia Newsroom: Politics	4
JOURN 86	Multimedia Editors: Design	4
JOURN 87	Multimedia Editors: Visuals	4
JOURN 88	Multimedia Editor Training: Management	4

Subtotal Units 12-14
Total Units in the Major 18-20

**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.

REQUIRED COURSES—Complete the 18-20 units of required courses as listed in the Associate Degree major requirements.

**DRAFTING - ARCHITECTURAL
(Occupational Program)**

The Drafting - Architecture occupational program creates an educational environment where students can achieve their individual goals by providing the necessary knowledge and skills to enter the design field of their choice by using the latest technologies and industry trends.

Contact Information:
(562) 938-4658 or (562) 938-4983;
<http://www.lbcc.edu/Architecture>
Department Head: Scott Fraser (562) 938-4505
Office: B105A (LAC)
Dean: Mollie Smith

**ASSOCIATE IN SCIENCE (A.S.), DRAFTING:
ARCHITECTURAL** (Plan Code: 2909)

This Associate Degree will prepare students for a design-related career and appropriate course selection may facilitate transfer to a professional degree program at a CSU/UC or private institution.

Program Learning Outcomes:

- Establish mastery of basic knowledge and skills and apply advanced technologies relevant to entering the architectural drafting and design field at an entry or advanced level.
- 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 built environment and perform tasks required within the architecture and/or environmental design professions.

REQUIRED COURSES		UNITS
ARCHT 60	Architectural Design	8
OR		
ARCHT 61	Architectural Design	4
AND		
ARCHT 62	Architectural Design	4
ARCHT 64	Architectural Design	8
OR		
ARCHT 65	Architectural Design	4
AND		
ARCHT 66	Architectural Design	4
ARCHT 70A	Architectural Design	8
OR		
ARCHT 71A	Architectural Design	4
Total Units in the Major 20-24		

**CERTIFICATE OF ACHIEVEMENT,
DRAFTING: ARCHITECTURAL - CORE SKILLS**

(Plan Code: 3906)

The Core Skills Certificate of Achievement will prepare students for an entry level position as an architectural drafter or junior draftsman in a variety of design professional settings and may serve as a foundation for specialization.

REQUIRED COURSES		UNITS
ARCHT 60	Architectural Design	8
OR		
ARCHT 61	Architectural Design	4
AND		
ARCHT 62	Architectural Design	4
ARCHT 64	Architectural Design	8
OR		
ARCHT 65	Architectural Design	4
AND		
ARCHT 66	Architectural Design	4
ARCHT 230	Building Information Modeling, Beginning	4

Recommended Courses but not required:

DRAFT 203	AutoCAD II, Advanced Concepts	4
OR		
DRAFT 204	3D Visualization/Animation	4
Total Units 20		

**CERTIFICATE OF ACHIEVEMENT,
DRAFTING: ARCHITECTURAL - ADVANCED SKILLS**

(Plan Code: 3913)

The Advanced Skills Certificate of Achievement will prepare students for an advanced position as an architectural drafter or draftsman in a variety of design professional settings and may serve as a foundation for specialization.

REQUIRED COURSES		UNITS
ARCHT 60	Architectural Design	8
OR		
ARCHT 61	Architectural Design	4
AND		
ARCHT 62	Architectural Design	4
ARCHT 64	Architectural Design	8
OR		

ARCHT 65	Architectural Design	4
AND		
ARCHT 66	Architectural Design	4
ARCHT 70A	Architectural Design	8
OR		
ARCHT 71A	Architectural Design	4
AND		
ARCHT 230	Building Information Modeling, Beginning	4
Subtotal Units		24

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

ARCHT 231	Building Information Modeling, Int.	4
ARCHT 232	Building Information Modeling, Adv.	4
ARCHT 240	Introduction to Green Design	3
ARCHT 241	Introduction to Leed	3
DRAFT 210	3D Printing Fundamentals I (FDM)	1.5
DRAFT 211	Laser Cutting Fundamentals	1.5
CARP 311	Carpentry 1	3
CARP 440	Blueprint Reading for Construction Trade	3
Subtotal Units		6

IN ADDITION, complete THREE-FIVE (3-5) units from the following:

ELECT 202	Electrical Mathematics	3
OR		
MATH 805	Modern Arithmetic	3
OR		
Higher Math Course (see available math courses)		3-5
Subtotal Units		3-5

Recommended Courses but not required:

DRAFT 203	AutoCAD II, Advanced Concepts	4
OR		
DRAFT 204	3D Visualization/Animation	4
Total Units		33-35

DRAFTING – MECHANICAL DESIGN

The Drafting - Mechanical Design (Occupational 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.

Contact Information:

(562) 938-4658 or (562) 938-4983;
<http://www.lbcc.edu/Architecture>
 Department Head: Scott Fraser (562) 938-4505
 Office: B105A (LAC)
 Dean: Mollie Smith

ASSOCIATE IN SCIENCE (A.S.) DEGREE,

DRAFTING: MECHANICAL DESIGN (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.

Program Learning Outcomes:

- 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 COURSES

	UNITS	
TEC 10 Introduction to Engineering Technology	1	
DRAFT 51A Industrial Drafting I	3	
DRAFT 51B Industrial Drafting II	3	
DRAFT 52A Advanced Industrial Drafting	3	
Subtotal Units		10

In addition, pick either Option A or B.

Option A: Intended for students that wish to enter the field upon completion.

Complete THREE-FOUR (3-4) units from the following:

TEC 211	Print Reading for Industry	3
DRAFT 52B	Descriptive Geometry	3
DRAFT 60	Geometric Dimensioning and Tolerancing	3
TEC 60	Computer Aided Design & Drafting (CADD)	4
DRAFT 211	Laser Cutting Fundamentals	1.5
DRAFT 210	3D Printing Fundamentals I (FDM)	1.5
Subtotal Units		3-4

AND Complete one of the following application (software)

options

1) CATIA (choose 2)		
DRAFT 220	Introduction to CATIA	3
DRAFT 221	Intermediate CATIA	3
DRAFT 222	Advanced CATIA	3
OR		
2) SolidWorks (choose 2)		
DRAFT 230	Introduction SolidWorks Level 1	3
DRAFT 231	Intermediate SolidWorks Level 2	3
DRAFT 232	Advanced SolidWorks Level 3	3
OR		
3) AutoCAD (choose 2)		
DRAFT 202	AutoCAD I, Fundamentals	4
DRAFT 203	AutoCAD II, Advanced Concepts	4
DRAFT 204	3D Visualization/Animation	4

Option A **Subtotal Units 9-12**

OR

Option B: Intended for students seeking to enter advanced coursework.

DRAFT 52B	Descriptive Geometry	3
DRAFT 60	Geometric Dimension & Tolerancing	3
TEC 60	Computer Aided Design & Drafting (CADD)	4

Option B **Subtotal Units 10**

Recommended but not required:

DRAFT 201	Introduction to Drafting	4
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Total Units in the Major 18-21

**CERTIFICATE OF ACHIEVEMENT,
DRAFTING: MECHANICAL DESIGN - 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.

REQUIRED COURSES		UNITS
TEC 10	Introduction to Engineering Technology	1
DRAFT 51A	Industrial Drafting I	3
DRAFT 51B	Industrial Drafting II	3
DRAFT 52A	Advanced Industrial Drafting	3
TEC 211	Print Reading for Industry	3
DRAFT 210	3D Printing Fundamentals I (FDM)	1.5
DRAFT 211	Laser Cutting Fundamentals	1.5
Subtotal Units 16		

AND Complete one of the following application (software) options

1) CATIA (choose 1)		
DRAFT 220	Introduction to CATIA	3
DRAFT 221	Intermediate CATIA	3
DRAFT 222	Advanced CATIA	3
OR		
2) SolidWorks (choose 1)		
DRAFT 230	Introduction SolidWorks Level 1	3
DRAFT 231	Intermediate SolidWorks Level 2	3
DRAFT 232	Advanced SolidWorks Level 3	3
OR		
3) AutoCAD (choose 1)		
DRAFT 202	AutoCAD I, Fundamentals	4
DRAFT 203	AutoCAD II, Advanced Concepts	4
DRAFT 204	3D Visualization/Animation	4

Recommended but not required

DRAFT 201	Introduction to Drafting	4
DRAFT 52B	Descriptive Geometry	3
TEC 60	Computer Aided Design & Drafting (CADD)	4
Total Units 19-20		

**CERTIFICATE OF ACHIEVEMENT,
DRAFTING: MECHANICAL DESIGN - ADVANCED SKILLS**

(Plan Code: 3913)

The Advanced Skills Certificate will prepare student for an advanced position as a mechanical drafter or intermediate level drafting position in a variety of design professional settings and will serve as a foundation for specialization.

REQUIRED COURSES		UNITS
TEC 211	Print Reading for Industry	3
TEC 10	Introduction to Engineering Technology	1
DRAFT 51A	Industrial Drafting I	3
DRAFT 51B	Industrial Drafting II	3
DRAFT 52A	Advanced Industrial Drafting	3
DRAFT 60	Geometric Dimension & Tolerancing	3
Subtotal Units 16		

AND Complete one of the following application (software) options

1) CATIA		
DRAFT 220	Introduction to CATIA	3
DRAFT 221	Intermediate CATIA	3

DRAFT 222	Advanced CATIA	3
OR		
2) SolidWorks		
DRAFT 230	Introduction SolidWorks Level 1	3
DRAFT 231	Intermediate SolidWorks Level 2	3
DRAFT 232	Advanced SolidWorks Level 3	3
OR		
3) AutoCAD (choose 2)		
DRAFT 202	AutoCAD I, Fundamentals	4
DRAFT 203	AutoCAD II, Advanced Concepts	4
DRAFT 204	3D Visualization/Animation	4

Subtotal Unit 8-9

IN ADDITION, select ONE (1) of the following courses:

DRAFT 52B	Descriptive Geometry	3
TEC 60	Computer Aided Design & Drafting (CADD)	4
Subtotal Units 3-4		

IN ADDITION, select ONE (1) of the following courses:

ELEC 225	Algebra & Trigonometry for Technicians	4
MATH 110	First Course in Algebra	5
OR		
Any Math course higher than Math 110		
Subtotal Units 4-5		

In ADDITION, Select ONE (1) of the following courses

DRAFT 210	3D Printing Fundamentals I (FDM)	1.5
DRAFT 211	Laser Cutting Fundamentals	1.5

Recommended but not required:

DRAFT 201	Introduction to Drafting	4
Total Units 31.5-34.5		

**CERTIFICATE OF ACCOMPLISHMENT,
AUTOCAD I, FUNDAMENTALS (108 Hrs)**

(Plan Code: 4015)

The Certificate of Accomplishment in AutoCAD I, Fundamentals (108 Hrs) 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).

REQUIRED COURSES

DRAFT 202	AutoCAD I, Fundamentals	4
Total Units 4		

**CERTIFICATE OF ACCOMPLISHMENT,
AUTOCAD II, ADVANCED CERTIFICATE (108 Hrs)**

(Plan Code: 4016)

The Certificate of Accomplishment in AutoCAD II, Advanced Certificate (108 Hrs) 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).

REQUIRED COURSES

DRAFT 203	AutoCAD II, Advanced Concepts	4
Total Units 4		

**CERTIFICATE OF ACCOMPLISHMENT,
AUTOCAD III, VISUALIZATION, RENDERING, ANIMATION**
(108 Hours),
(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.

REQUIRED COURSES	UNITS
DRAFT 204 3D Visualization/Animation	4
Total Units 4	

**CERTIFICATE OF ACCOMPLISHMENT,
CAD PROFESSIONAL CERTIFICATE (324 Hours),**
(Plan Code: 4018)

Successful completion of a series of 3 certificated classes (DRAFT 202 AutoCAD I, Fundamentals, DRAFT 203 AutoCAD II, Advanced Concepts and DRAFT 204 3D Visualization/Animation) allow students to apply for and be awarded the Certificates of Accomplishment in CAD Professional Certificate (324 Hours).

REQUIRED COURSES	UNITS
DRAFT 202 AutoCAD I, Fundamentals	4
DRAFT 203 AutoCAD II, Advanced Concepts	4
DRAFT 204 3D Visualization/Animation	4
Total Units 12	

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.

Contact Information:

(562) 938-4294; <http://www.lbcc.edu/electrical>
 Department Head: Scott Fraser (562) 938-4505
 Office: B105A (LAC)
 Dean: Mollie Smith
 Associate Dean: David Gonzales
 Full-Time Faculty: John Hauck, Scott Fraser, Lynn Shaw,
 Matt Turlo, Suzanne Engelhardt

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 non-electrical trades programs who want to enroll in ELECT 202; these students may contact Scott Fraser at sfraser@lbcc.edu for the Prerequisite Waiver form. At the Orientation, students will be required 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.

Program Learning Outcomes:

- Analyze different types of power distribution systems and apply these systems in a design environment.
- Design commercial building blueprint design project: applying motor, transformer, power distribution and short circuit calculations meeting all the requirements of the National Electrical Code.
- Design and evaluate control system programs for the operation of automation systems, including timing, counting, sequential and process control operations.

**ASSOCIATE IN SCIENCE (AS) DEGREE,
ELECTRICAL TECHNOLOGY (Plan Code: 2920)**

This Associate Degree will prepare students for career advancement once a Certificate of Achievement in Electrical Technology has been earned. Students prepare for entry-level employment in numerous electrical and electrically related trades. Upon completion of the Electrical Technology program, the student will be able to install, maintain, and repair electrical equipment and systems in a safe and workmanlike manner. This program is approved to offer whole general electrician curriculum as established by the Department of Industrial Relations - Division of Labor Standards Enforcement. Once a student has earned the Associate in Science (AS) Degree, Electrical Technology, that student will be allowed to register to take the General Electrician's Certification Exam. The California Contractor's License requirements recognize the courses listed below as partial fulfillment of the experience requirements.

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.

REQUIRED COURSES	UNITS
ELECT 202 Electrical Mathematics	3
ELECT 253 OSHA Standards for Construction Safety	2
ELECT 204 First Semester Fund. of DC Electricity	3
ELECT 210A Laboratory Practices 1	1
(204 and 210A must be taken concurrently)	
ELECT 225 Algebra & Trigonometry for Technician	4
ELECT 209 Second Sem. Fund of Motor/Generators	3
ELECT 210B Laboratory Practices 2	1
(209 and 210B must be taken concurrently)	
ELECT 240 Introduction to the National Electrical Code	3
ELECT 212 Third Sem. Fund of AC Electricity	3
ELECT 210C Laboratory Practices 3	1
(212 and 210C must be taken concurrently)	
ELECT 435A Electric Motor Control 1	2
ELECT 214 Fourth Semester AC Principles & Pract	3
ELECT 210D Laboratory Practices 4	1
(214 and 210D must be taken concurrently)	
ELECT 245 Electrical Code - Commercial	3
ELECT 250 Electrical Code - Industrial	3
ELECT 242 Electrical Code - Grounding	1.5
Subtotal Units 37.5	

IN ADDITION, complete SEVEN & ONE HALF (7.5) units from the following courses:

	UNITS
CISCO 250 Communications Cabling Installation	3
CISCO 251 Introduction to Networking	3
ELECT 41 Technical Applications of Minicomputers	2
ELECT 227 Variable Speed Drive Fundamentals	3
ELECT 230A Robotics Technology-Design	3
ELECT 230B Robotics Technology- Integration	3
ELECT 230C Robotics Technology-Applications	3
ELECT 261 Introduction to Renewable Energy	3
ELECT 262 Solar 1- Grid-Tied Solar Photovoltaics	3
ELECT 263 Solar 2- Advanced Solar Photovoltaics	3
ELECT 271 Electrical Cost Estimating 1	3
ELECT 275 Electrical Pipe Bending (A)	.5
ELECT 276 Electrical Pipe Bending (B)	.5
ELECT 277 Blueprint Reading for Electricians	3
ELECT 280 Traffic Signals Systems 1	3
ELECT 284 Traffic Signal Controllers & Digital Systems	3
ELECT 435B Electrical Motor Control 2	2

Subtotal Units 7.5

Total Units in the Major 45

The following is REQUIRED for the NATURAL SCIENCES requirement: Complete any one course (3 units minimum) appearing on the current CSU-GE Breadth List (Plan B) in areas B1 or B2

CERTIFICATE OF ACHIEVEMENT,

ELECTRICAL TECHNOLOGY (Plan Code: 3920)

Students prepare for entry-level employment in numerous electrical and electrically related trades.

Upon completion of the Electrical Technology program, the student will be able to install, maintain, and repair electrical equipment and systems in a safe and workmanlike manner. This program is approved to offer whole general electrician curriculum as established by the Department of Industrial Relations - Division of Labor Standards Enforcement. Once a student has earned the Certificate of Achievement, Electrical Technology, that student will be allowed to register to take the General Electrician's Certification Exam. The California Contractor's License requirements recognize the courses listed below as partial fulfillment of the experience requirements.

REQUIRED COURSES—Complete the 45 units of required courses as listed in the Associate Degree major requirements.

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.

REQUIRED COURSES	UNITS
CISCO 250 Communications Cabling Installation	3
Total Units 3	

**CERTIFICATE OF ACCOMPLISHMENT,
NETWORK INSTALLATION (Plan Code: 4090)**

Students earning this CISCO award have demonstrated knowledge and skills required for employment as an entry-level Cisco Systems communications network technician, including basic installation and configuration of network devices using the Cisco IOS.

REQUIRED COURSES	UNITS
CISCO 250 Communications Cabling Installation	3
CISCO 251 Introduction to Networking	3
Total Units 6	

**CERTIFICATE OF ACCOMPLISHMENT,
NETWORK INSTALLATION AND DESIGN**

(Plan Code: 4091)

Students earning this CISCO award have demonstrated knowledge and skills required to pass the Cisco Certified Network Associate (CCNA) certification exam, and are ready for immediate employment as a network administrator of Cisco switches, routers, and wireless access points.

REQUIRED COURSES	UNITS
CISCO 250 Communications Cabling Installation	3
CISCO 251 Introduction to Networking	3
CISCO 252 Routing and Access Control	3
CISCO 253 Cisco Networking III, LAN	3
Total Units 12	

**CERTIFICATE OF ACCOMPLISHMENT,
TRAFFIC SIGNAL SYSTEMS 1**

(Plan Code: 4029)

Students earning this Traffic Signal Systems 1 award have demonstrated knowledge and skills relating to the maintenance and troubleshooting of traffic signal control systems as dictated by the International Municipal Signals Association (IMSA).

REQUIRED COURSES	UNITS
ELECT 280 Traffic Signals Systems 1	3
ELECT 284 Traffic Signal Controllers & Digital Systems	3
Total Units 6	

**CERTIFICATE OF ACCOMPLISHMENT,
SOLAR PHOTOVOLTAICS INSTALLATION AND DESIGN**

(Plan Code: 4920)

Students earning this Solar Photovoltaics Installation and Design award have demonstrated knowledge and skills relating to the design, maintenance, and installation of solar systems as dictated by The North American Board of Certified Energy Practitioners (NABCEP).

REQUIRED COURSES	UNITS
ELECT 261 Introduction to Renewable Energy	3
ELECT 262 Solar 1- Grid-Tied Solar Photovoltaics	3
ELECT 263 Solar 2- Advanced Solar Photovoltaics	3
Total Units 9	

ENGINEERING

The Long Beach City College 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.

Contact Information:

(562) 938-4625; <http://www.lbcc.edu/math/>
 Department Head: Richard Weber (562) 938-4625
 Office: V217 (LAC)
 Dean: Paul Creason
 Full-time Faculty: Aundrea Tavakkoly, Azzam Shihabi, Rachel Coleman

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 Learning Outcomes:

- To serve students for the fulfillment of their own personal goals.
- To serve students to meet career/transfer requirements.

REQUIRED COURSES

		UNITS
CHEM 1A	General Chemistry	5.5
ENGL 1	Reading and Composition	4
ENGR 3B	Engineering Graphics	3
ENGR 17	Electrical Engineering Circuits	3
ENGR 17L	Electrical Engineering Circuits Lab	1
ENGR 35	Statics	3
ENGR 50	Introduction to Engineering	1
ENGR 54	Computer Methods	3.5
MATH 80	Third Calculus Course	5
PHYS 3A	Physics for Sci. & Engr.-Mechanics	5.5
PHYS 3B	Physics for Sci. & Engr.-E & M	4.5
Total Units in the Major		39

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 experiences, arguing positions, reevaluating beliefs, celebrating creativity, and exploring the limits of the self. Our aim is to offer students not only a chance to build specific skills, but also the opportunity to experience the value of those skills in a context of challenging academic dialogue.

Contact Information:

(562) 938-4036; <http://www.lbcc.edu/english/>
 Department Head: Dr. Rodney Rodriguez (562) 938-4358
 Office: P119A (LAC)
 Dean: Lee Douglas
 Full-Time Faculty: Natalie Burgess, Jason Casem, Sheng-Tai Chang, Geneva Chao, Berlyn Cobian, Jeff Epley, Brian Garcia, Nicole Glick, Christina Guillen, Diane Gunther, Lisa Fitzgerald, Jennifer Liddell, Pat McKean, Kathryn McMurray, Kirsten Moreno, David Morse, Allison Murray, Darya Myers, Jennifer Nellis, J-Son Ong, Velvet Pearson, Rodney Rodriguez, Karen Rose, Margaret Shannon, Daren Smoley, Anthony Starros, Jeff Wheeler, Laura Scavuzzo Wheeler

ASSOCIATE IN ARTS IN ENGLISH FOR TRANSFER DEGREE (A.A.-T.),

(Plan Code: 5003B/5003C)

The Associate in Arts in English for Transfer Degree at Long Beach City College is designed to prepare students for upper division study in critical reading, writing, and thinking with possible emphases in English or comparative literature, creative 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. 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 Learning Outcomes:

- Write academic prose with a clear purpose and effective logical, relevant support from sources.
- Develop and sustain a coherent interpretation of literature that acknowledges historical and cultural contexts.
- Compose poems and short works of fiction using various forms and techniques.

REQUIRED, complete TWO (2) courses:		UNITS
ENGL 2	Introduction to Literature/Composition	4
OR		
ENGL 4	Critical Analysis of Literature	4
ENGL 3/3H	Argumentative and Critical Writing/Honors	4
Subtotal Units		8

IN ADDITION, complete TWO (2) courses from LIST A:

LIST A		
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 LIST A Units 8

IN ADDITION, complete ONE (1) course from LIST B:
LIST B

Any LIST A course not used above		4
ENGL 26	Creative Writing 1	3
ENGL 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 & Contemporary Lit/Honors	3
ENGL 50A	Introduction to Poetry Writing	3
ENGL 51A	Introduction to Fiction Writing	3

Subtotal LIST B Units 3-4

IN ADDITION, complete ONE (1) course from LIST C:
LIST C

Any LIST B course not used above		3-4
ENGL 24	College Grammar	4
ENGL 32	Masterpieces/Asian Literature (in English)	3
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 LIST C Units 3-4

Total Units in the Major 22-24

**ASSOCIATE IN ARTS (A.A.) DEGREE,
LANGUAGE & LITERATURE** (Plan Code: 1395)

This field of concentration in the Language and Literature sequence prepares the student for baccalaureate study in English, Comparative Literature, and Liberal Arts.

LANGUAGE & LITERATURE

REQUIRED COURSES **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

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

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 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 Lit/Honors	3
ENGL 49/49H	Film and Literature/Honors	3

Subtotal Units 6

IN ADDITION, complete SIX (6) units from any of the courses listed in the Creative Writing Degree.

Subtotal Units 6

Total Units in the Major 26

**ASSOCIATE IN ARTS (A.A.) DEGREE,
CREATIVE WRITING** (Plan Code: 1396)

The Creative Writing sequence prepares the student for possible publication.

REQUIRED COURSES **UNITS**

ENGL 1/1H	Reading and Composition/Honors	4
ENGL 2	Introduction to Literature/Composition	4
ENGL 24	College Grammar	4
ENGL 26	Creative Writing 1	3

Subtotal Units 15

IN ADDITION, complete THREE (3) 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

Subtotal Units 3

IN ADDITION, complete SIX (6) units from any of the courses listed in the Language & Literature Degree

Subtotal Units 6

Total Units in the Major 24

RECOMMENDED courses but not required:

ENGL 6	Production of Literary Publications	3
ENGL 7	Editing a Literary Review	3
JOURN 25	Free Lance Writing	3

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).

Contact Information:

(562) 938-3160; <http://www.lbcc.edu/ESL/>

Department Head: Baruch Elimelech (562) 938-3965

Office: AA107F (PCC)

Dean: Lee Douglas

Full-Time Faculty: Natalia Schroeder, Dennis Miller, Laurie Potter, Giselle Richards, Anna Rodriguez, Sudeepa Gulati, Maureen Mason, Baruch Elimelech, Fran Cahill, Meena Singhal, Christiana Woerner

NON CREDIT CERTIFICATE OF COMPETENCY, ENGLISH FOR EVERYDAY (Plan Code: 4116)

Students completing English for Everyday certificate 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. (Students must complete a minimum of 234 hours.)

Program Learning Outcomes

- Create grammatically correct sentences at the end of the intermediate-level grammar classes.
- Write a focused thesis statement and maintain unity throughout an essay.
- Analyze short readings.

REQUIRED COURSES	UNITS
ESL 645 English for Everyday 5	0

AND students choose from either of the course options to complete the certificate:

Option 1:

Select two from the following list:

ESL 640 English for Everyday 0	0
ESL 641 English for Everyday 1	0
ESL 642 English for Everyday 2	0
ESL 643 English for Everyday 3	0
ESL 644 English for Everyday 4	0
OR	

Option 2:

ESLLC 699 Basic Skills for ESL Students (at least 18 hours)	0
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AND Select one of the following:

ESL 640 English for Everyday 0	0
ESL 641 English for Everyday 1	0
ESL 642 English for Everyday 2	0
ESL 643 English for Everyday 3	0
ESL 644 English for Everyday 4	0

Total Units 0

Students must master 70% or higher of the course concepts in order to be promoted into the next course in the sequence.

NON CREDIT CERTIFICATE OF COMPETENCY, READING SKILLS FOR ESL STUDENTS

(Plan Code: 4117)

Students completing the certificate 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.

(Students must complete a minimum of 72 hours)

REQUIRED COURSES	UNITS
ESL 602F Reading Skills for ESL Students 6	0

AND students choose from either of the course options (option 1 OR 2) to complete the certificate:

Option 1: Select two of the following courses:

ESL 602A Reading Skills for ESL Students 1	0
ESL 602B Reading Skills for ESL Students 2	0
ESL 602C Reading Skills for ESL Students 3	0
ESL 602D Reading Skills for ESL Students 4	0
ESL 602E Reading Skills for ESL Students 5	0
OR	

Option 2:

ESLLC 699 Basic Skills for ESL Students (at least 18 hours)	0
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AND Select one of the following:

ESL 602A Reading Skills for ESL Students 1	0
ESL 602B Reading Skills for ESL Students 2	0
ESL 602C Reading Skills for ESL Students 3	0
ESL 602D Reading Skills for ESL Students 4	0
ESL 602E Reading Skills for ESL Students 5	0

Total Units 0

Students must master 70% or higher of the course concepts in order to be promoted into the next course in the sequence.

FAMILY & CONSUMER STUDIES (FACS)

The FACS program prepares individuals to balance personal, family, and work place responsibilities throughout the life cycle.

Contact Information: (562) 938-4336;

Department Head: Debra Habberfield (562) 938-4336

Office: F124 (LAC)

Dean: Mollie Smith

ASSOCIATE IN ARTS (A.A.) DEGREE,

FAMILY AND CONSUMER STUDIES (Plan Code: 1335)

Students are provided lower division transfer classes for a bachelor's degree in Family and Consumer Sciences, and provide opportunities for developing skills and competencies for multiple roles of home, family and career.

Program Learning Outcomes:

- Develop skills and work place competencies needed for success in the work place.
- Analyze cultural forces and their effects on the individual and family.
- Evaluate and develop personal finance plans.

REQUIRED COURSES		UNITS
CDECE 47	Human Development	3
FACS 50	Consumer Awareness	3
FACS 64	Life Management	3
FD 9	Clothing Selection	3
OR		
FD 10	Textile Fibers and Fabrics	3
F_N 21	Food Selection and Meal Preparation	4
FD 20	Introduction to Fashion Merchandising	3
F_N 20	Nutrition and Life	3

Total Units in the Major 18-19

RECOMMENDED COURSES but not required:		
CDECE 66	Observation and Assessment DS3	3
FD 9	Clothing Selection	3
FD 10	Textile Fibers and Fabrics	3
FD 24	Beginning Sewing	1.5
F_N 21	Food Selection and Meal Preparation	4
F_N 252A	Cake Decorating Techniques	1.5
F_N 252B	Cake Decorating for Special Occasions	1.5
F_N 260	Cultural Foods	1.5
F_N 261	Cooking for Wellness.	1
F_N 262	Cooking for Singles	1
FLO 286A	Introduction to Floral Design-Fall Flowers	2
FLO 286B	Introduction to Floral Design-Spring Flowers	2

**CERTIFICATE OF ACHIEVEMENT,
FAMILY AND CONSUMER STUDIES** (Plan Code: 3335)

This Certificate of Achievement will prepare students for an entry-level position in any of the generalized fields of Family and Consumer Studies which include Child Development, Family & Consumer Studies, Fashion, Foods and Nutrition and Interior Design.

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

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.

Contact Information:

(562) 938-4336; LBCC.edu/fashiondesign
 Department Head: Debra Habberfield (562) 938-4336
 Office: F124 (LAC)
 Dean: Mollie Smith
 Full-Time Faculty: Debra Habberfield, Pamela Knights, Chantel Bryant

ASSOCIATE IN ARTS (A.A.) DEGREE, FASHION DESIGN
(Plan Code: 1324)

This degree will provide technical training as part of the undergraduate requirements necessary for those students wishing to transfer to a college or university in fashion design or related majors.

Program Learning Outcomes:

- Create an environment that promotes critical thinking, creativity, teamwork, soft skills, multicultural and global awareness and understanding of social organizational and technological systems.
- Provide educational opportunities in the field of fashion for career employment, advanced study, and professional development.
- Predict fashion trends and analyze form, silhouette, proportion, texture and drape or fabric to develop a fashion line for a target customer.

ENTRY LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 3	Intro to Careers in Design/Merchandising	2
FD 5	Intro Manufacturing for Design/Merchan	2
FD 9	Clothing Selection	3
FD 36A	Pattern Drafting I: Basic Block	1.5
FD 36B	Pattern Drafting II: Pattern Manipulation	1.5
FD 37A	Pattern Draping I: Basic Sloper	1.5
FD 37B	Pattern Draping II: Sloper Manipulations	1.5
FD 200	Fashion Prediction/Promotion: Crit View	1
FD 214	Quick Sketch Croquis Drawing	2
OR		
FD 215	Fashion Sketching I	2
FD 24	Beginning Sewing	1.5
OR		
FD 25	Intermediate Sewing	1.5
OR		
FD 26	Advanced Sewing	2

Subtotal Units 17.5-18

INTERMEDIATE LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 10	Textile Fibers and Fabrics	3
FD 20	Introduction to Fashion Merchandising	3
FD 27	Production Sewing	1.5
FD 32	History of Fashion	3
FD 38A	Fashion Design I	3
FD 38B	Fashion Design II	3
FD 45A	Computer Applications in Fashion	1.5

Subtotal Units 18

Total Units in the Major 35.5-36

RECOMMENDED but not required courses

ART 1 or 2	Art & Civilization	3
ART 15	Beginning Drawing	3
ART 41	Introduction to Computergraphics	3
FD 23	Fashion/Merchandise Buying	3
FD 29	Tailoring	2
FD 230	Fashion Design Laboratory	.5
FD 231	Fashion Design Lab – Garment Closures	.5
FD 240	Fashion Show Promotion and Management	2.5
FD 258	Swimwear	1
IBUS 20	Export-Import Business Practices	3
MKTG 40	Salesmanship	3
MGMT 80	Small Business Entrepreneurship	3

**ASSOCIATE IN ARTS (A.A.) DEGREE, FASHION DESIGN:
ASSISTANT DESIGNER** (Plan Code: 1325)

This degree will provide part of the undergraduate requirements necessary for those students wishing to transfer to a college or university in fashion or related majors.

Program Learning Outcomes:

- Create an environment that promotes critical thinking, creativity, teamwork, soft skills, multicultural and global awareness and understanding of social organizational and technological systems.
- Provide educational opportunities in the field of fashion for career employment, advanced study, and professional development.
- Predict fashion trends and analyze form, silhouette, proportion, texture and drape of fabric to develop a fashion line for a target customer.

ENTRY LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 3	Intro to Careers in Design/Merchandising	2
FD 5	Intro Manufacturing for Design/Merchan	2
FD 10	Textile Fibers and Fabrics	3
FD 27	Production Sewing	1.5
FD 36A	Pattern Drafting I: Basic Block	1.5
FD 36B	Pattern Drafting II: Pattern Manipulation	1.5
FD 214	Quick Sketch Croquis Drawing	2
FD 45A	Computer Applications in Fashion	1.5
FD 200	Fashion Prediction/Promotion: Crit View	1

Complete TWO (2) of the following courses:

FD 24	Beginning Sewing	1.5
FD 25	Intermediate Sewing	1.5
FD 26	Advanced Sewing	2

Subtotal Units for Entry Level 19-19.5

IN ADDITION, complete the following INTERMEDIATE LEVEL course:

FD 9	Clothing Selection	3
FD 45B	Advanced Computer Fashion Illustration	1.5

Subtotal Units for Intermediate Level 4.5

Total Units in the Major 23.5-24

RECOMMENDED but not required courses for students interested in degree or certificate:

ART 1 or 2	Art and Civilization	3
ART 15	Beginning Drawing	3
ART 31	Fundamentals of Art/Composition & Color	3
FD 20	Intro to Fashion Merchandising	3
FD 23	Fashion/Merchandising Buying	3
FD 29	Tailoring	2
FD 41	Fashion Show Production	2.5
FD 230	Fashion Design Laboratory	.5
FD 231	Fashion Design Lab-Garment Closures	.5
FD 258	Swimwear	1

CERTIFICATE OF ACHIEVEMENT, FASHION DESIGN

(Plan Code: 3324)

The Certificate of Achievement will prepare students for entry-level positions in the apparel design and manufacturing industry. This comprehensive course of study will provide students with technical, practical and conceptual development skills resulting in a professional fashion design portfolio.

ENTRY LEVEL CLASSES

REQUIRED COURSES		UNITS
COSA 1	Computer Information Competency	1
FD 3	Intro to Careers in Design/Merchandising	2

FD 10	Textile Fibers and Fabrics	3
FD 36A	Pattern Drafting I: Basic Block	1.5
FD 36B	Pattern Drafting II: Pattern Manipulation	1.5
FD 37A	Pattern Draping I: Basic Sloper	1.5
FD 37B	Pattern Draping II: Sloper Manipulations	1.5
FD 200	Fashion Prediction/Promotion: Crit View	1
FD 214	Quick Sketch Croquis Drawing	2
OR		
FD 215	Fashion Sketching I	2

Subtotal Units 15

Complete TWO (2) from the following:

FD 24	Beginning Sewing	1.5
FD 25	Intermediate Sewing	1.5
FD 26	Advanced Sewing	2
FD 29	Tailoring	2

Subtotal Units 3-4

INTERMEDIATE LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 5	Intro Manufacturing for Design/Merchan	2
FD 9	Clothing Selection	3
FD 27	Production Sewing	1.5
FD 32	History of Fashion	3
FD 38A	Fashion Design I	3
FD 38B	Fashion Design II	3
FD 41	Fashion Show Production	2.5
FD 45A	Computer Applications in Fashion	1.5
FD 45B	Advanced Computer Fashion Illustration	1.5
FD 244	Computer Patternmaking	1
FD 20	Introduction to Fashion Merchandising	3
OR		
IBUS 1	Introduction to International Business	3
FD 70	Work Experience Issues-Fashion Design	1
FD 71	Work Experience-Fashion Design	1
FD 258	Swimwear	1

Subtotal Units 28

ADVANCED LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 38C	Fashion Design III	3
FD 38D	Fashion Design IV	3
FD 39A	Garment Technical Packages	1
FD 40	Advanced and Production Pattern Drafting	1.5
FD 216	Fashion Portfolio Development	2

Subtotal Units 10.5

RECOMMENDED but not required courses

ART 1 or 2	Art & Civilization	3
ART 15	Beginning Drawing	3
ART 41	Introduction to Computergraphics	3
FD 23	Fashion/Merchandising Buying	3
FD 29	Tailoring	2
FD 230	Fashion Design Laboratory	.5
FD 231	Fashion Design Lab-Garment Closures	.5
FD 240	Fashion Show Promotion and Management	2.5
IBUS 20	Export-Import Business Practices	3
MKTG 40	Salesmanship	3
MGMT 80	Small Business Entrepreneurship	3

Total Unit 56.5-57.5

**CERTIFICATE OF ACHIEVEMENT,
FASHION DESIGN: ASSISTANT DESIGNER**

(Plan Code: 3325)

The Certificate of Achievement will prepare students for entry-level positions in the apparel design and manufacturing industry. This course of study will provide students with conceptual development and basic skills in fashion design.

REQUIRED COURSES		UNITS
COSA 1	Computer Information Competency	1
FD 3	Intro to Careers in Design/Merchandising	2
FD 10	Textile Fibers and Fabrics	3
FD 27	Production Sewing	1.5
FD 36A	Pattern Drafting I: Basic Block	1.5
FD 36B	Pattern Drafting II: Pattern Manipulation	1.5
FD 37A	Pattern Draping I: Basic Sloper	1.5
FD 37B	Pattern Draping II: Sloper Manipulations	1.5
FD 200	Fashion Prediction/Promotion: Crit View	1
FD 214	Quick Sketch Croquis Drawing	2

Complete TWO (2) of the following courses:

FD 24	Beginning Sewing	1.5
FD 25	Intermediate Sewing	1.5
FD 26	Advanced Sewing	2

Subtotal Units for Entry Level 19.5-20

IN ADDITION, complete the following INTERMEDIATE LEVEL courses:

FD 5	Intro Manufacturing for Design/Merchan	2
FD 9	Clothing Selection	3
FD 38A	Fashion Design I	3
FD 39A	Garment Technical Packages	1
FD 244	Computer Patternmaking	1
FD 45A	Computer Applications in Fashion	1.5
FD 45B	Advanced Computer Fashion Illustration	1.5
FD 216	Fashion Portfolio Development	2
FD 70	Work Experience Issues – Fashion Design	1
FD 71	Work Experience – Fashion Design	1

Subtotal Units for Intermediate Level 17

IN ADDITION, complete the following ADVANCED LEVEL course:

FD 38B	Fashion Design II	3
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Total Units 39.5-40

**CERTIFICATE OF ACHIEVEMENT,
FASHION DESIGN: PATTERNAKER (Plan Code: 3319)**

The Certificate of Achievement will prepare students for entry-level position as a patternmaker in the apparel design and manufacturing industry.

ENTRY LEVEL CLASSES

REQUIRED COURSES		UNITS
COSA 1	Computer Information Competency	1
FD 3	Intro to Careers in Design/Merchandising	2
FD 10	Textile Fibers and Fabrics	3
FD 36A	Pattern Drafting I: Basic Block	1.5
FD 36B	Pattern Drafting II: Pattern Manipulation	1.5
FD 214	Quick Sketch Croquis Drawing	2
FD 24	Beginning Sewing	1.5
OR		
FD 25	Intermediate Sewing	1.5
OR		
FD 26	Advanced Sewing	2

Subtotal Units for Entry Level 12.5-13

INTERMEDIATE LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 5	Intro Manufacturing Design/Merchand	2
FD 37A	Pattern Draping I: Basic Sloper	1.5
FD 37B	Pattern Draping II: Sloper Manipulations	1.5
FD 27	Production Sewing (one semester)	1.5
FD 45A	Computer Applications in Fashion	1.5
FD 244	Computer Patternmaking	1

Subtotal Units for Intermediate Level 9

ADVANCED LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 38A	Fashion Design I	3
FD 39A	Garment Technical Packages	1
FD 40	Advanced and Production Pattern Drafting	1.5
FD 70	Work Experience Issues-Fashion Design	1
FD 73	Vocational Work Experience	3

Subtotal Units for Advanced Level 9.5

Total Units 31-31.5

RECOMMENDED but not required courses:

ART 1 or 2	Art and Civilization	3
ART 15	Beginning Drawing	3
FD 20	Introduction to Fashion Merchandising	3
FD 38B-D	Fashion Design	3
FD 230	Fashion Design Laboratory	.5
FD 258	Swimwear	1

**CERTIFICATE OF ACHIEVEMENT,
FASHION DESIGN: SAMPLEMAKER (Plan Code: 3323)**

The Certificate of Achievement will prepare students for entry-level position as a samplemaker in the apparel design and manufacturing industry.

ENTRY LEVEL CLASSES

REQUIRED COURSES		UNITS
COSA 1	Computer Information Competency	1
FD 3	Intro to Careers in Design/Merchandising	2
FD 5	Intro Manufacturing for Design/Merchan	2
FD 10	Textile Fibers and Fabrics	3
FD 24	Beginning Sewing	1.5
FD 25	Intermediate Sewing	1.5
FD 244	Computer Patternmaking	1
OR		
FD 45A	Computer Applications in Fashion	1.5

Subtotal Units 12-12.5

INTERMEDIATE LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 27	Production Sewing	1.5
FD 36A	Pattern Drafting I: Basic Block	1.5
FD 36B	Pattern Drafting II: Pattern Manipulation	1.5
FD 70	Work Experience Issues-Fashion Design	1
FD 72 or 73	Work Experience-Fashion Design	2-3

Subtotal Units 7.5-8.5

Complete THREE-FOUR (3-4) units from the following:

BCOM 222	Job Search Skills	3
FD 26	Advanced Sewing	2
FD 29	Tailoring	2
FD 258	Swimwear	1

Subtotal Units 3-4

RECOMMENDED but not required courses:

ART 1 or 2	Art and Civilization	3
ART 15	Beginning Drawing	3
FD 20	Introduction to Fashion Merchandising	3
FD 230	Fashion Design Laboratory	2
FD 244	Computer Patternmaking	1

Total Units 22.5-25**FASHION MERCHANDISING**

The Fashion Merchandising program at LBCC 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.

Contact Information:

(562) 938-4336; www.lbcc.edu/fashiondesign
 Department Head: Debra Habberfield (562) 938-4336
 Office: F124 (LAC)
 Dean: Mollie Smith
 Full-Time Faculty: Debra Habberfield, Chantel Bryant

ASSOCIATE IN ARTS IN FASHION MERCHANDISING (A.A.),
(Plan Code: 1326)

This degree will provide industry specific training as part of the undergraduate requirements necessary for those students wishing to transfer to a college or university in Fashion Merchandising or related majors.

Program Learning Outcomes:

- Create an environment that promotes critical thinking, creativity, teamwork, soft skills, multicultural and global awareness and understanding of social organizational and technological systems.
- Provide educational opportunities in the field of fashion for career employment, advanced study and professional development.
- Calculate mark-ups, markdowns and open-to buy using formulas.

ENTRY LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 3	Intro to Careers in Design/Merchandising	2
FD 5	Intro Manufacturing for Design/Merchan	2
FD 9	Clothing Selection	3
FD 20	Introduction to Fashion Merchandising	3
Subtotal Units		10

INTERMEDIATE LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 10	Textiles Fibers and Fabrics	3
FD 22A	Merchandising for a Profit I	1.5
FD 22B	Merchandising for a Profit II	1.5
FD 32	History of Fashion	3
FD 45A	Computer Applications in Fashion	1.5
FD 200	Fashion Prediction/Promotion: Crit View	1
Subtotal Units		11.5

ADVANCED LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 23	Fashion/Merchandise Buying	3
FD 45B	Advanced Computer Fashion Illustration	1.5
Subtotal Units		4.5

RECOMMENDED but not required courses:

FD 24	Beginning Sewing	1.5
IBUS 52	Introduction to Supply Chain Management	3
COSA 50	Intro to IT Concepts & Applications	4
Total Units in the Major		26

CERTIFICATE OF ACHIEVEMENT,**FASHION MERCHANDISING** (Plan Code: 3326)

This Certificate of Achievement will prepare students for careers in all phases of retailing and manufacturing in the growing California Fashion Industry. Students will be equipped for entry-level positions such as Buyer, Assistant Buyer, Merchandise Manager, Fashion Coordinator, Fashion Director, Display Specialist, Stylist, Advertising, Sales Promotion, Department Manager, Consumer Consultant, Store Manager, Fashion Illustrator, Area Manager plus various opportunities in Apparel Manufacturing and Textiles.

ENTRY LEVEL CLASSES

REQUIRED COURSES		UNITS
COSA 1	Computer Information Competency	1
FD 3	Intro to Careers in Design/Merchandising	2
FD 5	Intro Manufacturing for Design/Merchan	2
FD 9	Clothing Selection	3
FD 20	Introduction to Fashion Merchandising	3
FD 24	Beginning Sewing	1.5
FD 200	Fashion Prediction/Promotion: Crit View	1
FACS 50	Consumer Awareness	3
OR		
FACS 64	Life Management	3
Subtotal Units for Entry Level		16.5

INTERMEDIATE LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 10	Textiles Fibers and Fabrics	3
FD 22A	Merchandising for a Profit I	1.5
FD 22B	Merchandising for a Profit II	1.5
FD 32	History of Fashion	3
FD 39A	Garment Technical Packages	1
FD 41	Fashion Show Production	2.5
FD 45A	Computer Applications in Fashion	1.5
FD 45B	Advanced Computer Fashion Illustration	1.5
OR		
FD 214	Quick Sketch Croquis Drawing	2
MKTG 40	Salesmanship	3
Subtotal Units for Intermediate Level		18.5-19

ADVANCED LEVEL CLASSES

REQUIRED COURSES		UNITS
FD 23	Fashion/Merchandise Buying	3
FD 70	Work Experience Issues-Fashion Design	1
FD 72 or 73	Work Experience-Fashion Design	2-3
MKTG 41	Marketing Communications	3
IBUS 1	Introduction to International Business	3
OR		
IBUS 20	Export-Import Business Practices	3
Subtotal Units for Advanced Level		12-13

RECOMMENDED but not required courses:

FD 24	Beginning Sewing	1.5
IBUS 52	Introduction to Supply Chain Management	3
COSA 50	Intro to IT Concepts & Applications	4
Total Units		47-48.5

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.

Contact Information:

(562) 938-3093; <http://www.lbcc.edu/Film/>

Department Head: Morgan Barnard (562)

938-4845

Office: K117(LAC)

Dean: Dina Humble

Full-Time Faculty: Elias Daughdrill, Danielle Stallings

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

Program Learning Outcomes:

- Ability to synthesize lower-division level of principles and theories related to visual story telling using cinematic structure.
- A respect for film as a means of personal, cultural, or social expression synthesizing production technique and creative vision.

REQUIRED ENTRY LEVEL COURSES		UNITS
FILM 1	Introduction to Film Studies	3
FILM 40	Introduction to Screenwriting	3
Subtotal Units for Entry Level		6

REQUIRED INTERMEDIATE LEVEL CLASSES		UNITS
FILM 2A	Film History I	3
OR		
FILM 2B	Film History II	3
FILM 20	Fundamentals of Digital Film Production	3
R_TV 216AC	Non-Linear Video & Film Editing	2.5
Subtotal Units for Intermediate Level		8.5

CHOOSE FIVE and ONE-HALF TO SIX (5.5-6) units from the following courses:

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

RECOMMENDED but not required courses:

ART 31	Fundamentals of Art/Composition & Color	3
ART 42	Intro 3D & Multimedia Computergraphics	3
ENGL 26	Creative Writing	3
PHOT 32	Introduction to Digital Photography	4
R_TV 14AD	Electronic Field Production	2.5
R_TV 15AC	Advanced TV Production	2.5
R_TV 34AD	Music Video Production	2.5
TART 1	Introduction to Acting	3
Total Units in the Major		20-20.5

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.

Contact Information:

(562) 938-4452; <http://www.lbcc.edu/FireScience/>

Department Head: Mike Biggs (562) 938-4452

Office: T2336 (LAC)

Dean: Mollie Smith

Full-Time Faculty: Frank Hayes, Brad Wilson

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 Learning Outcomes:

- Explore the history, development, structure, and functions of the American fire service.
- Apply prevention/protection/fire-fighting theories, principles, and concepts to address real-life situations in the field.
- Recognize the importance of and practice of the safety behaviors in a professional fire service setting.
- Analyze, interpret, and evaluate prevention/protection/fire-fighting theories, policies, practices, and procedures to develop strategies to prevent, control, and fight fires.

REQUIRED CORE COURSES		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, complete NINE (9) units from the following courses:

FIRE 53	Fire Hydraulics	3
FIRE 54	Hazardous Materials 1	3
FIRE 57	Introduction to Tactics and 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 203	Fire Tools, Equipment & Related Tech	1
FIRE 240	Firefighter I Physical Agility	.5
EMT 251	Emergency Medical Technician	3
EMT 251L	Emergency Medical Technician Lab	1.5
PUBAD 1	Introduction to Public Administration	3
Subtotal Units		9

Total Units in the Major 24

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.

REQUIRED COURSES—Complete the 24 units of required courses as listed in the Associate Degree major requirements.

FLORAL DESIGN

The Floral Design program is the development of student competency for employment as floral designers.

Contact Information:

(562) 938-4900 x6477; LBCC.edu/Floraldesign

Department Head: Debra Habberfield (562) 938-4336

Office: F124 (LAC)

Dean: Mollie Smith

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 Learning Outcomes:

- Develop foundational knowledge and skills for the design and production of industry acceptable floral displays.
- Develop work place competencies needed for employment in the floral design field.
- Analyze, interpret and exercise critical judgment in the evaluation of floral art forms.

ENTRY LEVEL CLASSES

REQUIRED COURSES	UNITS
FLO 286A Introduction to Floral Design: Fall Flowers	2
FLO 286B Introduction to Floral Design: Spring Flowers	2
MGMT 80 Small Business Entrepreneurship	3
OR	
MKTG 40 Salesmanship	3
Subtotal Units	7

Complete FIVE (5) units from the following:

ART 30 Fundamentals of Art/Volume, Plane & Form	3
OR	
ART 31 Fundamentals of Art/Composition & Color	3
OR	
HORT 15A Basic Horticulture	2
HORT 15B Basic Horticulture	2
Entry Level Total Units	12

INTERMEDIATE LEVEL CLASSES

REQUIRED COURSES	UNITS
FLO 287A Intermediate Floral Design – Wedding	2
FLO 287B Intermediate Floral Design – Sympathy	2
FLO 287C Intermediate Floral Design - Banquet Holiday	2
Intermediate Level Total Units	6

ADVANCED LEVEL CLASSES

REQUIRED COURSES	UNITS
FLO 288 Advanced Floral Design	2
FLO 289 Applied Floral Shop Operation	3
FLO 290 Floral Creativity and Competition	.5
Advanced Level Subtotal Units	5.5
Total Units in the Major	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.

REQUIRED COURSES—Complete the 23.5 units of required courses as listed in the Associate Degree major requirements.

FOREIGN LANGUAGES

The Foreign Languages program at Long Beach City College 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.

Contact Information:

(562) 938-4331; <http://www.lbcc.edu/ForeignLanguage/>

Department Head: Dr. Cynthia A. Quintero (562) 938-4611

Office: M101A

Dean: Lee Douglas

Full-Time Faculty: Dr. Marie-Laure Hinton, Rigo Ibarra,

Charlotte Jackson, Francisca Mejía-López, Dr. Cynthia

Quintero, Yukiko Tsuboi

ASSOCIATE IN ARTS FOR TRANSFER (A.A.-T.) DEGREE, SPANISH

(Plan Code: 5010B/C)

The Associate in Arts in Spanish for Transfer Degree at Long Beach City College 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.

Program Learning Outcomes:

- Proficiency in Spanish in reading, writing, listening, and speaking.
- Fundamental knowledge of language-learning skills and concepts.
- Development of cultural sensitivity, and awareness of the diversity of Hispanic culture.

- Ability to analyze and critique current events, culture, history, and literature.
- Development of strategies for making multidisciplinary connections, thus equipping students with a global perspective.
- Promotion of international understanding and exchange.

REQUIRED COURSES		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	Spanish for Spanish Speakers	5

IN ADDITION, complete ONE (1) course from LIST A:
LIST A

SPAN 25A	Advanced Spanish: Culture in Literature	3
SPAN 25B	Advanced Spanish: History	3
SPAN 25D	Advanced Spanish: Literature	3

Total Units in the Major 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 Learning Outcomes:

- Students will demonstrate reading comprehension at the appropriate level in the target language.
- Students will demonstrate aural comprehension at the appropriate level in the target language.
- Students will formulate ideas orally at the appropriate level in the target language.
- Students will formulate ideas in writing at the appropriate level in the target language.

PROFICIENCY EMPHASIS

Options in French, German, and Spanish at the Intermediate or Advanced Level.

For students who are studying French, German or Spanish and who want to achieve a level of competency for baccalaureate work, and/or to combine their foreign languages with another skill.

Complete 15 units from ONE LANGUAGE (French, German or Spanish) and five-six (5-6) additional units from the courses listed below:

REQUIRED COURSES		
Elementary Lang 1 (CHIN, FREN, GER, ITAL, JAPAN, SPAN)		5
Elementary Lang 2 (CHIN, FREN, GER, ITAL, JAPAN, SPAN)		5
Intermediate Language 3 (FREN, JAPAN, SPAN)		5

OR		
SPAN 9/9H	Spanish for Spanish Speakers	5
Intermediate Language 4 (FREN or SPAN)		5
OR		
SPAN 10/10H	Spanish for Spanish Speakers	5
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

Total Units in the Major 20-21

CERTIFICATE OF ACHIEVEMENT,

FOREIGN LANGUAGE (Plan Code: 3420)

The Certificate of Achievement currently offered in French, German, Japanese, and Spanish certifies for a potential employer that the student can communicate effectively, both verbally and in writing, in a wide range of situations, in both professional and personal settings.

REQUIRED COURSES- Complete the 20-21 units of required courses listed in the Associate Degree major requirements

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.

Contact Information: (562) 938-4168

Department Head: Dr. Mary Perrot (562) 938-4441

Office: D344 (LAC)

Dean: Paul Creason

Full-Time Faculty: Chris Carter, Kim Hatch, Ray Sumner

**ASSOCIATE IN ARTS IN GEOGRAPHY
FOR TRANSFER DEGREE (A.A.-T.),**

(Plan Code: 5009B/5009C)

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.

Program Learning Outcomes:

- 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 COURSES		UNITS
PGEOG 1	Physical Geography	3
GEOG 2	Elements of Cultural Geography	3
Subtotal Units 6		

In Addition, select two to three courses (6-9 units) from LIST A: LIST A

PGEOG 1L	Physical Geography Lab	1.5
GEOG 40	World Regional Geography	3
GEOG 48	Geography of California	3
GEOG 10	Intro. to Geographic Information Systems	3
PGEOG 2	Weather and Climate	3
GEOG 15F	Field Geography	2
Subtotal Units 6-9		

In Addition, select two courses (6 units minimum) from LIST B: LIST B

Any LIST A course not used above		
GEOG 5	The Global Economy	3
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 in the Major 18-22		

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 at LBCC 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.

Contact Information: (562) 938-4269 or (562) 938-4889;
<http://www.lbcc.edu/PhysicalScience/geol.cfm>
Department Head: Dr. Mary Perrot (562) 938-4441
Office: D344 (LAC)
Dean: Dr. Paul Creason
Full-Time Faculty: Dr. Doug Britton, Otto Figueroa

ASSOCIATE IN SCIENCE IN GEOLOGY FOR TRANSFER DEGREE (A.S.-T.), (Plan Code: 5503B/5503C)

The Associate in Science in Geology for Transfer degree at Long Beach City College 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.

Program Learning Outcomes:

- 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 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
CHEM 1A	General Chemistry	5.5
CHEM 1B	General Chemistry	5.5
MATH 60	First Calculus Course	5
MATH 70	Second Calculus Course	5
Total Units in the Major 30-31.5		

HISTORY

The History Department offers the Associate in Arts in History for Transfer Degree at Long Beach City College 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.

Contact Information:
(562) 938-4309; <http://www.lbcc.edu/histpolsci/>
Department Head: Elisabeth Orr (562) 938-4343
Office: T2340 (LAC)
Dean: Dina Humble
Full-time Faculty: SuShuan Chen, Sean Dinces, Gilbert Estrada, David Lehman, Mary Marki, Lisa Orr, Vanessa Crispin-Peralta, Melvin Ross, Steven Wallech

ASSOCIATE IN ARTS IN HISTORY FOR TRANSFER DEGREE (A.A.-T.), (Plan Code: 5006B/5006C)

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.

Program Learning Outcomes:

- 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 COURSES	UNITS
HIST 10/10H Hist./Early America (Colonial-Reconstr)/Honors	3
HIST 11/11H Hist./Modern America (Reconstr-Present)/Honors	3
Subtotal Units 6	

LIST A

Select a total of 6 units or 2 courses (1 course or 3 units from each section):

HIST 1A	History: Western (European) Civilization	3
OR		
HIST 2B	World History to 1500	3
HIST 1B	History: Western (European) Civilization	3
OR		
HIST 2C	World History Since 1500	3
Subtotal Units 6		

LIST B

Select 6 units; 1 course from each of the following 2 areas:

GROUP 1-Complete ONE (1) course not used in LIST A or any course below:

HIST 9A	History of China	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 the American Women	3
HIST 27A	History of the African-American to 1877	3
HIST 27B	Hist/African-American (Reconstr-Present)	3
Subtotal Unit 3		

GROUP 2-Complete ONE (1) course not used in LIST A or any course below:

HIST 5A	History of England & Great Britain	3
HIST 5B	History of England & Great Britain	3
HIST 8A/8AH	History of the Americas	3
HIST 8B/8BH	History of the Americas	3
HUMAN 1/1H	Comparative World Cultures/Honors	3
OR		
SOCSC 1/1H	Comparative World Cultures/Honors	3
HUMAN 7	American Pluralism and Identity	3
OR		
SOCSC 7	American Pluralism and Identity	3
Subtotal Units 3		

Total Units in the Major 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.

Contact Information: (562) 938-3092

Department Head: Scott Fraser (562) 938-4505

Office: MM103 (PCC)

Dean: Mollie Smith

Full-Time Faculty: Jorge Ochoa

ASSOCIATE IN SCIENCE (A.S.) DEGREE, HORTICULTURE (Plan Code: 2962)

This field of concentration is designed to furnish students with knowledge of the entry-level skills necessary to embark upon a career in the horticulture industry. It includes emphasis on practical applications leading to career advancement. 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.

Program 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	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 or 15B	Basic Horticulture	2
Subtotal Units 4		

IN ADDITION, complete TWENTY (20) units from the following courses:

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 or 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 & Safety	3
MGMT 58	Leadership and Supervision	3
MGMT 80	Small Business Entrepreneurship	3
MGMT 47	Essentials of Marketing	3

Subtotal Units 20

Total Units in the Major 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.

REQUIRED COURSES—Complete the 34 units of required courses as listed in the Associate Degree major requirements.

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.

Contact Information: (562) 938-4452;

<http://www.lbcc.edu/HumanServices/>

Department Head: Mike Biggs (562) 938-4452

Office: T2336 (LAC)

Dean: Mollie Smith

Full-Time Faculty: Annahita Mahdavi, Sheri Zampelli.

ASSOCIATE IN ARTS (A.A.) DEGREE, HUMAN SERVICES

(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. 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 Learning Outcomes:

- Develop a psychosocial treatment plan for a client.
- Analyze information and assess level of crisis intervention needed to best meet client needs.

REQUIRED CORE COURSES	UNITS
HS 1 Introduction to Social Work	3
HS 43 Case Management: Treatment & Aftercare	3

OR		
HS 50	Law and Ethics	3
HS 207	Development of Helping/Listening Skills	3
HS 72A	Fieldwork in Human Services (A)	3

Subtotal Units 12

IN ADDITION, Complete TWELVE (12) units from any of the following courses (emphasis on ONE GROUP is recommended):

GERONTOLOGY GROUP

F_N 20	Nutrition & Life	3
HS 26	Introduction to Gerontology	3
HS 45	Stress Management for Case Managers	3

CRIMINAL JUSTICE GROUP

ADJUS 14	Juvenile Law and Procedures	3
ADJUS 20	Introduction to Corrections	3
HS 7	Introduction to Victimology	3
HS 40A	Introduction to Addictive Behaviors	3
HS 40B	Introduction to Addictive Behaviors	3
HS 41	Introduction to Chemical Dependency	3
HS 43	Case Management: Treatment & Aftercare	3
HS 46	Physiology and Pharmacology of Drugs	3
SOCIO 11	Race & Ethnic Relations in the U.S.	3

DOMESTIC VIOLENCE GROUP

ADJUS 253	Understanding Domestic Violence	3
HS 43	Case Management: Treatment & Aftercare	3
HS 50	Law and Ethics	3
HS 260	Domestic Violence Intervention Strategies	3

GENERAL HUMAN SERVICES GROUP

ECON 1	Macro Economics Analysis	3
HS 40A	Intro to Addictive Behaviors	3
HS 40B	Intro to Addictive Behaviors	3
HS 43	Case Management: Treatment & Aftercare	3
HS 45	Stress Management for Case Managers	3
HS 47	Intervention, Treatment & Recovery	3
HS 48	Group & Family Process	3
HS 50	Law and Ethics	3
HS 252	Co Occurring Disorders	3
HS 260	Domestic Violence Intervention Strategies	3
PUBAD 1	Introduction to Public Administration	3
SOCIO 2	Modern Social Problems	3
COMM 20	Elements of Communication	3

FAMILY SERVICES GROUP

ADJUS 253	Understanding Domestic Violence	3
CDECE 47	Human Development	3
FACS 50	Consumer Awareness	3
FACS 64	Life Management	3
HS 40A	Introduction to Addictive Behaviors	3
HS 40B	Introduction to Addictive Behaviors	3
HS 47	Intervention, Treatment & Recovery	3
HS 48	Group & Family Process	3
HS 242	Conflict Resolution/ Mediation	3
HS 255	Alcohol & Drug Prevention & Education	3
HS 260	Domestic Violence Intervention Strategies	3
SOCIO 11	Race & Ethnic Relations in the U.S.	3
SOCIO 40	Sociology of the Family	3

Subtotal Units 12

Total Units in the Major 24

CERTIFICATE OF ACHIEVEMENT, HUMAN SERVICES

(Plan Code: 3810)

This Certificate of Achievement will prepare students for an entry-level position in the human services/social work field.

REQUIRED COURSES—Complete the 24 units of required courses as listed in the Associate Degree 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.

Contact Information:(562) 938-4282; <http://www.lbcc.edu/English/Journalism.cfm>

Department Head: Rodney Rodriquez (562) 938-6358

Office: P125 (LAC)

Dean: Lee Douglas

Full-Time Faculty: Patrick McKean, Walter Hammerwold

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.

REQUIRED COURSES		UNITS
JOURN 10	Intro to Global Media Communications	3
JOURN 20	Beginning Newswriting and Reporting	4
JOURN 80	Multimedia Newsroom: News	4
OR		
JOURN 81	Multimedia Newsroom: Features	4
OR		
JOURN 82	Multimedia Newsroom: Profiles	4
OR		
JOURN 83	Multimedia Newsroom: Politics	4
		Subtotal Units 11

Select One (1) course from List A below:

LIST A:

JOURN 5	Introduction to Public Relations	4
JOURN 35	Photojournalism	3
OR		
JOURN 36	Digital Photojournalism	3
JOURN 86	Multimedia Editors: Design	4
OR		
JOURN 87	Multimedia Editors: Visuals	4
OR		
JOURN 88	Multimedia Editor Training: Management	4

Subtotal Units 3-4**Select TWO (2) courses from List B below:**

LIST B:

PHOT 10	History of Photography	3
JOURN 1A	Digital Design and Publication	3
STAT 1/1H	Elementary Statistics/Honors	4
COMM 10	Elements of Public Speaking	3
ECON 1/1H	Macro Economic Analysis/Honors	3
OR		
ECON 2/2H	Micro Economic Analysis/Honors	3
POLSC 1/1H	Intro to American Government/Honors	3
POLSC 2	Comparative Government	3
ENGL 3/3H	Argumentative and Critical Writing/Honors	3
PHIL 12	Introduction to Logic	3
OR		
PHIL 22	Symbolic Logic	3
COMM 60	Elements of Argumentation and Debate	3

Subtotal Units 6-7**Total Units in the Major 20-22****ASSOCIATE IN ARTS (A.A.) IN JOURNALISM – NEWSPAPER/MAGAZINE EMPHASIS** (Plan Code: 1411)

This field of concentration, 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.

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, 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 in the Major 23-24**

ASSOCIATE IN ARTS (A.A.) IN JOURNALISM

PUBLIC RELATIONS EMPHASIS (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

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 81 Multimedia Newsroom: Features	4
JOURN 82 Multimedia Newsroom: Profiles	4
JOURN 83 Multimedia Newsroom: Politics	4

Subtotal Units 8

Total Units in the Major 25

ASSOCIATE IN ARTS (A.A.) IN JOURNALISM – PUBLICATION SPECIALIST EMPHASIS

(Plan Code: 1413)

The Publication 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.

REQUIRED COURSES	UNITS
JOURN 1A Digital Design and Publication	3
JOURN 6 Magazine Writing	3
JOURN 20 Beginning Newswriting and Reporting J	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 in the Major 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.

REQUIRED COURSES	UNITS
ENGL 1/ENGL 1H Reading & Composition/Honors	4
OR	
ENGL 105 Fundamentals of Writing	4
PHOT 31 Basic Photography - Black and White	3
PHOT 32 Introduction to Digital Photography	3
PHOT 35 Photography for Publication	3
Subtotal Units	13

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-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.

Contact Information:

(562) 938-4378 (LAC) or (562) 938-3934 or (562) 938-3939 (PCC); <http://www.lbcc.edu/Kinesiology/>

Department Head: Casey Crook (562) 938-4242,
Karen Kane (562) 938-4229

Office: Q105 (LAC)

Dean: Paul Creason

Full-Time Faculty: Gary Anderson, Matt Barbier, Jonathan Charette, Mark Cipolla, Casey Crook, John Hall, Barbara Jackson, Karen Kane, Brittany Jensen Lomeli, Shellie McCall, Marv Miller, Chris Oeding, Mike Reisbig, John Smith, Karen Vigilant

ASSOCIATE IN ARTS IN KINESIOLOGY FOR TRANSFER DEGREE (A.A.-T.),

(Plan Code: 5004B/5004C)

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 Learning Outcomes:

- Demonstrate proficiency in skills needed in activities commonly included in a human movement program.
- Examine and evaluate physical activities and their relationship to wellness and fitness.
- Recognize various career opportunities in the field of human movement.

REQUIRED COURSES		UNITS
KINPP 1	Introduction to Kinesiology	3
ANAT 1	Human Anatomy	4
PHYSI 1	Human Physiology	5
Total Units		12

IN ADDITION, complete ONE (1) course from at least THREE (3) different areas of the following list:

AQUATICS

KING 76	Swimming	1
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COMBATIVES

KING 66	Self Defense	1
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FITNESS

KINPF 4	Deep Water Aerobics	1
KINPF 6	Dance Aerobics	1
KINPF 42	Swimming Fitness	1
KINPF 54	Weight Training	1

INDIVIDUAL SPORTS

KING 10	Badminton	1
KING 84	Tennis	1

TEAM SPORTS

KING 14	Basketball	1
KING 70	Soccer	1
KING 74	Softball	1
KING 86	Touch Football	1
KING 90	Volleyball	1

Subtotal Units 3

IN ADDITION, complete TWO (2) courses from the list below:

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
KINPP 23	First Aid and Safety	3

Subtotal Units 7-10.5

Total Units in the Major 22-25.5

ASSOCIATE IN ARTS (A.A.), 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 Learning Outcomes:

- Demonstrate knowledge of rules, strategies, techniques, and etiquette of various activities to promote lifelong fitness.
- 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, complete SIX (6) units from the following:

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 (4) of the following categories:

ACTIVITY THEORY

KINPP 70A	Exercise Science & Fitness Assessment	3
KINPP 70B	Fitness Program Design & Instruction	3
KINPP 230	Fieldwork Observation in Kinesiology	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	1

INDIVIDUAL & DUAL ACTIVITIES

KING 10	Badminton	1
KING 10B	Badminton	1
KING 84	Tennis	1

FITNESS

KINA 1AD	PE for the Physically Limited	1
KINPF 6	Dance Aerobics	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	Power Lifting	1
KINPF 53B	Power Lifting	1
KINPF 54	Weight Training	1
KINPF 54B	Weight Training	1

KINPF 84A	Fitness & Wellness	1
KINPF 84B	Fitness & Wellness	1

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

Subtotal Units 9

INTERCOLLEGIATE ATHLETICS

KINIA 1AD	Baseball: Men	3
KINIA 2AD	Off-Season Conditioning for Athletes	.5-3
KINIA 3AD	Basketball: Men	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 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 in the Major 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.

REQUIRED COURSES	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		

CERTIFICATE OF ACCOMPLISHMENT, PERSONAL TRAINER

(Plan Code: 4700)

This certificate prepares students for national certification testing and is recognized in the Greater Long Beach area for enhanced employment opportunities in the field of personal training.

REQUIRED COURSES	UNITS	
KINPP 70A	Exercise Science & Fitness Assessment	3
KINPP 70B	Fitness Program Design & Instruction	3
KINPP 230	Fieldwork Observation in Kinesiology	3
KINPP 233	Techniques of Strength and Conditioning	3
KINPP 23	First Aid and Safety	3
F_N 26	Nutrition for the Active Person	1
Total Units 16		

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.

Contact Information: (562) 938-4708;

<http://lib.lbcc.edu/library-technician-program.htm>

Department Head: Ramchandran Sethuraman (562) 938-4582

Office: L121 (LAC)

Dean: Karen Rothstein

Full-Time Faculty: Colin Williams, Dele Ladejobi, Nenita

Buenaventura, Shamika Simpson, Ward Smith

ASSOCIATE IN ARTS, LIBRARY TECHNICIAN (A.A.),

(Plan Code: 1030)

The Long Beach City College Library Technician Associate of Arts Degree is designed to teach the fundamentals of knowledge and skills needed for today's Library Technicians. Students can earn this degree by completing the 18 units of required Library Technician courses, in addition to completing the 42 general requirement and electives units that LBCC offers. 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 the Internet.

Program Learning Outcomes:

- Students will synthesize the theoretical knowledge and the practical skills for all major components of a working library.
- Examine and compare information from various sources to evaluate reliability, validity, accuracy, authority, timeliness, and point of view or bias.
- Identify and internalize library standards, principles, organization, theoretical knowledge, and practices.
- Demonstrate, via hands-on exercises and activities, the skills required to work and perform at a library technician level.

REQUIRED COURSES		UNITS
LIB 3	Library, Technology and Internet Literacy	3
LIB 201	Introduction to Cataloging	3
LIB 202	Introduction to Access Services	3
LIB 203	Introduction to Acquisitions	3
LIB 204	Introduction to Reference Services	3
Subtotal Units 15		

IN ADDITION, complete ONE (1) of the following:

COSA 30	Introduction to Computers	3
COSA 35	Microsoft Office	4

Subtotal Units 3-4

Total Units in the Major 18-19

MATHEMATICS

The Long Beach City College Mathematics program is to foster an environment that both challenges and supports its students. The primary purposes of the educational program offered by the department are:

- 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.

Contact Information:

(562) 938-4168 or (562) 938-4428; <http://www.lbcc.edu/math>

Department Head: Rich Weber (562) 938-4625

Office: V217 (LAC)

Dean: Paul Creason

Full-Time Faculty: Bhagirathi Anand, Dr. Mohammed Araeipour, Ladera Barbee, Pablo Bert, Terentie Bortis, Rachel Coleman, Jami Emigh, Cindy Enrigue, Moises Gutierrez, Kristin Hartford, Jong Kim, Nancy Mahan, Robert Maxell, Mehdi Mirfattah, Michael Nasab, Jesse Nason, Jair Nepomuceno, Ratanamuny Ngo, Dr. Orchid Nguyen, Simone Nguyen, John (Kevin) Ryan, Dr. Azzam Shihabi, Aundrea Tavakkoly, Dr. James Wan, Dr. Jacqueline Ward, Conor Whelan, May Xu, Michael Zugates

ASSOCIATE IN SCIENCE IN MATHEMATICS FOR TRANSFER DEGREE (A.S.-T.),

(Plan Code: 5500 B/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.

Program Learning Outcomes:

- To serve students to meet graduation for an Associate degree in science mathematics for transfer.
- To serve students to meet career/transfer requirements.

REQUIRED COURSES		UNITS
MATH 60	First Calculus Course	5
MATH 70	Second Calculus Course	5
MATH 80	Third Calculus Course	5
MATH 84	Intro Differential Eqns and Linear Alg	5
Subtotal Units 20		

IN ADDITION, Complete ONE (1) Course from LIST A:

LIST A

MATH 55	Discrete Mathematics	4
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
ENGR 54	Computer Methods	3.5
CS 11	Computer Programming-C++I	4
CS 21	Java: Computer Science 1	4
STAT 1/1H	Elementary Statistics/Honors	4

Total Units in the Major 23.5-25.5

ASSOCIATE IN SCIENCE DEGREE (A.S.), MATHEMATICS (Plan Code: 2530)

This field of concentration is designed to recognize competency in mathematics at a postsecondary level. This Associate Degree may facilitate transfer for a four-year degree.

Program Learning Outcomes:

- Serve students to meet graduation/GE requirements.
- Serve students for the fulfillment of their own personal goals.
- Service students to meet career/transfer requirements.

REQUIRED COURSES		UNITS
ENGL 1	Reading and Composition	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. & Eng.-Mechanics	5.5
Subtotal Units 33		

IN ADDITION, complete TWO (2) of the following courses:

BIO 1A	Biology for Science Majors	5
BIO 1B	Biology for Science Majors	5
CHEM 1A	General Chemistry	5.5
CHEM 1B	General Chemistry	5.5
ECON 1	Macro Economic Analysis	3
ECON 2	Micro Economic Analysis	3
GEOL 2	General Geology, Physical	3
GEOL 3	Historical Geology4	.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 in the Major 39-44

**MEDICAL ASSISTING PROGRAM:
ADMINISTRATIVE/CLINICAL**

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.

Contact Information:

(562) 938-4166; <http://www.lbcc.edu/AlliedHealth/ma>
 Department Head: Jim Steele (562) 938-4605
 Office: C100 (LAC)
 Dean: Paul Creason
 Full-Time Faculty: Patty Bucho, Richard Dicker

**ASSOCIATE IN SCIENCE, MEDICAL ASSISTING PROGRAM:
ADMINISTRATIVE/CLINICAL (A.S.), (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 Medical Assisting Program is approved by the Long Beach Medical Association. The program is designed to be completed in one academic year and includes either the administrative or clinical assisting courses or a combination of both.

Program Learning Outcomes:

- 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.

COMBINED ADMINISTRATIVE/CLINICAL PROGRAM

First Semester

REQUIRED COURSES		UNITS
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 Option Course(s)		4

Students choose either the accounting option or the database option. When an option is chosen, the student must complete 4 units from that option each semester.

ADMINISTRATIVE OPTIONS

OPTION 1 (Accounting): Required Courses		UNITS
ACCTG 200A	Introduction to Accounting	3
COSA 1	Computer Information Competency	1
COSA 10	Microsoft Word for Windows	4

OPTION 2 (Database): Required Courses		UNITS
COSA 15	Microsoft Excel for Windows	4
COSA 25	Microsoft Access for Windows	4

Subtotal Units 17-18

Second Semester

REQUIRED COURSES		UNITS
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
Complete Administrative Option Course(s)		4

Students finish any remaining units from the option chosen in the previous semester.

**Subtotal Units 16
Total Units in the Major 33-34**

**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.

REQUIRED COURSES - Complete the 33 units of required courses listed in the Associate Degree major requirement.

Total Units 33

**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.

First Semester

REQUIRED COURSES		UNITS
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 Course(s)		4

Students choose either the accounting option or the database option. When an option is chosen, the student must complete 4 units from that option each semester.

ADMINISTRATIVE OPTIONS

OPTION 1 (Accounting): Required Courses		UNITS
ACCTG 200A	Introduction to Accounting	3
COSA 1	Computer Information Competency	1
COSA 10	Microsoft Word for Windows	4

OPTION 2 (Database): Required Courses		
COSA 15	Microsoft Excel for Windows	4
COSA 25	Microsoft Access for Windows	4
		Subtotal Units 14-15

Second Semester		
REQUIRED COURSES		UNITS
AH 276	Health Care Law	1
MA 284A	Medical Assisting Clinical Practicum	2
MA 288	Medical Assisting Practicum Seminar	1
MA 290	Basic Medical Insurance Billing	3
Complete Administrative Option Course(s)		4

Students finish any remaining units from the option chosen in the previous semester.

Subtotal Units 11
Total Units 26-27

**CERTIFICATE OF ACHIEVEMENT,
MEDICAL ASSISTING: CLINICAL OPTIONAL**
(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.

First Semester		
REQUIRED COURSES		UNITS
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
COSA 1	Computer Information Competency	1
		Subtotal Units 14-15

Second Semester		
REQUIRED COURSES		UNITS
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 ACHIEVEMENT,
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.

REQUIRED COURSES		UNITS
EMT 251	Emergency Medical Technician	3
EMT 251L	Emergency Medical Technician Lab	1.5
		Total Units 4.5

**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.

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 accredited by the California Department of Public Health.

REQUIRED COURSES		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.

Contact Information:
(562) 938-3051; <http://sheetmetal.lbcc.edu>
Department Head: Scott Fraser (562) 938-4505
Office: B105A (LAC)
Dean: Mollie Smith
Full-Time Faculty: Julie Schneider, Tim Shoemaker, Damon Skinner

Associate in Science Degree (A.S.), 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 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 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 in the Major		22

**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.

REQUIRED COURSES	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
FORK 801	Forklift Safety & Operation	1

RECOMMENDED but not required:

DRAFT 201	Introduction to Drafting	4
FORK 801	Forklift Safety & Operations	1
MTFAB 220D	CNC Metal Fabrication Systems	4
MTFAB 223	Sheet Metal Duct Systems and Fabrication	3
MTFAB 420	Metal Fabrication and Layout	2
MTFAB 421	Metal Fabrication and Layout	1
WELD 400	Band Welding	2
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.

REQUIRED COURSES	UNITS	
MTFAB 50	Introduction to Metalworking	4
ELECT 202	Electrical Mathematics	3
ELECT 253	OSHA Standards for Construction Safety	2
MTFAB 220C	Power Metalworking Mach.Operations	4
MTFAB 260	Blueprint Reading for Metal Fabrication	3
MTFAB 421	Metal Fabrication and Layout	1
WELD 50	Introduction to Welding	4
FORK 801	Forklift Safety & Operation	1

Select ONE (1) of the following areas of emphasis:

Advanced Metal Fabrication and Layout Skills - Complete a minimum of 15 units

MTFAB 220B	Advanced Metal Layout/Fabrication	4
MTFAB 220D	CNC Metal Fabrication Systems	4
MTFAB 270	Metallurgy	3
DRAFT 201	Introduction to Drafting	4

**Advanced Metal Fabrication and Arc Welding Skills -
Complete a minimum of 13 units**

WELD 212	Intro to Shielded Metal Arc Welding	4
WELD 413	SMAW Flat/Horz Groove Welds with Backing	2
OR		
WELD 414	SMAW Vert & OHV/HD Grv Welds w/Backing	2
OR		
WELD 415	SMAW Flat/Horz Open Root Groove Welds	2
OR		
WELD 416	SMAW Vert & O/H Open Root Groove Welds	2
WELD 221	Arc Welding Structural Certification	3
OR		
MTFAB 270	Metallurgy	3

**Advanced Metal Fabrication and Inert Gas Welding Skills -
Complete a minimum of 13 units**

WELD 214	Intro to Gas Tungsten Arc Welding	4
WELD 213	Intro to Semi-Automatic Welding	4
OR		
WELD 480	Welding (Inert Gas)	2
OR		
WELD 482	Gas Tungsten Arc Welding Basic Joints	2
OR		
WELD 483	Gas Metal Arc/Flux Core Arc Welding	2
OR		
WELD 221	Arc Welding Structural Certification	3
OR		
MTFAB 270	Metallurgy	3

**RECOMMENDED but not required for the ADVANCED
SKILLS Certificate:**

FORK 801	Forklift Safety & Operation	1
Total Units		35-37

**CERTIFICATE OF ACCOMPLISHMENT,
ROBOTIC WELDING AUTOMATION**

(Plan Code: 4922)

The Metal Fabrication Technology Certificate of Accomplishment 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.

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 260	Blueprint Reading for Metal Fabrication	3
MTFAB 270	Metallurgy	3
Total Units		15

MUSIC

The Music program at Long Beach City College 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, 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.

Contact Information: (562) 938-4309; <http://pa.lbcc.edu>
 Department Head: Cathy Crane (562) 938-4279
 Office: H208 (LAC)
 Dean: Dina Humble
 Full-Time Faculty: Skye Angulo, Brian Hamilton, Dr. Peter Knapp, Dr. Jacqueline Petitto, Patrick Sheng

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.

Program Learning Outcomes:

- Develop audition and ensemble repertoire and performance techniques at a level appropriate for transfer to a CSU.
- 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
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
MUSIC 16 Musicianship IV	1
MUSIC 92AD Applied Vocal & Instrumental Music	.5
Subtotal Units 18	

IN ADDITION, complete SIX (6) units in ONE of the following performance groups:

MUSIC 11AD Long Beach City College Viking Chorale	1.5
OR	
MUSIC 13AD College Symphony Orchestra	1.5
OR	
MUSIC 38AD Wind Ensemble	1.5
MUSIC 23AD Jazz Choir	1.5
OR	
MUSIC 24AD Vocal Jazz Ensemble	1.5
OR	
MUSIC 54AD Jazz Big Band	1.5
Total Units in the Major 24	

ASSOCIATE IN ARTS (A.A.), 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 Learning Outcomes:

- Achieve sophomore proficiency ranking in performance repertoire and technique.
- 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 Adv. Applied Vocal & Instrumental Music	.5
MUSIC 92AD Applied Vocal & Instrumental Music	.5
(take 3 times)	
Subtotal Units 18	

REQUIRED Performance Ensemble - FOUR (4) Semesters required:

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
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 of Piano)

MUSIC 51A Beginning Piano 1	3
MUSIC 51B Beginning Piano 2	3
MUSIC 51C Intermediate Piano 1	3
Subtotal Units 9	

REQUIRED Chamber Music Component

MUSIC 25AD Chamber Music Ensemble	1.5
OR	
MUSIC 41AD Madrigal A'Capella Choir	1.5
OR	
MUSIC 57AD Jazz Combos	1.5
OR	
MUSIC 24AD Vocal Jazz Ensembles	1.5
Subtotal Units 1.5	

Total Units in the Major 34.5

NURSING: LVN to RN CAREER LADDER PROGRAM

The faculty members of the Associate Degree Nursing Program uphold the mission statement of Long Beach City College, and a commitment to excellence in supporting the community and lifelong learning of our students.

Contact Information: (562) 938-4166; www.lbcc.edu/Nursing

Department Head: Sigrid Sexton (562) 938-4799

Office: C109 (LAC)

Dean: Paul Creason

Full-Time Faculty: Joanne Armenia, Colleen Peralta, Maricela Arnaud, Jeanne Ruehl, Debra Beitler, Ronda Wood, Julie Bean, Jamie Lopez, Frances Outhwaite, Tamba Fry, John Hawry

Accreditation

Long Beach City College is fully accredited by the 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. The Career Ladder Program (Licensed Vocational Nurse to Registered Nurse Program) is designed to be completed in two and a half semesters.

Restrictions on Licensure

Persons with substance abuse problems or with conviction of crimes substantially related to the practice of nursing may not be granted a license by the California Board of Registered Nursing. Fingerprints are part of the application for licensure. For further information, see BRN Policy on Denial of Licensure.

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 show proof of meeting this requirement.
3. A strong command of the English language, both written and verbal is essential for successful completion of the program.
4. All applicants must show proof of a Social Security Number as a Social Security Number is required by some clinical agencies and by the California Board of Registered Nurses in order to take the NCLEX-RN exam.
5. All applicants must have an LBCC student ID number.
6. All applicants must show proof of high school graduation or equivalency in the form of a diploma, transcripts or GED.
7. All applicants must have a valid VN license and submit copy of VN license.

Sequential Procedure for Application to the Program:

1. Applicants are required to attend a mandatory 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. All applicants must see a counselor to develop an educational plan and for evaluation of previous courses and proficiencies.

3. Complete the Reading Proficiency requirement for graduation through the LBCC assessment testing or completion of READ 82 or 83 with a grade of "C" or higher. Proper documentation must be submitted with application.
4. Complete the Mathematics Proficiency requirement for graduation through the LBCC assessment testing or completion of MATH 120, 130 or 130A with a grade of "C" or higher. Proper documentation must be submitted with application.
5. Complete the information portion of the Information Proficiency requirement with a grade of "C" or higher. Proper documentation must be submitted with application.
6. Complete ENGL 1, SOCIO 1 and PSYCH 1 with a grade of "C" or higher.
7. Applicants must have a minimal overall GPA of 2.5 or higher.
8. 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.
9. Official transcripts from all colleges attended must be submitted with the application.
10. Unofficial transcripts from LBCC must be submitted with the application.
11. Complete and sign the application found on the nursing website: <http://nursing.lbcc.edu>.
12. Meet with a counselor to have your application signed.
13. Submit self-addressed stamped envelope with your application and all required documents. Incomplete applications will NOT be considered.
14. 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, LVN TO RN CAREER LADDER DEGREE (A.S.), (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.

Program Learning Outcomes:

- Synthesize the theories and principles that encompass the nursing process and pathological conditions.
- Manage all aspects of the nursing process to achieve positive patient outcomes.

PREREQUISITES COURSE FOR THE PROGRAM

1. Complete the following courses with a "C" or better.

		UNITS
ANAT 1	Human Anatomy	4
PHYSI 1	Human Physiology	5
BIO 2	General Microbiology	5
PSYCH 1	Introduction to Psychology	3
ENGL 1	Reading and Composition	4
		Subtotal Units 21

RECOMMENDED but not required:

ADN 225	Nursing Applications of Pharmacology	3
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2. Pass Nursing Department Examination with a score of 75% or better immediately after completion of ADN 20A. This multiple choice test covers theoretical aspects of first level nursing practice and is given on an individual basis. The test may be taken twice. Before a third attempt, a student must wait for a period of six months. If test is not passed on the second attempt, see program director.

Subtotal (advanced placement) Units 16

3. Hold a current license to practice as a Vocational Nurse in California.
4. Entrance is not guaranteed. Entrance is determined by space availability.

First Semester

REQUIRED COURSES	UNITS
ADN 20A Transition to Second Level Nursing (Student must be prepared to enter the program within one year after successful completion of ADN 20A)	1
COMM 10, 20, or 30 General Ed. Requirement	3
SOCIO 1 Introduction to Sociology	3
Subtotal Units 6	

Second Semester

	UNITS
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 in the Major 31.5

Total Program Units (including prerequisites) 68.5

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

1. Complete the following courses with a "C" or better.

	UNITS
PHYSI 1 Human Physiology	5
BIO 2 General Microbiology	5

Total Prerequisite Units 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.
3. Provisionally accepted students must successfully pass the TEAS exam with 62 or higher in order to continue in the program.

First Semester

REQUIRED COURSES	UNITS
ADN 20A Transition to Second Level Nursing	1
Subtotal Units 1	

Second Semester

REQUIRED COURSES	UNITS
ADN 35A Women's Health and Advanced Obstetrics	1.5
ADN 35AL Women's Health and Advanced Obstetrics 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

REQUIRED COURSES	UNITS
ADN 45A Advanced Nursing I-Adult Critical Care	2.5
ADN 45AL Adv. Nursing I - Adult Critical Care Lab	3
ADN 22B Adv Nursing II - Role Transition	2.5
ADN 22BL Advanced Nursing II Role Transition Lab	3
ADN 31B Trends in Nursing B	1
Subtotal Units 12	
(10 Prerequisites + 20 Required Certificate Courses) Total Units 32.5	

NURSING: ASSOCIATE DEGREE (RN) PROGRAM

The nursing program provides a high quality nursing education to qualified and diverse students for the development of entry-level nurses who are prepared to meet the evolving healthcare needs of the community. The faculty strive to create a student-centered environment of collaboration, lifelong learning, and mentorship to promote academic excellence and compassionate nursing care.

Contact Information: (562) 938-4166; <http://nursing.lbcc.edu>

Department Head: Sigrid Sexton (562) 938-4799

Office: C109 (LAC)

Dean: Paul Creason

Full-Time Faculty: Joanne Armenia, Maricela Arnaud, Julie Bean, Debra Beitler, Tandra Fry, John Nawry, Jamie Lopez, Colleen Peralta, Jeanne Ruehl, Ronda Wood, Frances Outhwaite

Accreditation

Long Beach City College is fully accredited by the 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, request BRN Policy Denial of Licensure. For additional information call (562) 938-4166.

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 show proof of meeting this requirement.
3. A strong command of the English language, both written and verbal is essential for successful completion of the program.
4. All applicants must show proof of a Social Security Number as a Social Security Number is required by some clinical agencies and by the California Board of Registered Nurses in order to take the NCLEX-RN exam.
5. All applicants must have an LBCC student ID number.
6. All applicants must show proof of high school graduation or equivalency in the form of a diploma, transcripts or GED.
7. This program is not for the Licensed Vocational Nurses (LVN's). LVN's should apply to the LVN to RN Career Ladder Program.

Sequential Procedure for Application to the Program:

1. Applicants are required to attend a mandatory 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. All applicants must see a counselor to develop an educational plan and for evaluation of previous courses and proficiencies.
3. Complete the Reading Proficiency requirement for graduation through the LBCC assessment testing or completion of READ 82 or 83 with a grade of "C" or higher. Proper documentation must be submitted with application.
4. Complete the Mathematics Proficiency requirement for graduation through the LBCC assessment testing or completion of MATH 120, 130 or 130A with a grade of "C" or higher. Proper documentation must be submitted with application.
5. Complete the information portion of the Information Proficiency requirement with a grade of "C" or higher. Proper documentation must be submitted with application.
6. Complete ENGL 1 with a grade of "C" or higher.
7. Applicants must have a minimal overall GPA of 2.5 or higher.
8. 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.
9. Official transcripts from all colleges attended must be submitted with the application.
10. Unofficial transcripts from LBCC must be submitted with the application.

11. Complete and sign the application found on the nursing website: <http://nursing.lbcc.edu>.
12. Meet with a counselor to have your application signed.
13. Submit self-addressed stamped envelope with your application and all required documents.
14. Incomplete applications will NOT be considered.
15. All provisional 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, REGISTERED NURSING DEGREE (A.S.),

(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.

Program Learning Outcomes:

- Synthesize the theories and principles that encompass the nursing process and pathological conditions.
- Manage all aspects of the nursing process to achieve positive patient outcomes.

PREREQUISITES		UNITS
(Required Prior to Enrollment in Program)		
ANAT 1	Human Anatomy	4
PHYSI 1	Human Physiology	5
BIO 2	General Microbiology	5
ENGL 1	Reading and Composition	4
		Subtotal Units 18

First Semester REQUIRED COURSES		UNITS
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	Introduction to Psychology	3
SOCIO 1	Introduction to Sociology	3
		Subtotal Units 14

Second Semester REQUIRED COURSES		UNITS
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 REQUIRED COURSES		UNITS
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 Semester

REQUIRED COURSES		UNITS
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

RECOMMENDED but not required courses:

ADN 201-204	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
AH 225	Basic Arrhythmia Recognition	.5

Total Units in the Major 67.5

NURSING: VOCATIONAL/PRACTICAL

Prepare students for entry-level vocational nursing licensure and competent practice.

Contact Information: (562) 938-4166; <http://nursing.lbcc.edu>
 Department Head: Julie McGill (562) 938-4870
 Office: C117 (LAC)
 Dean: Dr. Paul Creason
 Full-Time Faculty: Rhonda Alger, Cynthia Bartlau, Marilyn Coe-Gysel, Susan Radloff

Program Admissions Requirements

1. CNA Certificate: Starting Fall 2014, the requirement of a current State of California Nurse Assistant Certificate (C.N.A) becomes mandatory for all first time applicants. Completion of VN 215 plus state competency examination and certificate fulfills this requirement.
2. Reading Proficiency: Meet the current college graduation reading proficiency requirements. In order to do so, please contact the Liberal Arts campus counseling department at (562) 938-4049, or the Pacific Coast campus counseling department at (562) 938-3920 to schedule the LBCC Assessment test(s) and for a group meeting with a counselor.
3. *Starting Fall 2014 Application Period—Completion of English 105 or higher required.
4. Math Proficiency: Qualify for Math 110 through the LBCC Assessment tests; or complete Math 815 or higher with a grade of “C” or better. If math classes were taken at another college, meet with a counselor to initiate an evaluation of the course for equivalency.
5. Writing Proficiency: Met for graduation: Qualification for

- English 1 or completion of English 105. Starting Fall 2014
6. High School: Proof of high school graduation (12 years) is required. Official transcripts from a USA 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.
7. Grade Point Average: If previous college work has been completed, a GPA of 2.0 must be achieved.
8. Information Meeting: Applicants should attend an information meeting prior to submitting an application.
9. Meetings are held on the 2nd Tuesday of the month in Bldg. C at 4:30 p.m. Please view VN webpage to verify date and time.
10. Prerequisite Courses: All prerequisite courses must be completed prior to entering the program. However, students may apply for the program DURING THE 1ST WEEK OF Fall & Spring semester. Please call the Nursing office for exact dates. Prerequisites must have been completed within the previous five years. Background Check: Vocational nursing
11. 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.
12. 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 1st 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 2 ½ semester (or 45 weeks) program... The program admits students twice a year in March and October only.
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), ADN 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.),
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 Long Beach City College 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 Learning Outcomes:

- 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:

	UNITS
BIO 60 Human Biology 1	4
VN 220 Transition to Vocational Nursing	4
VN 225 or ADN 225 Pharmacology	3
VN 215 Fundamentals of Nursing	0-6

OR
Certified Nursing Assistant (C.N.A) certificate issued by the State of California (Contact Nursing Department)

Subtotal Units 11-17

Complete the following required courses with a minimum grade of "C" or better in each course:

REQUIRED COURSES	UNITS
VN 240 Mental Health Nursing	3
VN 230 Common Health Deviations 1	3
VN 230L Common Health Deviations 1 Lab	3.5
VN 235 Common Health Deviations 2	3
VN 235L Common Health Deviations 2 Lab	3.5
VN 245 Maternal/Infant Nursing	2
VN 245L Maternal/Infant Nursing Lab	1
VN 250 Nursing Care of Children	2
VN 250P Nursing Care of Children Practicum	1
VN 255 Common Health Deviations 3	3
VN 255L Common Health Deviations 3 Lab	3.5
VN 260 Roles and Responsibilities	1.5
VN 265 Common Health Deviations 4	3
VN 265L Common Health Deviations 4 Lab	3

For both the Associate in Science and the Certificate of Achievement, the following courses are recommended, BUT ARE NOT REQUIRED to earn either.

ADN 225 Pharmacology	3
ADN 810 Preparation for Nursing	.5
AH 60 Medical Terminology	3
AH 222 Intravenous Therapy & Blood Withdrawal	1
AH 225 Basic Arrhythmia Recognition	.5

Total Units in the Major 47-53

**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 Long Beach City College Associate Degree Nursing Program for the Career Ladder LVN-RN Program.

REQUIRED COURSE Complete the 47-53 units of required courses as listed in the Associate Degree major requirements.

NURSING ASSISTANT CERTIFICATE (Plan Code: 4630)
This certificate prepares students in basic-entry level fundamental nursing skill sets. Completion of course VN215 prepares students to test for the state competency examination for a Certified Nursing Assistant. (C.N.A.)

REQUIRED COURSES	UNITS
VN 215 Fundamentals of Nursing	6
Total Unit 6	

HOME HEALTH AIDE CERTIFICATE (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 VN215 course.

REQUIRED COURSES	UNITS
VN 215 Fundamentals of Nursing	6
Total Units 6	

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.

Contact Information:

(562) 938-4380; <http://www.lbcc.edu/Philosophy/>
 Department Head: Carlos Ramos (562) 938-4418
 Office: T2337 (LAC)
 Dean: Dina Humble
 Full-Time Faculty: Rachel Hollenberg, Matthew Lawrence, Robert Vitt, Debra Whittaker

ASSOCIATE IN ARTS IN PHILOSOPHY FOR TRANSFER (A.A.-T.)

(Plan Code: 5012B/C)

Associate in Arts in Philosophy for Transfer 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.

Program Learning Outcomes:

- Describe philosophical problems and apply critical thinking and logic skills to analyze them.

REQUIRED COURSES, select TWO (2) courses below:

PHIL 22	Symbolic Logic	3
PHIL 6	Introduction to Philosophy	3
PHIL 6H	Honors Introduction to Philosophy	3
PHIL 7	Introduction to Ethics	3
PHIL 7H	Honors Introduction to Ethics	3

Subtotal Units 6

IN ADDITION, complete ONE (1) course from LIST A:

LIST A

Any REQUIRED CORE not already used.

PHIL 9	Introduction to Existentialism	3
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OR

PHIL 10	Introduction to Feminist Philosophy	3
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Subtotal Units 3

IN ADDITION, complete TWO (2) courses from LIST B:

LIST B

Any LIST A course not already used.

HIST 1A	History: Western (European) Civilization	3
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HIST 1B	History: Western (European) Civilization	3
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PHIL 14	Philosophy of Religion	3
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Subtotal Units 6

IN ADDITION, complete ONE (1) course from LIST C:

LIST C

Any LIST A or B course not already used.

PHIL 11	Critical Thinking	3
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PHIL 12	Introduction to Logic	3
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PHIL 8	Introduction to Non-Western Philosophy	3
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Subtotal Units 3

Total Units in the Major 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.

Contact Information:

(562) 938-4168; <http://www.lbcc.edu/physicalscience>

Department Head: Dr. Mary Perrot (562) 938-4441

Office: D344 (LAC)

Dean: Dr. Paul Creason

Full-Time Faculty: Dr. Douglas Britton, Ryan Carroll, Dr.

Chris Carter, Dr. Jaime de Anda, Dr. Tilahun Eneyew, Otto

Figueroa, Amy Fredericks, Joanna Haan, Dr. Nigel Hancock,

Kim Hatch, Dr. Marlon Jones, Benjamin Jose, Dr. Mary Perrot,

Dr. Ray Sumner, Dr. Mario Vargas

ASSOCIATE IN ARTS (A.A.), 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.), 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.

Program Learning Outcomes:

- 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

UNITS

Complete THIRTEEN-FIFTEEN (13-15) units from the following courses:

ASTR: All courses

CHEM: Either CHEM 2, 3 or 1A (but limited to only one of these courses), any among CHEM 1B, CHEM 12A or CHEM 12B

ENVR 1

PGEOG: all courses

GEOL: GEOL 1 or 1H or 2 & 2L, any other Geology course taught at LBCC

PHYS: PHYS 2A or 3A but not both, PHYS 2B or 3B but not both, PHYS 3C

Subtotal Units 13-15

IN ADDITION, complete a Computer class:

Computer Class- Any class which satisfied the computer portion of the Information Competency requirement for graduation. See the current General Education Course Pattern Guide for a complete listing of acceptable courses.

Subtotal Units 1-4

IN ADDITION, complete FIVE-SIX (5-6) units from any Mathematics course which has a prerequisite of Intermediate Algebra (MATH 130) or higher

**Subtotal Units 5-6
Total Units in the Major 19-25**

NOTE: Courses are offered each semester excluding the following:

PHYS 2B is offered once each year, usually in the second semester.
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.

Contact Information:

(562) 938-4380; <http://www.lbcc.edu/HistPolsci/>

Department Head: Lisa Orr (562) 938-4343

Office: T2340 (LAC)

Dean: Dina Humble

Full-Time Faculty: Matthew Atkinson, Donald Kent

Douglas, Ph.D., Eugene Goss, Frederick Hemker, Charlotte

Joseph, Laura A. Pellegrini, Ph.D., Paul Savoie.

ASSOCIATE OF ARTS IN POLITICAL SCIENCE

FOR TRANSFER DEGREE (A.A.-T), (Plan Code: 5005B/C)

The Associate of Arts in Political Science for Transfer degree at Long Beach City College will provide students with the necessary lower division preparation at the community college level for transferring to a baccalaureate degree program in Political Science in the CSU system. The 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, political science majors will graduate from the program prepared for general education, good citizenship and participation in political life.

Program Learning Outcomes:

- 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 COURSE:	UNITS
POLSC 1/1H Introduction to Government/Honors	3
Subtotal Units 3	

**IN ADDITION, complete THREE (3) courses from LIST A:
LIST A**

POLSC 11	Introduction to Political Theory	3
POLSC 2	Comparative Government	3
POLSC 4	World Politics	3
POLSC 10	Introduction to Political Science	3
STAT 1	Elementary Statistics	4

Subtotal Units 9-10

IN ADDITION, complete TWO (2) courses from LIST B:

LIST B

Any course from List A not already used.		3-4
POLSC 3	Issues of American Government	3
POLSC 9	The Constitution, Law and Society	3
HUMAN 7	American Pluralism & Identity	3
OR		
SOCSC 7	American Pluralism & Identity	3
PUBAD 1	Introduction to Public Administration	3

Subtotal Units 6-7

Total Units in the Major 18-19

CERTIFICATE OF ACCOMPLISHMENT,

POLITICAL SCIENCE - GENERAL (Plan Code: 4820)

This certificate will provide recipients an advantage, above those without any college, in applying for any type of government job, especially positions that do not require a college degree. In addition, many government entities, if not most, require applicants for employment to have completed Political Science I – Introduction to American Government as a requirement of employment. This certificate will make applicants more attractive to government employers, especially for low-skill or no-skill positions.

REQUIRED COURSES

	UNITS
POLSC 1/1H Introduction to Government/Honors	3
POLSC 3 Issues of American Government	3
POLSC 9 The Constitution, Law and Society	3
POLSC 10 Introduction to Political Science	3
POLSC 11 Introduction to Political Theory	3

Total Units 15

CERTIFICATE OF ACCOMPLISHMENT,

POLITICAL SCIENCE - GLOBAL (Plan Code: 4821)

This certificate will provide recipients an advantage, above those without any college, in applying for any type of government job. In addition, many government entities, if not most, require applicants for employment to have completed Political Science I – Introduction to American Government as a requirement of employment. This certificate will make applicants more attractive to government employers, specifically for jobs concerning the global economy and not requiring a degree.

REQUIRED COURSES

	UNITS
POLSC 1/1H Introduction to Government/Honors	3
POLSC 2 Comparative Government	3
POLSC 3 Issues of American Government	3
POLSC 4 World Politics	3
POLSC 9 The Constitution, Law and Society	3

Total Units 15

PROGRAMS OF STUDY

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 at Long Beach City College introduces students to many of these subspecialties in preparation for upper division coursework at a four-year college or university.

Contact Information:

(562) 938-4322; <http://www.lbcc.edu/Psychology/index.cfm>
Department Head: Carlos Ramos (562) 938-4418
Office: T2337 (LAC)
Dean: Dina Humble
Full-Time Faculty: Patricia Alexander, Kyaran Barr, Katie Heaton-Smith, Nicholas Herrera, Nancy Melucci, Boris Vukov

ASSOCIATE IN ARTS IN PSYCHOLOGY

FOR TRANSFER DEGREE (A.A.-T.), (Plan Code: 5000 B/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.

Program Learning Outcomes:

- 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 COURSES

	UNITS
STAT 1/1H Elementary Statistics/Honors	4
PSYCH 1/1H Introduction to Psychology/ Honors	3
PSYCH 2 Research Methods for Psychology	4
Subtotal Units 11	

IN ADDITION, complete the LIST A course below:

LIST A	
PSYCH 6 Physiological Foundations of Psychology	3
Subtotal LIST A Units 3	

IN ADDITION, complete ONE (1) course from LIST B:

LIST B	
PSYCH 11 Social Psychology	3
PSYCH 14 Abnormal Psychology	3
PSYCH 33 Psychology of Personality	3
Subtotal LIST B Units 3	

IN ADDITION, complete ONE (1) course from LIST C:

Any course not selected above.		3
PSYCH 4 Personal and Social Development		3
PSYCH 10 Human Sexuality		3
OR		
HLED 10 Human Sexuality		3
Subtotal LIST C Units 3		
Total Units in the Major 20		

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.

Contact Information: 562-938-4892; LBCC.edu/RTV
Department Head: Morgan Barnard (562) 938-4845

Office: K117 (LAC)
Dean: Dina Humble
Full-Time Faculty: Robert Hersh

ASSOCIATE IN ARTS DEGREE (A.A.), RADIO/TELEVISION: BROADCAST NEWS (Plan Code: 1251)

Students prepare for writing, editing and producing radio or television news and news feature programs. The Associate Degree will prepare students for career advancement in this field. Appropriate course selection will also facilitate transfer to a four-year college or university in communications, broadcast or journalism.

Program Learning Outcomes:

- Integrate and arrange script, graphics, B-roll, music, and sound bites into an industry-ready newscast segment.

- Critically assess the responsibilities of various creative and technical staff positions and evaluate the importance each to the production.
- Analyze the elements of pre-production, production, and post-production to create an industry ready news segment.

REQUIRED CORE COURSES		UNITS
R_TV 1	Introduction to Broadcasting	3
R_TV 3	Using MacIntosh in Entertainment Ind.	2.5
R_TV 8	Introduction to Media Production	2.5
R_TV 13AD	Television Production	2.5
R_TV 70	Fieldwork in Radio/Television	3
Subtotal Units		13.5

REQUIRED COURSES FOR SPECIALITY		
R_TV 14AD	Electronic Field Production	2.5
R_TV 25AD	Radio Activity	2.5
OR		
R_TV 35AD	Television Activity	2.5
R_TV 30AD	Broadcast Newswriting	2.5
R_TV 36AD	Broadcast News Production	2.5
Subtotal Units		12.5

IN ADDITION, complete SEVEN & ONE HALF (7.5) units from the following:

R_TV 2	Intro to Careers in Radio & Television	2
R_TV 4	Writing and Production Planning	3
R_TV 12	Television Lighting	2.5
R_TV 15AC	Advanced Television Production	2.5
R_TV 21	Radio Production	3
R_TV 34AD	Music Video Production	2.5
R_TV 37	Radio/Television Management and Sales	3
R_TV 216AC	Non-Linear Video & Film Editing	2.5
Other courses for area of specialization may be approved		
Subtotal Units		7.5
Total Units in the Major		
33.5		

**CERTIFICATE OF ACHIEVEMENT,
RADIO/TELEVISION: BROADCAST NEWS**
(Plan Code: 3251)

This Certificate of Achievement will prepare students for an entry-level position or skills for advancement in the fast growing field of Broadcast News and related information distribution elements of various industries.

Complete the 33.5 units of required courses as listed in the Associate Degree 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.

Contact Information: (562) 938-4892; LBCC.edu/RTV
Department Head: Morgan Barnard (562) 938-4845,

Office: K117 (LAC)
Dean: Dina Humble
Full-Time Faculty: Robert Hersh

**ASSOCIATE IN ARTS (A.A.) DEGREE,
RADIO/TELEVISION PERFORMANCE** (Plan Code: 1252)

Students prepare for performing in radio and television programs 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 a broadcast, film or performance program.

Program 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 importance of each to the production.

REQUIRED CORE COURSES		UNITS
R_TV 1	Introduction to Broadcasting	3
R_TV 3	Using MacIntosh in Entertainment Ind.	2.5
R_TV 8	Introduction to Media Production	2.5
R_TV 13AD	Television Production	2.5
R_TV 70	Fieldwork in Radio/Television	3
Subtotal Units		13.5

REQUIRED COURSES FOR SPECIALITY		
R_TV 25AD	Radio Activity	2.5
OR		
R_TV 35AD	Television Activity	2.5
R_TV 34AD	Music Video Production	2.5
R_TV 36AD	Broadcast News Production	2.5
R_TV 40AD	On-Camera Performance	2.5
Subtotal Units		10

IN ADDITION, complete SEVEN & ONE HALF (7.5) units from the following:

R_TV 2	Intro to Careers in Radio & Television	2
R_TV 12	Television Lighting	2.5
R_TV 14AD	Electronic Field Production	2.5
R_TV 15AC	Advanced Television Production2	.5
R_TV 21	Radio Production	3
R_TV 30AD	Broadcast Newswriting	1.5

R_TV 34AD	Music Video Production	2.5
R_TV 37	Radio/Television Management and Sales	3
Other courses for area of specialization may be approved		
		Subtotal Units 7.5
Total Units in the Major 31		

Certificate of Achievement, Radio/Television: Performance
(Plan Code: 3252)

This Certificate of Achievement will prepare students for an entry-level position and/or skills for advancement in a variety of performance opportunities including live, broadcast and recorded venues.

REQUIRED COURSES—Complete the 31 units of required courses as listed in the Associate Degree 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.

Contact Information: v(562) 938-4892; LBCC.edu/RTV
Department Head: Morgan Barnard (562) 938-4845,

Office: K117 (LAC)
Dean: Dina Humble
Full-Time Faculty: Robert Hersh

**ASSOCIATE IN ARTS DEGREE,
RADIO/TELEVISION PRODUCER**
(Plan Code: 1253)

Students prepare for producing radio or television programs 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 broadcast, film, computer animation or multimedia production.

Program Learning Outcomes:

- Demonstrate collaboration skills related to personnel and time lines 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		UNITS
R_TV 1	Introduction to Broadcasting	3
R_TV 3	Using MacIntosh in Entertainment Indus	2.5
R_TV 8	Introduction to Media Production	2.5
R_TV 13AD	Television Production	2.5
R_TV 70	Fieldwork in Radio/Television	3
Subtotal Units 13.5		

REQUIRED COURSES FOR SPECIALITY

R_TV 4	Writing and Production Planning	3
R_TV 14AD	Electronic Field Production	2.5
R_TV 25AD	Radio Activity	2.5
OR		
R_TV 35AD	Television Activity	2.5
R_TV 34AD	Music Video Production	2.5
R_TV 36AD	Broadcast News Production	2.5
Subtotal Units 13		

IN ADDITION, complete SEVEN & ONE HALF (7.5)

Units from the following:

R_TV 2	Intro to Careers in Radio & Television	2
R_TV 12	Television Lighting	2.5
R_TV 13AD	Television Production	2.5
R_TV 15AC	Advanced Television Production	2.5
R_TV 21	Radio Production	3
R_TV 30AD	Broadcast Newswriting	2.5
R_TV 34AD	Music Video Production	2.5
R_TV 37	Radio/Television Management and Sales	3
R_TV 40AD	On-Camera Performance	2.5
R_TV 216AC	Non-Linear Film & TV Editing	2.5
Subtotal Units 7.5		
Total Units in the Major 34		

**CERTIFICATE OF ACHIEVEMENT,
RADIO/TELEVISION PRODUCER**
(Plan Code: 3253)

Complete the 34 units of required courses as listed in the Associate Degree 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.

REQUIRED COURSES		UNITS
R_TV 1	Introduction to Broadcasting	3
R_TV 3	Using MacIntosh Entertainment Industry	2.5
R_TV 8	Introduction to Media Production	2.5
R_TV 13AD	Television Production	2.5
R_TV 70	Fieldwork in Radio/Television	3
Subtotal Units 13.5		

REQUIRED COURSES FOR SPECIALITY

ART 41	Introduction to Computergraphics	3
MUSIC 94AD	Beginning Recording Techniques	2.5
Subtotal Units 5.5		

IN ADDITION, complete 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 14AD	Electronic Field Production	2.5
R_TV 21	Radio Production	3
R_TV 216AC	Non-Linear TV & Film Editing	2.5
Other courses for area of specialization may be approved by the M/R_TV department chair.		
Subtotal Units 10		

Total Units 29

SOCIAL SCIENCES

The Social Sciences program creates an environment of educational inquisitiveness and critical assessment. To foster a socially and culturally aware, well-rounded student by improving program quality and improved student learning in the area of the Social Sciences.

Contact Information:

(562) 938-4380; <http://www.lbcc.edu/SocialSciences>

Department Head: Lisa Orr (562) 938-4343

Office: M2340

Dean: Dina Humble

Full-Time Faculty: Laurel Breece, SuShuan Chen, Karyn Daniels, Kent Douglas, Gilbert Estrada, Eugene Goss, Frederick Hemker, Nicholas Herrera, Rachel Hollenberg, Janet Hund, Charlotte Joseph, Greg Joseph, Matthew Lawrence, David Lehman, Mary Marki, Nancy Melucci, Adrian Novotny, Elisabeth Orr, Laura Pelligrini, Janine Pliska, Carlos Ramos, Melvin Ross, Paul Savoie, Robert Vitt, Boris Vukov, Steve Wallech, Debbie Whittaker.

ASSOCIATE IN ARTS (A.A.) DEGREE, SOCIAL SCIENCES (Plan Code: 1820)

This field of concentration provides the student with a general education in the principles, concepts and methodologies of various disciplines (Anthropology, Economics, Geography, Philosophy, Psychology and Sociology). In addition, courses in these areas may partially satisfy general education and major requirements for a baccalaureate degree. This Associate Degree will prepare students for career advancement and will also facilitate transfer in a related major.

Program Learning Outcomes:

- Students will apply theories from the disciplines in the Social Science Program to analyze and explain human behavior as individuals and/or in groups.
- Students will be able to distinguish between fact and opinion, identify credible evidence, and analyze arguments.
- Students will apply perspectives and frameworks from the disciplines in the Social Science Program to explain and solve challenges related to accommodating and appreciating human diversity.

REQUIRED COURSES UNITS

Complete NINE (9) units in HISTORY and POLITICAL SCIENCE courses numbered 1-99. Complete at least ONE course from the History department and ONE course from the Political Science department.

Subtotal Units 9

IN ADDITION, complete NINE (9) units in courses numbered 1-99 from the following departments. This must include at least SIX (6) units in ONE of the subject areas:

ANTHR, ECON, GEOG, PHIL, PSYCH, SOCIO

Subtotal Units 9

Total Units in the Major 18

SOCIOLOGY

Sociology coursework at Long Beach City College introduces students to modern social problems, sociology of race and ethnicity, the social experience of Latinos, and issues of marriage and family life.

Contact Information:

(562) 938-4380; <http://www.lbcc.edu/sociology>

Department Head: Carlos Ramos (562) 938-4418

Office: T2337 (LAC)

Dean: Dina Humble

Full-Time Faculty: Karyn Daniels, Melissa Govea, Janet Hund, Carlos Ramos

ASSOCIATE IN ARTS IN SOCIOLOGY FOR TRANSFER DEGREE (A.A.-T.), (Plan Code: 5001B/C)

The Associate in Arts in Sociology for Transfer degree at Long Beach City College 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.

Program Learning Outcomes:

- Apply sociological imagination and sociological theories to contemporary analysis of public issues.
- Identify and evaluate sociological scientific research, including research design, research methods, data analysis and interpretation.

REQUIRED CORE COURSE	UNITS
SOCIO 1/1H Introduction to Sociology/Honors	3
Subtotal Units	4

IN ADDITION, complete TWO (2) courses from LIST A:

LIST A		
SOCIO 2	Modern Social Problems	3
STAT 1/1H	Elementary Statistics	4
PSYCH 2	Research Methods for Psychology	4
Subtotal LIST A Units		7-8

IN ADDITION, complete TWO (2) courses from LIST B:

LIST B		
Any LIST A course not used above		3-4
SOCIO 40	Sociology of the Family	3
SOCIO 11	Race & Ethnic Relations in the U.S.	3
PSYCH 11	Social Psychology	3
Subtotal LIST B Units		6-7

IN ADDITION, complete ONE (1) course from LIST C:

LIST C		
Any LIST or B course not used above		3-4
PSYCH 1	Introduction to Psychology	3
ANTHR 2	Cultural Anthropology	3
GEOG 2	Elements of Cultural Geography	3
Subtotal LIST C Units		3-4
Total Units in the Major		19-22

THEATRE: GENERAL & 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.

Contact Information: (562) 938-4563; <http://tdf.lbcc.edu>
Department Head: Cathy Crane (562) 938-4279
Office: H201
Dean: Dina Humble
Full-Time Faculty: Anthony Carreiro, Gregory Mortensen

ASSOCIATE IN ARTS (A.A.), THEATER: GENERAL

(Plan Code: 1271)

This field of concentration 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.

Program Learning Outcomes:

- 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 50AD Major Production Performance	2.5
TART 51AD Theatre Forum	1
Subtotal Units	13.5

Select a minimum of NINE (9) units from the following:

TART 2 Acting 2- Techniques & Characterization	3.5
TART 40 Stage Craft	3
TART 42 Introduction to Stage Lighting	3
TART 43 Introduction to Stage Costume	3
Subtotal Units	9-9.5

Select a minimum of 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 in the Major	26.5-27

ASSOCIATE OF ARTS DEGREE IN THEATRE ARTS, ACTING ACADEMY (A.A.), (Plan Code: 1272)

Upon successful completion of the following courses, the acting student will have earned an Associate of 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.

FIRST SEMESTER	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 51AD Theatre Forum	1
TART 55 Stage Makeup	3
Subtotal Units	14

SECOND SEMESTER	UNITS
TART 1B Acting 1-Movement	2
TART 1C Acting 1-Voice	2
TART 1D Acting 1-Improvisation	2
TART 2 Acting Technique & Characterization	3.5
TART 39AD Theatre Practicum	1
OR	
TART 49AD Rehearsal and Performance	2.5
TART 51AD Theatre Forum	1
Subtotal Units	11.5-13

THIRD SEMESTER UNITS	UNITS
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 50AD Major Production Performance	2.5
Subtotal Units	12

FOURTH SEMESTER	UNITS
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 50AD Major Production Performance	2.5
TART 205 Auditions for Theatre and Film	3
Subtotal Units	14
Total Units in the Major	51.5-53

CERTIFICATE OF ACCOMPLISHMENT, VOCATIONAL MEDIA – FILM ACTING (Plan Code: 4034)
Upon completion of the following courses the student will have fact based and practical tools to engage the world of “Show Business” for gainful employment.

REQUIRED COURSES	UNITS
TART 1 or ANY COMPARABLE LEVEL Acting 1 course	3.5
TART 201 Show Business Careers – How to Start	1.5
TART 204 Marketing Yourself for Show Business	1.5
TART 205 Audition for Theatre and Film	3.5
OR	
TART 206A Audition and Interview Skills – Beginning	1.5
AND	
TART 206B Audition and Interview Skills - Advanced	1.5
TART 212A Acting in Film - Beginning	1.5
TART 212B Acting in Film - Advanced	1.5
Total Units	13

**CERTIFICATE OF ACCOMPLISHMENT,
VOCATIONAL MEDIA -COMMERCIALS** (Plan Code: 4035)
Upon completion of the following courses the student will have a broad based and factual knowledge of the world of “Show Business” and how to pursue gainful employment.

REQUIRED COURSES		UNITS
TART 1 or ANY COMPARABLE LEVEL	Acting 1 course	3.5
TART 201	Show Business Careers – How to Start	1.5
TART 204	Marketing Yourself for Show Business	1.5
TART 205	Audition for Theatre and Film	3.5
OR		
TART 206A	Audition and Interview Skills – Beginning	1.5
AND		
TART 206B	Audition and Interview Skills - Advanced	1.5
TART 208A	Breaking into Commercials - Beginning	1.5
TART 208B	Breaking into Commercials - Advanced	1.5
		Total Units 13

Certificate of Accomplishment, Vocational Media - Voice-Over
(Plan Code: 4036)
Upon completion of the following courses the students will gain the knowledge at a beginning level for Additional Dialog Recording (A.D.R.), dubbing, and narration.

REQUIRED COURSES		UNITS
TART 1 or ANY COMPARABLE LEVEL	Acting 1 course	3.5
TART 201	Show Business Careers – How to Start	1.5
TART 204	Marketing Yourself for Show Business	1.5
TART 205	Audition for Theatre & Film	3.5
OR		
TART 206A	Audition and Interview Skills – Beginning	1.5
AND		
TART 206B	Audition and Interview Skills - Advanced	1.5
TART 210A	Voice-Over Techniques - Beginning	1.5
TART 210B	Voice-Over Techniques - Advanced	1.5
		Total Units 13

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.

Contact Information: (562) 938-4904; <http://cos.lbcc.edu/>
Department Head: Gene Carbonaro (562) 938-4624
Office: M121 (LAC)
Dean: Mollie Smith
Full-Time Faculty: Dena Laney, Renae Powell,
Anthony Pagan, Tahir Aziz

ASSOCIATE IN SCIENCE (A.S.), 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 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		UNITS
COSA 50	Intro to IT Concepts & Applications	4
COSP 7	Programming Concepts and Methodologies	4
COSP 38	Database Concepts	4
COSW 10	Beginning Website Development	4
COSW 20	Dynamic HTML Web Construction	4
COSW 200	Introduction to JavaScript	4
COSW 220	Web Development with PHP/MySQL	4
COSW 240	Intro to Content Management Systems	3
		Total Units in the Major 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 front-end development and back-end development. Topics include modern website development, responsive design, best practices, database-driven web applications, accessibility and user-centered design.

REQUIRED COURSES - Complete the 31 units of required courses as listed in the Associate Degree major requirements.

CERTIFICATE OF ACCOMPLISHMENT

PHP Web Programmer Certificate (Plan Code: 4129)

Students will learn how to build robust web applications with PHP and MySQL.

REQUIRED COURSES	UNITS
COSP 38 Database Concepts	4
COSW 10 Beginning Website Development	4
COSW 200 Introduction to JavaScript	3
COSW 220 Web Development with PHP/MySQL	4
Total Units	15

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.

REQUIRED COURSES	UNITS
Take one sequence of:	
CS 21 Java: Computer Science 1	4
OR	
CS 11 Computer Programming- C++I	4
COSP 38 Database Concepts	4
COSP 230 Android App Development in Java	3
Total Units	11

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.

REQUIRED COURSES	UNITS
COSW 10 Beginning Website Development	4
COSW 20 Dynamic HTML Web Construction	4
COSW 200 Introduction to JavaScript	4

Choose 4 units from the following courses:

COSP 201 Intro to Mobile App Development	1
COSW 220 Database Programming with PHP/MySQL	3
COSW 230 Ruby on Rails Web Development	3
COSW 240 Intro to Content Management Systems	3
Total Units	16

COURSES



CURRICULUM OFFERINGS

The courses offered in this catalog may not be offered every term or every year. If a course is not offered every term you will see a note at the end of the catalog description to tell you when the course is usually offered. Check the Schedule of Classes for our current term offerings. 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.
100-199	Courses not intended for transfer but meeting 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.

Check with the catalog or a counselor if you have questions about course credit applicability.

Course Prerequisites, Corequisites and Recommended Preparation

Prerequisites, corequisites and recommended preparation advice are listed with some courses in this catalog and the schedule of classes.

A **PREREQUISITE** is a course or assessment that must be completed before enrolling in the course. Satisfactory completion of an assessment requires successful completion of the assessment process. Satisfactory completion of a prerequisite course requires a grade of CR or a "C" or better.

If the student has completed the prerequisite at another college or in high school, the student must bring a copy of the 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 has the knowledge and the ability to succeed in the course, particularly if the student is drawing upon his/her work experience and wishes to take a vocational course.

A **COREQUISITE** is a course in which the student must be enrolled at the same time as the companion course. This is often the case in science classes which include a lab. Sometimes, the student may be allowed to complete the corequisite course in a prior semester.

RECOMMENDED PREPARATION statement is a set of skills or a course that will help the student be successful but is not necessarily required for success.

Challenging Course Requisites and Limitations

Challenging course requisites and/or limitations requires written documentation that explains the alternative course work, background and/or abilities that adequately prepare you for the course. You may obtain a Requisite Challenge form from the Admissions and Records Office. Reasons for challenging requisites or limitations must include one or more of the following:

1. A requisite course is not reasonably available over a period of several semesters;
2. You believe the requisite or limitation was established in violation of a regulation or District- approved process for establishing requisites and limitations;
3. You believe the requisite or limitation is discriminatory or being applied in a discriminatory manner; or
4. You have the documented knowledge or ability to succeed in the course.

File your Requisite Challenge form with the school office or department head responsible for the course you want to enter. If space is available in the class at the time you file your challenge, you may register for the challenged course and the District will resolve your challenge in a timely manner. If your challenge is denied, you will be dropped from the challenged class.

If no space is available in the challenged class at the time you file, the District will resolve your challenge prior to the beginning of registration for the next term. You may register in the challenged class during your normal registration period if your challenge is approved.

Courses

ACCOUNTING (ACCTG)

ACCTG 1A 5.0 units

Principles of Accounting

90 hours lecture

Recommended Preparation:

ACCTG 200A or one year of bookkeeping

Grading: letter grade

The course presents the study of methods and techniques used in analyzing, recording and summarizing those procedures used in preparing a balance sheet along with the statements of income, retained earnings and cash flow for a corporation. Further, this course describes and illustrates financial accounting principles including classification of accounting activities, recording of financial transactions, along with the presentation of the four basic financial statements for internal and external users with an emphasis on the corporate form business entity.

Transferable to UC or CSU; see counselor for limitations

ACCTG 1B 5.0 units

Principles of Accounting

90 hours lecture

Prerequisite: ACCTG 1A

Grading: letter grade

Topics in this course include accounting theory and practice for manufacturing, departmental, and cost accounting techniques; performance evaluation; profit reporting and analysis; interpretation of financial statements and budgets; product pricing and performance evaluation; capital investment analysis; and business ethics. This course provides students with information and techniques used by management in evaluating the daily operations and related costs of a business, in planning future operations, making decisions, and developing overall business strategies.

Transferable to UC or CSU; see counselor for limitations

ACCTG 200A 3.0 units

Introduction to Accounting

54 hours lecture

Grading: letter grade

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, and 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 200A

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 15AD

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 familiarity and use of a PC.

Grading: letter grade or pass/no pass

Intro to basic small business accounting concepts and to a complete accounting software system. Provides hands-on exposure to the major features of the Quickbooks accounting software accompanied by instruction in the accounting concepts being employed.

ADMINISTRATION OF JUSTICE

(ADJUS)

ADJUS 2**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**3.0 units****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

ADJUS 4**3.0 units****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

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

ADJUS 6**3.0 units****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**3.0 units****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**3.0 units****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**3.0 units****Juvenile Law and Procedures**

54 hours lecture

Grading: letter grade

The course focus is juvenile justice and delinquency in America and how our Juvenile Justice System deals with juvenile offenders. Juvenile delinquency prevention and repression techniques are also covered. Delinquency diagnosis and referral is reviewed in conjunction with the availability of community resources to combat the problem. Juvenile law and related court procedures are also discussed.

Transferable to CSU

ADJUS 16**3.0 units****Vice, Narcotics and Organized Crime**

54 hours lecture

Grading: letter grade

This course will focus on the relationship between organized crime and the community. Covert criminal activities and their impact upon our social structure is also reviewed. Related criminal activities to organized crime, including vice, narcotics and white collar crime and their political influence on our legal system, are also discussed.

Transferable to CSU

ADJUS 17**3.0 units****Computer Use in Criminal Justice**

36 hours lecture, 54 hours laboratory

Grading: letter grade

The course focus is communications technology in the Criminal Justice System. Computer operations, wireless communications and geographic systems are emphasized. Ethical, legal and privacy issues that impact communications technology will also be covered. The computer assisted dispatch system, terminology, concepts and technology will also be included in this course.

Transferable to CSU

ADJUS 18**3.0 units****Police Field Operations**

54 hours lecture

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**3.0 units****Fingerprint Classification & Identification**

54 hours lecture

Grading: letter grade

This course provides an introduction to the science of fingerprint pattern recognition, comparison and identification. This course focuses on fingerprints of record, with an emphasis on the history and application of science to fingerprints and their role in the forensic domain. This is an interactive course where students will also participate in recording, developing, and comparing fingerprints.

Transferable to CSU

ADJUS 20**3.0 units****Introduction to Corrections**

54 hours lecture

Grading: letter grade

The course focus is a survey of the correctional science field. The early history and development of corrections is reviewed. Correctional theory and practice are discussed relative to potential causes of criminal behavior. Additionally, the criminal justice system processes relating to incarceration, probation and parole and their influence upon the offender's behavior and career opportunities are evaluated.

Transferable to CSU

ADJUS 40**.0 units****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**3.0 units****Drug Abuse and Law Enforcement**

54 hours lecture

Grading: letter grade

This course is designed to create an awareness of drug abuse in society. The historical perspective of controlled substance abuse is reviewed. Classification of drugs, symptomatic indicators of drug abuse and addiction are emphasized. The relationship between drug abuse, crime and law enforcement intervention is further discussed. Controlled substance abuse and the tactical response of the Criminal Justice System is also covered.

Transferable to CSU

ADJUS 253**3.0 units****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.

ADJUS 255**3.0 units****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 to administration of justice majors, and others with a specific interest in forensic methods.

ADJUS 269**3.0 units****Pre-Employment Preparation for Law Enforcement**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.

ALLIED HEALTH**(AH)****AH 60****3.0 units****Medical Terminology**54 hours lecture
Grading: letter grade

This course is designed to develop a comprehensive medical vocabulary. Emphasis will be placed on spelling, definitions, and pronunciation of terms related to the body systems and medical specialties. 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 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.

AH 223**1.0 unit****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**0.5 unit****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 **1.0 unit**

Health Care Law

18 hours lecture
Grading: letter grade

This course is designed to develop a basic understanding of health care law, medical ethics and how they relate to health care providers.

AH 285 **1.0 unit**

Health Care CPR and Vital Signs

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 Defibrillator training, and assessment of vital signs and their significance in patient care.

AIR CONDITIONING AND REFRIGERATION
(AC_R)

AC_R 211 **10.0 units**

Air Condition/Refrigeration Fundamentals

90 hours lecture, 270 hours laboratory
Grading: letter grade or pass/no pass

This is the beginning course of a four-semester program for persons to become technicians in industrial and/or commercial air conditioning and refrigeration. This course covers shop safety practices, HVAC terminology, pressure/ temperature relationships, heat transfer, analysis of components and complete systems, employee and employer relationship. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

AC_R 212 **10.0 units**

Electrical Theory/Component Applications

90 hours lecture, 270 hours laboratory
Grading: letter grade or pass/no pass

This course covers electrical systems found in heating, refrigeration and air conditioning installations and equipment. Also covered are formulas used in electrical theory, the interpretation of schematic wiring diagrams, electrical components and applications. This course also covers the

theory and lab work associated with motors, thermostats, controls, and circuit analysis. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

AC_R 213 **10.0 units**

Heating, Psychrometrics & Heat Loads

90 hours lecture, 270 hours laboratory
Prerequisite: AC_R 211 or AC_R 212
Grading: letter grade or pass/no pass

This course discusses comfort as it relates to the human body, psychrometrics, gas heating, and electric heating. The psychrometric chart is covered in detail. Total heat and building air conditioning specifications, including heating and cooling load calculations are discussed. Other topics include the forced air system, types of fans and fan drives, duct materials and fastening devices, and sizing duct and measuring air movement for balancing. Operating, safety, and electronic controls for air conditioning are covered. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

AC_R 214 **10.0 units**

Troubleshoot Total Comfort Systems

90 hours lecture, 270 hours laboratory
Prerequisite: AC_R 213
Grading: letter grade or pass/no pass

This is an advanced course that requires knowledge of troubleshooting of both electrical and mechanical equipment, electrical, electronic, and pneumatic controls. This course covers the complete electrical and mechanical design, service and troubleshooting of a commercial/industrial facility. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

AC_R 220 **3.0 units**

Refrigeration Fundamentals

45 hours lecture, 27 hours laboratory
Grading: letter grade or pass/no pass

This course is a basic study of vapor compression refrigeration cycle and system components. It includes shop safety practices, terminology, pressure/temperature relations, and heat transfer. System dehydration, recovery techniques, charging of refrigerants will also be covered. The material in this course will reflect the current Environmental Protection Agency (EPA) requirements of Section 608 of the Clean Air Act of 1990.

AC_R 223**3.0 units****Gas Heating Fundamentals**

45 hours lecture, 27 hours laboratory
 Recommended Preparation: AC_R 220
 Grading: letter grade or pass/no pass

This course will cover the theory, operation and application of natural gas heating systems used in residential and commercial heating installations including the properties of fuel gases, gas combustion, furnace construction pilot proving devices and troubleshooting systems.

AC_R 226**2.0 units****Air Properties and Measurement**

36 hours lecture
 Recommended Preparation: AC_R 220
 Grading: letter grade or pass/no pass

This course investigates the air side operating theory and application of comfort cooling systems. This course will include the psychometrics that will include the measurement and air distribution through duct design and component identification.

AC_R 229**3.0 units****Heat Pumps**

45 hours lecture, 27 hours laboratory
 Grading: letter grade or pass/no pass

This course will cover the theory, operation and application of heat pump systems used in residential and commercial heating and cooling installations. The heat pump refrigeration cycle, reversing valves, defrost methods, supplemental heat, airflow and thermostats will also be covered.

AC_R 230**3.0 units****Electrical Fundamentals**

45 hours lecture, 27 hours laboratory
 Recommended Preparation: AC_R 220
 Grading: letter grade or pass/no pass

This course includes the basic concepts of electrical principles as used in air conditioning and refrigeration. The development of schematic diagrams, the application of electrical components, the electrical sequence of operation, and troubleshooting of electrical systems will be covered.

AC_R 233**3.0 units****Commercial Electrical for HVAC**

45 hours lecture, 27 hours laboratory
 Prerequisite: AC_R 230
 Grading: letter grade or pass/no pass

This course covers electrical systems found in commercial heating, refrigeration and air conditioning systems. It will also include the topics of time clocks, defrost systems, three phase transformers, three phase motors, timers, sequencers, starting methods and troubleshooting of commercial electrical systems.

AC_R 236A**2.5 units****Automobile Air Conditioning**

36 hours lecture, 27 hours laboratory
 Recommended Preparation:
 AC_R 220 or AC_R 211 or AC_R 450A
 Grading: letter grade or pass/no pass

This course covers tools, equipment, refrigeration fundamentals, electrical systems, air distribution, installation and repair of automobile air conditioning. System dehydration, recovery techniques, charging of refrigerants will also be covered. The material in this course reflects the current Environmental Protection Agency (EPA) requirements of Section 609 of the Clean Air Act of 1990.

AC_R 240**4.0 units****Advanced Air Conditioning**

54 hours lecture, 54 hours laboratory
 Prerequisite: AC_R 220
 Grading: letter grade or pass/no pass

This is an advanced course that requires knowledge of air conditioning mechanical and electrical systems. This course will cover the operation, maintenance and troubleshooting of commercial and industrial HVAC systems. This course also covers theory and practices associated with chilled water systems, absorption chilled water systems, cooling towers and pumps. Equipment efficiency rating, EER and SEER are also covered.

AC_R 260**3.0 units****Solar Hot Water Heating**

45 hours lecture, 27 hours laboratory
 Grading: letter grade or pass/no pass

This course is a basic study on the essentials of installing code compliant solar thermal systems including Solar Hot Water and Solar Pool Heating. This course will cover the basic concepts, system configurations, guidelines and installation techniques involved with solar thermal systems. This course will consist of lecture, demonstration and lab activities. This course is designed for students who currently work in or plan to be employed in the solar hot water industry.

AC_R 400A**3.0 units****Uniform Mechanical Code I**

54 hours lecture
 Grading: letter grade or pass/no pass

This course will cover the purpose of the Uniform Mechanical Code. It will provide information about the complete requirements for the installation and maintenance of residential heating, ventilating, cooling and refrigeration systems.

AC_R 421A**3.0 units****Elect Controls for Refrig/Air Cond/Heat**

54 hours lecture

Grading: letter grade or pass/no pass

This course covers the theoretical and practical principles involving the control of air conditioning and refrigeration equipment. Topics covered are the selection, application and maintenance of automatic controls for heating, ventilation and cooling systems.

AC_R 421B**3.0 units****Pneumatic Controls for HVAC**

54 hours lecture

Prerequisite: AC_R 421A Grading: letter grade or pass/no pass

This is an advanced course that requires knowledge of basic air conditioning and refrigeration controls. This course covers the selection, application and maintenance of automatic controls found the large commercial/industrial facilities.

AC_R 422**3.0 units****Air Conditioning System Design and Installation**

54 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to estimating and selection of equipment used in residential, commercial and industrial air conditioning, heating and ventilating systems.

AC_R 450A**5.0 units****Transport Refrigeration**

72 hours lecture, 54 hours laboratory

Grading: letter grade

This course is an introduction to transport refrigeration. This course covers the application, function, power supply, basic operation, safety and troubleshooting of mechanical and electrical components of transport refrigeration equipment.

AC_R 450B**5.0 units****Advanced Transport Refrigeration**

72 hours lecture, 54 hours laboratory

Prerequisite: AC_R 450A

Grading: letter grade

This is an advanced course that requires knowledge of basic transport refrigeration. This course covers the complete application, service, and troubleshooting of transport refrigeration systems.

ANATOMY**(ANAT)****ANAT 1****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 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. Students are required to complete 4 hours of Supplemental Learning Assistance activities in designated Success Centers. Transferable to UC or CSU; see counselor for limitations

ANTHROPOLOGY**(ANTHR)****ANTHR 1****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**3.0 units****Honors Physical Anthropology**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course focuses on demonstrated understanding of the evolutionary physical characteristics that distinguish humans from other life forms. Major topics included in the course are human genetics, human physical variation, primatology, the origin and evolution of humans, and the synthetic theory of evolution. Transferable to UC or CSU; see counselor for limitations

ANTHR 1L**2.0 units****Physical Anthropology Laboratory**

18 hours lecture, 54 hours laboratory

Corequisite: ANTHR 1

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 CSU

ANTHR 2**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**3.0 units****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**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

LONG BEACH CITY COLLEGE 2016-2017 CATALOG

ANTHR 3H**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 10**3.0 units****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**5.0 units****Physical Anthropology Lecture & Lab**

72 hours lecture, 54 hours laboratory

Grading: 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 non-human primate anatomy and behavior, the primate/hominin fossil record, and analysis of human skeletal material. Transferable to CSU

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

ARCHITECTURAL DESIGN

(ARCHT)

ARCHT 60

8.0 units

Architectural Design

108 hours lecture, 108 hours laboratory

Recommended Preparation:

One year of high school drafting or DRAFT 201

Grading: letter grade

This is a beginning computer aided drafting (CAD) course that uses the most recent version of AutoCAD and focuses on developing basic architectural skills. The student will develop basic two-dimensional (2D) AutoCAD production drawing skills learning the relationship between plan, section and elevation drawings and use these to produce a preliminary set of production drawings for a simple building. Students learn to solve basic design problems of site design, space relationships, roof shapes and building aesthetics. Alternative solutions to design problems will be explored using freehand sketching and computer generated techniques.

Transferable to CSU

ARCHT 61

4.0 units

Architectural Design

54 hours lecture, 54 hours laboratory

Recommended Preparation:

One year of high school drafting or DRAFT 201

Grading: letter grade

This is a beginning computer aided drafting (CAD) course that uses the most recent version of AutoCAD and focuses on developing basic architectural skills. The student will develop two dimensional (2D) AutoCAD production drawing skills. ARCHT 61 is one half of ARCHT 60, is transferable and leads to a certificate in architectural drafting.

Transferable to CSU

ARCHT 62

4.0 units

Architectural Design

54 hours lecture, 54 hours laboratory

Prerequisite: ARCHT 61 or DRAFT 201

Grading: letter grade

This is a second semester computer aided drafting course that focuses on the development of basic architectural skills while using AutoCAD software. Students will learn to solve basic design problems of site analysis, space relationships, roof design, building aesthetics and material selection. Alternative solutions to design problems will be explored using the computer and freehand sketching techniques. The student will learn intermediate 2D AutoCAD with an introduction to 3D drawings. (Units and content are one half of ARCHT 60). Transferable to CSU

ARCHT 64

8.0 units

Architectural Design

108 hours lecture, 108 hours laboratory

Prerequisite: ARCHT 60 or ARCHT 62

Grading: letter grade

This is an intermediate level computer aided architecture course for transfer or occupational students. It is a drafting and design course where students will create 2D and 3D architectural designs, 2D construction drawings and build physical and digital models. Students will utilize freehand sketches and the latest 2D and 3D software (i.e. AutoCAD, Sketch-up). Drawings include: site, floor and roof plans, sections, elevations, schedules, foundation plan and limited details. An opportunity to enter a design competition and build a portable structure may exist in the spring semester.

Transferable to CSU

ARCHT 65

4.0 units

Architectural Design

54 hours lecture, 54 hours laboratory

Prerequisite: ARCHT 62 or ARCHT 60

Grading: letter grade

This is the first semester of two intermediate level architecture courses for the transfer, occupational or returning student. It is a drafting and design course where students will create 2D and 3D architectural designs, 2D construction drawings and build physical models. The student will use sketches and the latest AutoCAD software products. Drawings include: site plan, floor plan(s), roof plan & elevations. (Units and content are one half of ARCHT 64).

Transferable to CSU

ARCHT 66

4.0 units

Architectural Design

54 hours lecture, 54 hours laboratory

Prerequisite: ARCHT 65

Grading: letter grade

This is the second semester of two intermediate level architecture courses for the transfer, occupational or returning student. It is a drafting and design course focused on developing further the drawing skills learned in ARCHT 65, with an introduction to 3D drawing systems. Students will create 2D and 3D architectural designs, 2D construction drawings and build digital models utilizing sketches and the latest 2D & 3D software (i.e. AutoCAD, sketch-up). Drawings include: site, floor & roof plans, elevations, sections, schedules, foundation plan and limited details. (Units and content are one half of ARCHT 64).

Transferable to CSU

ARCHT 70A**8.0 units****Architectural Design**

108 hours lecture, 108 hours laboratory
 Prerequisite: ARCHT 64 or ARCHT 66
 Grading: letter grade

Formerly ARCHT 70AB. This is an advanced level computer aided architecture course (2 semesters) for transfer or occupational students. It is a drafting and design course that utilizes the latest AutoCAD products, freehand sketching and various 3D software products. Students will create complex 2D and 3D architectural designs, complete 2D building plans and build physical and digital models. Drawings include: architectural, structural, electrical, mechanical and construction details. An opportunity to enter a design competition and build a portable structure may exist in the spring semester.

Transferable to CSU

ARCHT 71A**4.0 units****Architectural Design**

54 hours lecture, 54 hours laboratory
 Prerequisite: ARCHT 64 or ARCHT 66
 Grading: letter grade

Formerly ARCHT 71AD. This is an advanced level computer aided architecture course for transfer, occupational or continuing student. It is a drafting and design course that utilizes the latest AutoCAD products, freehand sketching and various 3D software products. Students will create complex 2D and 3D architectural designs, complete 2D building plans and build physical and digital models. Drawings include: architectural site, floor, roof, elevation, section and construction details. (Units and content are equal to one-half of ARCHT 70).

Transferable to CSU

ARCHT 230**4.0 units****Building Information Modeling, Beginning**

54 hours lecture, 54 hours laboratory
 Recommended Preparation: ARCHT 60 or ARCHT 61 or familiarity with Architectural concepts.
 Grading: letter grade or pass/no pass

This is a beginning class in a series of three, aimed at individuals with a drafting background employed in architecture, interior design and other related fields, who wish to upgrade their skills in the area of parametric Building Information Modeling, BIM. Students will be instructed in the essentials of Revit Architecture or an equivalent BIM software. Instruction will emphasize the fundamentals of developing a BIM architectural modeling project and extracting formatted working drawings and a rendered presentation from the 3D model.

ARCHT 231**4.0 units****Building Information Modeling, Int.**

54 hours lecture, 54 hours laboratory
 Prerequisite: ARCHT 230
 Grading: letter grade or pass/no pass

This is an intermediate class second in a series of three aimed at individuals with a drafting background employed in architecture, interior design and other related fields who wish to upgrade their skills in the area of parametric Building Information Modeling, BIM. Students will be instructed in the essentials of Revit Architecture or an equivalent BIM software. Instruction will emphasize collaboration tools, advanced design development tools, and advanced construction document tools through the development of a high rise commercial structure project.

ARCHT 232**4.0 units****Building Information Modeling, Adv.**

54 hours lecture, 54 hours laboratory
 Prerequisite: ARCHT 231
 Grading: letter grade or pass/no pass

This is an advanced class the third in a series of three aimed at individuals with a drafting background employed in architecture, interior design and other related fields who wish to upgrade their skills in the area of parametric Building Information Modeling, BIM. Students will be instructed in the essentials of Revit Architecture or an equivalent BIM software. Instruction will enable students who have worked with BIM to expand their knowledge in the areas of Conceptual Design and BIM Management and the analysis of a BIM project per applicable Leadership in Energy and Environmental Design requirements, LEED, codes, and national standards.

ARCHT 240**3.0 units****Introduction to Green Design**

54 hours lecture
 Grading: letter grade

This course will provide an overview of environmentally responsible design including green and sustainable design application for Interior Designers. Case studies of green building projects will include evaluation of "green" interior finishes and materials, energy efficient lighting design, and water efficiency systems. This course will also provide preparation for the LEED Accredited Professional certification. Field trips will be required.

ARCHT 241**3.0 units****Introduction to LEED**

54 hours lecture

Grading: letter grade

This course will present an overview of LEED (Leadership in Energy and Environmental Design). The LEED rating system will be covered including: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources and Indoor Environmental Quality. This course will provide preparation for the LEED Accredited Professional certification. Field trips will be required.

ARCHT 360M1**1.5 units****Basic CAD for Architecture**

18 hours lecture, 36 hours laboratory

Recommended Preparation: One year high school drafting or DRAFT 201

Grading: letter grade

This is a beginning computer aided drafting (CAD) course that uses the most recent version of CAD. The course focus is on developing basic architectural knowledge and skills. The student will develop fundamental CAD skills and two dimensional (2D) sketch and production drawings. ARCHT 360M1 is one half of ARCHT 61 and leads to a certificate in architectural drafting.

ARCHT 360M2**1.5 units****Architecture Design CAD**

18 hours lecture, 36 hours laboratory

Recommended Preparation: One year of high school drafting or ARCHT 360M1

Grading: letter grade

This course is an entry level computer aided drafting (CAD) course that uses the most recent version of CAD. The focus is on developing basic architectural knowledge and drawing skills. The student will develop two dimensional (2D) CAD production drawings and be introduced to 3 dimensional (3D) drawing conventions. ARCHT 360M2 is one half of ARCHT 61 and leads to a certificate or associates degree in architectural drafting.

**ART
(ART)****ART 1****3.0 units****Art and Civilization**

54 hours lecture

Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.

Grading: letter grade or pass/no pass

This course explores the artistic heritage of Western civilization from prehistory to the end of the Gothic period through the study of major monuments of painting, sculpture and architecture. It emphasizes the development of art forms as reflective of the social, political, religious, and aesthetic sensibilities of the historical periods covered. The course is appropriate for art majors and non-art majors. Transferable to UC or CSU; see counselor for limitations

ART 1H**3.0 units****Honors Art and Civilization**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82

Grading: letter grade or pass/no pass

This course explores the artistic heritage of Western civilization from prehistory to the end of the Gothic period through the study of major monuments of painting, sculpture and architecture. It emphasizes the development of art forms as reflective of the social, political, religious, and aesthetic sensibilities of the historical periods covered. The course is appropriate for art majors and non-art majors. Transferable to UC or CSU; see counselor for limitations

ART 2**3.0 units****Art and Civilization**

54 hours lecture

Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82

Grading: letter grade or pass/no pass

This course is an historical approach to painting, sculpture, and architecture from Renaissance to modern times, emphasizing the relationship of art to concurrent philosophical, political, and social ideas. Discussions include key artists and their techniques. ART 1 is NOT a prerequisite. Transferable to UC or CSU; see counselor for limitations

ART 2H **3.0 units**

Honors Art and Civilization

54 hours lecture

Prerequisite: Qualification for the Honors Program
Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82
Grading: letter grade or pass/no pass

This course is an historical approach to painting, sculpture, and architecture from Renaissance to modern times, emphasizing the relationship of art to concurrent philosophical, political, and social ideas. Discussions include key artists and their techniques. ART 1 is NOT a prerequisite.
Transferable to UC or CSU; see counselor for limitations

ART 3 **3.0 units**

Modern and Contemporary Art

54 hours lecture

Recommended Preparation: Qualification through the English assessment process at an ENGL 105 or ESL 34 and READ 82 or met the college proficiency for English and Reading
Grading: letter grade or pass/no pass

This course surveys modern art from its mid-19th century beginnings to contemporary trends. Painting, sculpture, architecture and new art forms are explored in their broader cultural context.
Transferable to UC or CSU; see counselor for limitations

ART 3H **3.0 units**

Honors Modern and Contemporary Art

54 hours lecture

Prerequisite: Qualification for the Honors Program
Recommended Preparation: Qualification through the English assessment process at an ENGL 105 or ESL 34 and READ 82 or met the college proficiency for English and Reading
Grading: letter grade or pass/no pass

This course surveys modern art from its mid-19th century beginnings to contemporary trends. Painting, sculpture, architecture and new art forms are explored in their broader cultural context.
Transferable to UC or CSU; see counselor for limitations

ART 4 **3.0 units**

African, Oceanic, Native American Art

54 hours lecture

Recommended Preparation: Qualification through the English assessment process at an ENGL 105 or ESL 34 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 crafts of Black Africa, Australia, Melanesia, Polynesia and Pre-Columbian North America. These traditions will

be experienced through lectures, slides, movies, music and artifacts. The relationship of these areas to the mainstream of Western art also will be made.

Transferable to UC or CSU; see counselor for limitations

ART 4H **3.0 units**

Honors African, Oceanic, Native American Art

54 hours lecture

Prerequisite: Qualification for the Honors Program
Recommended Preparation: Qualification through the English assessment process at an ENGL 105 or ESL 34 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 crafts of Black Africa, Australia, Melanesia, Polynesia and Pre-Columbian North America. These traditions will be experienced through lectures, slides, movies, music and artifacts. The relationship of these areas to the mainstream of Western art also will be made.
Transferable to UC or CSU; see counselor for limitations

ART 5 **3.0 units**

History of Asian Art

54 hours lecture

Recommended Preparation: Qualification through the English assessment process at an ENGL 105 or ESL 34 and READ 82 or met the college proficiency for English and Reading
Grading: letter grade or pass/no pass

This course serves as a comprehensive introduction to the art traditions of India, Southeast Asia, China, Korea and Japan. The historical development of the arts is examined within their broader cultural context.
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 **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 majors.

Transferable to UC or CSU; see counselor for limitations

ART 11H **3.0 units**

Honors Pre-Columbian Art

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course explores pre-Columbian art from Mexico, Central and South America through the study of major monuments of sculpture, architecture, ceramics, textiles and painting. The slide-lecture format will be complemented by music, films and artifacts. The course is appropriate for art majors and non-art majors.

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

Intro to the basic concepts applied to art exhibitions and installation. A foundation of history, theory and criticism will acquaint students to the function of galleries and exhibits in society. Apply learning with hands-on experience, assisting in creating shows, caring for and cataloging art works, working with professional artists and installing exhibitions in the Long Beach City College Fine Arts Gallery.

Transferable to CSU

ART 15 **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 **3.0 units**

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

ART 17 **3.0 units**

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

ART 18 **3.0 units**

Illustration II

36 hours lecture, 72 hours laboratory

Recommended Preparation: ART 15 and ART 17

Grading: 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 portfolio-quality artwork. In addition, rendering, or sharp focus drawing techniques will be presented and incorporated in several projects.

Transferable to CSU

ART 19 **3.0 units**

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**3.0 units****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 24**3.0 units****Watercolor, Beginning**

36 hours lecture, 72 hours laboratory
 Recommended Preparation: ART 15
 Grading: letter grade or pass/no pass

This course offers an opportunity to explore and develop creative attitudes, values and personal expression in the 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**3.0 units****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**3.0 units****Figure Painting**

36 hours lecture, 72 hours laboratory
 Prerequisite: One Semester of 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 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**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

ART 32**3.0 units****Intermediate Design**

36 hours lecture, 72 hours laboratory
 Prerequisite: ART 30 or ART 31
 Grading: letter grade or pass/no pass

This course is a creative studio experience for the student preparing to enter a field of applied design, graphic design, product design, interior design, 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**1.0 unit****Three Dimensional Practicum**

54 hours laboratory
 Corequisite: ART 34 or 35 or 36 or 37 or 38 or 50 or 51 or 52 or 60 or 61 or 62 or 63
 Recommended Preparation: ART 30 and 31
 Grading: letter grade or pass/no pass

This course provides on-campus lab practice and the application of course content for introductory jewelry/metalwork courses. Must be taken concurrently with ART 35.
 Transferable to CSU

ART 34**3.0 units****Applied Design/Crafts**

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**4.0 units****Jewelry/Metalsmithing 1**

36 hours lecture, 126 hours laboratory
 Recommended Preparation: ART 30 and ART 31
 Grading: letter grade or pass/no pass

This course introduces the scope of contemporary metalsmithing through the design and construction of original projects. Knowledge of various specialized soldering, forming and surface techniques is demonstrated in the construction of projects. Emphasis is on skill acquisition and refinement in a context of art and design.
 Transferable to CSU

ART 36**4.0 units****Jewelry/Metalsmithing 2**

36 hours lecture, 126 hours laboratory
 Prerequisite: One semester of ART 35
 Grading: letter grade or pass/no pass

Formerly ART 36. 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 37**4.0 units****Jewelry/Metalsmithing 3**

36 hours lecture, 126 hours laboratory
 Prerequisite: One semester of ART 35
 Grading: letter grade or pass/no pass

This course introduces the scope and exploration of the basic hollowware techniques, die-forming, raising, chasing and repousse in contemporary jewelry and metalwork through the design and construction of original projects. Knowledge of various forming processes required for transposing two dimensional materials into three dimensional forms is demonstrated in the construction of projects. Emphasis is on skill acquisition and refinement in a context of art and design.
 Transferable to CSU

ART 38**4.0 units****Jewelry/Metalsmithing 4**

36 hours lecture, 126 hours laboratory
 Prerequisite: One semester of ART 35
 Grading: letter grade or pass/no pass

This course is a continuation of studies to techniques and concepts introduced in 35AD, 36AD, or 37AD with an emphasis on refinement of skills. Included segments may cover facets such as enameling, professional practices or other advanced areas.
 Transferable to CSU

ART 39**1.0 unit****Intermediate Jewelry/Metalwork Practicum**

54 hours laboratory
 Prerequisite: ART 35
 Corequisite: ART 36, ART 37 or ART 38
 Grading: letter grade or pass/no pass

This course provides on campus lab practice and the application of course content for jewelry/metalwork courses. Must be taken concurrently with ART 36, ART 37 or ART 38.
 Transferable to CSU

<p>ART 41</p> <p>Introduction to Computergraphics 36 hours lecture, 72 hours laboratory Grading: letter grade or pass/no pass</p> <p>This course will help demystify computer graphics for beginners and give a broad overview of the concepts involved in two dimensional computer graphic applications. The course covers terminology, basic operating systems and art related peripheral devices. Transferable to CSU</p>	<p>3.0 units</p>	<p>ART 45</p> <p>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</p> <p>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</p>
<p>ART 42</p> <p>Intro/3D & Multimedia Computergraphics 36 hours lecture, 72 hours laboratory Prerequisite: ART 41 Recommended Preparation: ART 30 Grading: letter grade or pass/no pass</p> <p>This course serves as an introduction to computer graphic production in the areas of three-dimensional and time based electronic media. It emphasizes the unique characteristics of three and four-dimensional realities as presented in electronic media. Students will explore the distinct visual characteristics of virtual dimensions in both time and space. Transferable to UC or CSU; see counselor for limitations</p>	<p>3.0 units</p>	<p>ART 46</p> <p>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</p> <p>Students digitally construct three-dimensional objects and learn to deal with abstract objects in virtual three-dimensional space. Specific relationships will be made between electronic modeling and the visual arts, in particular, sculpture, animation, illustration, and other areas of computer graphics. Transferable to UC or CSU; see counselor for limitations</p>
<p>ART 43</p> <p>Beginning Website Design 36 hours lecture, 72 hours laboratory Prerequisite: ART 41 Recommended Preparation: ART 31 Grading: letter grade or pass/no pass</p> <p>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</p>	<p>3.0 units</p>	<p>ART 47</p> <p>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</p> <p>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</p>
<p>ART 44</p> <p>Graphic Design Tools & Techniques 36 hours lecture, 72 hours laboratory Prerequisite: ART 41 Recommended Preparation: ART 31 Grading: letter grade or pass/no pass</p> <p>This course is an exploration of the basic use of computers for graphic design. Students learn the fundamentals of graphic design in preparation for visual communications for both digital and print media. By completing assignments on the computer, students will create documents that effectively combine text and graphics. Projects will be created using a variety of input and output devices as well as software. Transferable to CSU</p>	<p>3.0 units</p>	<p>ART 48</p> <p>Computer Art & Design for TV and Video 36 hours lecture, 72 hours laboratory Prerequisite: ART 41 Recommended Preparation: ART 31 Grading: letter grade or pass/no pass</p> <p>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</p>

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

Grading: letter grade or pass/no pass

Formerly ART 49AD. 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**3.0 units****Ceramics I**

36 hours lecture, 72 hours laboratory

Recommended Preparation: ART 30 and ART 31

Grading: letter grade or pass/no pass

Students will explore basic hand and wheel methods of forming, decorating and glazing three-dimensional ceramic forms. As students develop a personal awareness and appreciation of the creative process, they will use clay as a medium of aesthetic expression.

Transferable to UC or CSU; see counselor for limitations

ART 51**3.0 units****Ceramics II**

36 hours lecture, 72 hours laboratory

Prerequisite: ART 50

Recommended Preparation: ART 30 and ART 31

Grading: letter grade or pass/no pass

This course serves as a creative experience in the visual arts using clay as a medium of expression. Students will apply knowledge gained in the first course (Ceramics I) to solve more complex problems of forming, decoration and glazing three-dimensional ceramic forms.

Transferable to UC or CSU; see counselor for limitations

ART 52**3.0 units****Ceramics III**

36 hours lecture, 72 hours laboratory

Prerequisite: ART 51

Recommended Preparation: ART 30 and ART 31

Grading: 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

ART 53**3.0 units****Ceramics IV**

36 hours lecture, 72 hours laboratory

Prerequisite: ART 52

Recommended 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**3.0 units****Introduction to 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**1.5 units****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**4.0 units****Beginning Sculpture**

36 hours lecture, 126 hours laboratory

Recommended Preparation: ART 30

Grading: letter grade or pass/no pass

This is an introductory studio course structured to give students an understanding of the formal elements of sculpture, while investigating various materials and processes. Both additive and subtractive methods are explored using clay, plaster and wood, as well as non-traditional materials. This course is designed to allow students to investigate form, space, material and content through selected projects, readings, field trips, slides and discussions.

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 investigation of both historical and contemporary sculpture that may include carving, casting, modeling, welding, fiberglass lamination, installation and non-studio pieces. There is an emphasis on the advancement of technical and material skills as well as the understanding of an overall art making process. Students continue their investigation of form, space, material and content through selected projects, readings, field trips, lectures, and discussions.

Transferable to UC or CSU; see counselor for limitations

ART 62**4.0 units****Metal Fabrication 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 increase understanding of contemporary sculpture through a focus on the fundamentals of metal fabrication. This is an investigation of both historical and contemporary sculpture that may include oxy-acetylene, arc and heli-arc welding, basic forging, bending and cold-joint metal fabrication techniques. There is an emphasis on the advancement of technical and material skills as well as the understanding of an overall art making process. Students continue their investigation of form, space, material, and content through selected projects, readings, field trips, lectures, and discussions.

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 70**3.0 units****Printmaking, Silkscreen**

36 hours lecture, 72 hours laboratory

Grading: letter grade or pass/no pass

This course introduces the scope of the graphic art of printmaking as a means of personal expression. Students will learn the basic techniques of water-based serigraphy; blockout stencil, paper stencil and photo-emulsion 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**3.0 units****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: One Semester of 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 and mixed media.

Transferable to UC or CSU; see counselor for limitations

ART 80**3.0 units****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 black and white darkroom skills, operation of a camera, concepts and practices of fine art photography. It is suitable for students with beginning to advanced photographic skill levels. Transferable to UC or CSU; see counselor for limitations

ART 90**1.5 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 UC or CSU; see counselor for limitations

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.

ASTRONOMY**(ASTR)****ASTR 1****3.0 units****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, 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, and the universe as a whole, including not only their current state, but also theories of their origin and evolution. Transferable to CSU

ASTR 1L**2.0 units****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

(AMECH)

AMECH 50A

3.0 units

Machine Tool Operation and Practices

36 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

Formerly MACHT 50A. This course is designed to explore the machining techniques utilized in the machine shop. This entry level machining course covers safety practices required in the modern manufacturing industry. This course includes semi-precision layout, semi-precision /precision measurement, tools and equipment. Students learn to operate the milling machine and engine lathe. This course is primarily design as a supplemental course so that students in another field appreciate and apply techniques utilized in the machine shop. Transferable to CSU

AMECH 421

3.0 units

Auto Mechanics 1

36 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course is an introductory course covering the principles of the operation of the modern automobile. This course will provide practical experience in maintenance and repair at the owner operator level. Consumer awareness is emphasized.

AMECH 424

3.0 units

Auto Air Conditioning

36 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course covers automotive tools, automotive equipment, automotive refrigeration fundamentals, automotive electrical systems, automotive air distribution, automatic air conditioning, installation, maintenance, and repair of modern automotive air conditioning systems. Emphasis is based on industrial repair and maintenance.

AMECH 430

6.0 units

Auto Wheel Alignment

90 hours lecture, 54 hours laboratory
Recommended Preparation: High school auto mechanics or AMECH 421
Grading: letter grade or pass/no pass

This course covers automotive wheel alignment theory, design, operation, power flow, suspension, and steering in automotive vehicles and small trucks. This course will also include testing, diagnostics, and modern methods of servicing vehicles. ASE (Automotive Service Excellence) testing preparation is emphasized.

AMECH 432

6.0 units

Automotive Brake Systems

90 hours lecture, 54 hours laboratory
Recommended Preparation: AMECH 421
Grading: letter grade or pass/no pass

Covers the theory, design and operation of the standard, disc and anti-lock brake systems common to most autos and small trucks. Includes testing, diagnosing and modern methods of servicing the brake system.

AMECH 436

6.0 units

Automatic and Standard Transmissions

90 hours lecture, 54 hours laboratory
Recommended Preparation: High school auto or AMECH 421
Grading: letter grade or pass/no pass

This course covers the construction, operation, maintenance, adjustment and overhaul of manual and automatic transmissions.

AMECH 438

6.0 units

Auto Emission Controls

90 hours lecture, 54 hours laboratory
Recommended Preparation: High school auto mechanics or AMECH 421
Grading: letter grade or pass/no pass

This course covers the California State approved "Clean Air Course," as well as preparation for the California Inspection and Maintenance Emission Control License. Also, this course covers operation and testing of computer-controlled oxygen feedback systems and use of the California State approved BAR97 Emissions Inspection System (EIS). This course is intended for students wishing to complete an A.S. Degree and/or a Certificate of Completion in Automotive Technology. This course is also the first of two courses necessary to prepare for a license exam administered by the State of California Smog Check Program for the Enhanced Emissions areas.

AMECH 440

6.0 units

Automotive Computer Systems

90 hours lecture, 54 hours laboratory
Recommended Preparation: AMECH 421
Grading: letter grade or pass/no pass

This course covers the operation and testing of computer controlled oxygen feedback systems, the use of the California State Approved Emission Inspection System (EIS) and the use of hand-held auto systems analyzers. Students will prepare to take the ASE (Automotive Service Excellence) and the California state emission control license tests.

AMECH 442**6.0 units****Automotive Fuel Systems**

90 hours lecture, 54 hours laboratory
 Recommended Preparation: AMECH 421
 Grading: letter grade or pass/no pass

This course covers the testing and repair of auto fuel systems (carburation and fuel injection) and operation of auto oscilloscopes for testing (Conventional and computer assisted purposes). Prepare to take the ASE (Automotive Service Excellence) test. This course will also explain electrical and fuel systems on Diesel, Hybrid, LNG (Liquid Natural Gas), CNG (Compressed Natural Gas) and Hydrogen Fuel cells.

AMECH 444**6.0 units****Automotive Electrical Systems**

90 hours lecture, 54 hours laboratory
 Recommended Preparation: AMECH 421
 Grading: letter grade or pass/no pass

This course covers testing and repair of automotive electrical charging and starting systems, ignition systems (conventional and transistorized). This course is designed to assist the student with preparation for the ASE (Automotive Service Excellence) test.

AMECH 461**6.0 units****A-1 Engine Repair Specialty**

90 hours lecture, 54 hours laboratory
 Grading: letter grade or pass/no pass

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.

ADVANCED TRANSPORTATION TECHNOLOGY

(ATT)

ATT 480**3.5 units****Intro to Hybrid & Electric Vehicles**

54 hours lecture, 27 hours laboratory
 Grading: letter grade

Formerly AMECH 480. This course is a hands-on approach to the world of Hybrid, Fuel Cell and Electric powered vehicles. Discover how this new technology works as it replaces existing fossil fueled engines. Examine existing technologies, conversion processes, testing, assembly, operation, and maintenance of Hybrid-Electric, Fuel Cell and Battery Powered electric vehicles. Appropriate safety related instruction is included.

ATT 481**3.5 units****Advanced Hybrid & Electric Vehicles**

54 hours lecture, 27 hours laboratory
 Grading: letter grade

Formerly AMECH 481. This course furthers the student's skills in electric vehicles (EVs) and hybrid electric vehicles (HEVs) and provides an introduction to advanced EV designs and propulsion systems. The students will work with hybrids, Fuel Cells & A/ drive systems in advanced design electric vehicles. The course includes: EV design and construction; the testing, assembly, operation and maintenance of EVs; the influence of aerodynamic design; advanced technology batteries and intelligent charging systems; hydrogen fuel cell technology and alternative EV drive systems. Appropriate safety related instruction will be included in each segment.

ATT 482**3.5 units****Heavy Duty Hybrid & Electric Vehicles**

54 hours lecture, 27 hours laboratory
 Grading: letter grade

This course introduces the students to heavy-duty electric vehicles (HD-EVs) and heavy-duty hybrid electric vehicles (HD-HEVs) and provides an introduction to advanced HD-EV designs and propulsion systems. The students will work with heavy-duty hybrids, Fuel Cells & A/ drive systems in advanced design heavy-duty electric vehicles. The course includes: HD-EV design and construction; the testing, assembly, operation and maintenance of HD-EVs; the influence of aerodynamic design; advanced technology batteries, super-capacitors, intelligent charging systems; hydrogen fuel cell technology and alternative HD-EV drive systems. Appropriate safety related instruction will be included in each segment.

ATT 483**3.5 units****Advanced Hybrid Diagnosis & Repair**

54 hours lecture, 27 hours laboratory
 Grading: letter grade

Formerly AMECH 483. This course increases the student's skill and knowledge and provides updated information in hybrid-electric vehicle technology. The course emphasizes OEM (original equipment manufacturer) hybrid vehicle diagnosis and repair utilizing OEM diagnosis tools and methodology. Appropriate safety related instructions will be included in each segment.

ATT 490**3.5 units****Introduction to Alternative Fuels**

54 hours lecture, 27 hours laboratory
 Grading: letter grade

Formerly AMECH 490. Alternative fueled vehicles are extensively used in fleet service. This NATEF certified course covers theory of operation, installation, testing, troubleshooting and repair of gaseous fuels with a focus on natural

gas. Includes both dedicated and after-market systems. Gasoline and diesel powered vehicles are discussed with an emphasis on computer- controlled fuel injection. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test in compressed natural gas systems is included.

ATT 491 **3.5 units**

Heavy Duty Alternative Fuels

54 hours lecture, 27 hours laboratory
Grading: letter grade

Formerly AMECH 491. Heavy duty/diesel alternative fueled vehicles with an emphasis on natural gas. Includes the theory of operation, installation, testing, trouble-shooting and repair of alternatively-fueled heavy duty vehicles with both dedicated and after-market systems. Lab intensive training in Natural Gas spark fired vehicles emphasizing computer controlled fuel management. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test are included.

ATT 492 **3.5 units**

Alt Fuel Engine Diagnosis & Repair

54 hours lecture, 27 hours laboratory
Grading: letter grade

Formerly AMECH 492. Covers OEM and aftermarket spark ignited, alternatively-fueled truck and bus engines with an emphasis on computer controlled fuel management. The theory of operation, conversion, trouble-shooting and maintenance of alternatively-fueled heavy duty engines, emphasizing natural gas and computer controlled fuel management systems. Includes both factory and after-market dedicated systems. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test are included.

ATT 493 **3.5 units**

Alt Fuels Conversion, Diagnosis & Repair

54 hours lecture, 27 hours laboratory
Grading: letter grade

Formerly AMECH 493. Covers diagnosis and repair of light and medium duty alternative fuel vehicles including aftermarket and OEM systems. The theory of installation, regulations and certification, manufacturing techniques and trouble-shooting of alternatively-fueled vehicles, emphasizing natural gas and computer controlled fuel management systems. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test are included.

ATT 494 **3.5 units**

Heavy Duty LNG Fuel Systems

54 hours lecture, 27 hours laboratory
Grading: letter grade

This course concentrates on the diagnosis and repair of Liquefied Natural Gas (LNG) fuel systems as used in Heavy Duty applications. The cryogenic aspects of fuel storage and delivery to the engine will be discussed in both Pilot and Spark Ignited applications. The proper safe handling of LNG fuel will also be emphasized and included in the instruction.

ATT 801 **2.0 units**

Quick Service Tech-Lubrication Service

36 hours lecture, 4 hours laboratory
Grading: pass/no pass

Formerly AMECH 801. Learning to be a Quick-Service Lubrication Technician is one of the fastest ways to a job in automotive technology. This one-week course prepares you to enter this field immediately with skills needed for an entry-level job doing oil changes, lubrication, under hood services and vehicle inspections. Job seeking skills are included. This course is also excellent for the do-it-yourselfer who wants to learn how professionals do a lubrication service.

ATT 802 **2.0 units**

Quick Service Tech-Tire Service

36 hours lecture, 4 hours laboratory
Grading: pass/no pass

Formerly AMECH 802. Learning to be a Quick Service Tire Technician is one of the fastest ways to a job in automotive technology. This one-week course prepares you to enter this field immediately with skills needed for an entry-level job doing tire rotation, repair, replacement, balancing and vehicle inspections. Job seeking skills are included. This course is also excellent for the do-it-yourselfer who wants to learn how professionals do tire service.

ATT 803 **2.0 units**

Quick Service Tech-Brake Inspection

36 hours lecture, 4 hours laboratory
Grading: pass/no pass

Formerly AMECH 803. Learning to be a Quick Service Brake Inspection Technician is one of the fastest ways to a job in automotive technology. This one-week course prepares you to enter this field immediately with skills needed for an entry-level job doing brake safety inspections and vehicle inspections. Job seeking skills are included. This course is also excellent for the do-it-yourselfer who wants to learn how professionals do brake service.

BASIC ADULT EDUCATION

(BAE)

BAE 601A

0.0 unit

Basic Skills Development I

270 hours laboratory

Grading: LBCC Non-Graded Course

This is a non-credit course designed to assist students in acquiring the knowledge and skills necessary for college and career readiness. Students will participate in a self-paced, flexible, open-entry/exit course that provides structured and supportive modularized instruction. This course emphasizes development of basic reading, writing, math and college and career preparation skills for students who (1) are or plan to enroll in credit courses and programs, (2) are preparing to take exams or certifications for academic or employment programs, or (3) are returning and/or adult students wishing to prepare for academic success. The course is the first in a series of 2 courses leading to a Certificate in Basic Skills for College and Career Readiness.

BAE 601B

0.0 unit

Basic Skills Development II

270 hours laboratory

Grading: LBCC Non-Graded Course

This course is part of a non-credit program designed to improve basic skills for students whose abilities range from pre-high school through pre-college level. The course emphasizes the development of basic reading, writing and math skills for students who: (1) are enrolled, or plan to enroll, in regular courses and need to improve or refresh their basic educational skills; (2) are preparing to take exams or need to develop basic skills for employment or special educational/vocational programs or college/university entrance; (3) wish to review or complete their secondary education; or (4) wish to improve their mastery of English as a Second Language. This course is part of a sequence of courses leading to a Certificate of Completion in Basic Skills for the Workplace.

BIOLOGY

(BIO)

BIO 1A

5.0 units

Biology for Science Majors

54 hours lecture, 108 hours laboratory

Prerequisite: CHEM 1A

Grading: letter grade

This is the first semester of a one-year survey of biology. It includes the chemistry of life, cellular organization, biological membranes, energetics, genetics, evolution and diversity of prokaryotes, protista, and fungi.

BIO 1B

5.0 units

Biology for Science Majors

54 hours lecture, 108 hours laboratory

Prerequisite: BIO 1A

Grading: letter grade

This is the second semester of a one-year survey of biology. It includes an overview of structures and life processes in plants and animals, animal and plant taxonomies, ecology, and behavior.

Transferable to UC or CSU; see counselor for limitations

BIO 2

5.0 units

General Microbiology

54 hours lecture, 108 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to the anatomy of bacteria, fungi, protozoa, viruses and prions. It covers microbial metabolism, 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

BIO 5

4.0 units

Plant Biology

54 hours lecture, 54 hours laboratory

Grading: letter grade or pass/no pass

This course utilizes lecture, lab, and fieldwork to present the student with fundamental concepts and principles of plant life, including a study of plant structure, function, and diversity. Intended for the non-science major. Not open to students registered in or with credit in BIO 1A.

Transferable to UC or CSU; see counselor for limitations

<p>BIO 11</p> <p>Environmental Problems of Man 54 hours lecture Grading: letter grade or pass/no pass</p>	<p>3.0 units</p>	<p>BIO 25</p> <p>Biology and Society 54 hours lecture Grading: letter grade or pass/no pass</p>	<p>3.0 units</p>
<p>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</p>		<p>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</p>	
<p>BIO 20</p> <p>Marine Biology 54 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass</p>	<p>4.0 units</p>	<p>BIO 28</p> <p>Field Natural History of the Mountains 23 hours lecture, 36 hours laboratory Grading: letter grade or pass/no pass</p>	<p>2.0 units</p>
<p>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</p>		<p>This course introduces students to the physical and biological aspects of mountain ecosystems, using lecture, laboratory, and at least two weekend field trips. An emphasis is placed on life zones and the identification of their representative plants and animals. Transferable to CSU</p>	
<p>BIO 20H</p> <p>Honors Marine Biology 54 hours lecture, 54 hours laboratory Prerequisite: Qualification for the Honors Program Grading: letter grade or pass/no pass</p>	<p>4.0 units</p>	<p>BIO 30</p> <p>Wildlife Biology 54 hours lecture, 54 hours laboratory Grading: letter grade or pass/no pass</p>	<p>4.0 units</p>
<p>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</p>		<p>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</p>	
<p>BIO 22</p> <p>The Marine Environment 54 hours lecture Grading: letter grade or pass/no pass</p>	<p>3.0 units</p>	<p>BIO 31</p> <p>Birds 27 hours lecture, 27 hours laboratory Grading: letter grade or pass/no pass</p>	<p>2.0 units</p>
<p>This course focuses on the marine environment as a unique feature of the Earth and investigates areas of scientific and public concern: the pervasiveness of the ocean and its effect on weather, its contributions to the diversity of life forms and to the physical and historical development of humankind, its impact on geopolitical and economic matters, the impact of oceanic pollutants and the potential exploitation of marine resources. Transferable to CSU</p>		<p>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</p>	

BIO 37**2.0 units****Field Natural Hist: South Calif. Deserts**

23 hours lecture, 36 hours laboratory
 Grading: letter grade or pass/no pass

This natural history course utilizes lecture, laboratory, and field trips to acquaint students with the basic physical and biological features of the desert environment. Plants and animals of the desert ecosystem are covered with an emphasis on their adaptations to the environment.
 Transferable to CSU

BIO 38**2.0 units****Field Natural History: Newport Bay**

23 hours lecture, 36 hours laboratory
 Grading: letter grade or pass/no pass

This natural history course utilizes lecture, laboratory, and field trips to study the estuarine wetland habitats of Newport Bay. Students will become acquainted with the basic physical, biological, historical, and political background of the bay. The common plants and animals will be studied with an emphasis on adaptations.
 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****Honors Contemporary Biology**

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

BIO 41L**1.0 unit****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**1.0 unit****Honors Contemporary Biology Lab**

54 hours laboratory
 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 CSU

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 pre-requisite needs of the health occupations student. This course is not open for credit to students registered in or with credit in ANAT 1 and PHYS 1.
 Transferable to UC or CSU; see counselor for limitations

BIO 60L**1.0 unit****Human Biology 1 Laboratory**

54 hours laboratory
 Prerequisite: BIO 60 (may be taken concurrently)
 Grading: letter grade or pass/no pass

Human Biology lab provides a practical experience in a computerized-tutorial setting. Experiments and demonstrations are selected which clarify the principles developed in BIO 60. Not open for credit to students registered in or with credit in BIO 1A-B or 5.
 Transferable to UC or CSU; see counselor for limitations

BIO 61**3.0 units****Human Biology 2**

54 hours lecture

Prerequisite: BIO 60 or ANAT 41 or (ANAT 1 and PHYSI 1).

Grading: letter grade or pass/no pass

This course is an introduction to the study of disease, including cause, prevention and symptoms of the common human diseases. The course assumes a basic understanding of anatomy and physiology. Biology 61 is designed for the general student and those in the health technology fields. Transferable to UC or CSU; see counselor for limitations

BUSINESS COMMUNICATIONS

(BCOM)**BCOM 15****3.0 units****Business**

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.

BCOM 20**3.0 units****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**3.0 units****Digital Social Media**

54 hours lecture

Grading: letter grade or pass/no pass

This course teaches students how to use online social media tools and explore the design and impact of these new technologies for both personal and professional branding. Students will learn best practices by understanding social media etiquette and ethics. Students will explore the possibilities and limitations of social media and will have hands-on experience with several forms of social media technology. Those who complete this course will know how to use social media productively and have a framework for understanding and evaluating new tools and platforms. Transferable to CSU

BCOM 216**1.0 unit****Proofreading Skills**

18 hours lecture

Grading: letter grade or pass/no pass

Formerly CAOTO 216. Students develop skills in detecting and correcting errors in office documents through the study of basic English and proofreading principles.

BCOM 222**3.0 units****Job Search Skills**

54 hours lecture

Recommended Preparation: COSK 200

Grading: 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. This includes career planning skills, resume and cover letter preparation, interview and interview follow-up skills, successful employment test completion, and the relationship of life-long learning to career success.

BCOM 223**3.0 units****Law Office Procedures-Litigation**

54 hours lecture

Recommended Preparation: COSA 10 or COSK 200

Grading: letter grade or pass/no pass

Formerly CAOTO 223. This course is designed to provide instruction in the legal secretary's role in a law office setting, with a focus on legal procedures applicable to civil litigation. Topics covered will include legal terminology, legal office routine, preparation of legal documents relating to litigation cases, procedures for court filings, calendaring, and the use of a legal forms creation software application.

BCOM 224**3.0 units****Law Office Procedures**

54 hours lecture

Recommended Preparation: COSA 10 or COSK 200

Grading: letter grade or pass/no pass

Provides training in legal office routine, the setting up of legal documents in the areas of family law, real estate, workers compensation, wills and probate, procedures for court filing and calendaring and obtaining and completing Judicial Council and state and local court forms and pleadings.

BCOM 260**1.0 unit****Business Telephone Procedures**

18 hours lecture

Grading: 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 and state-of-the-art telephone-related equipment in the business office, in order to maximize their use as business communication tools.

BCOM 261**3.0 units****Business English**

54 hours lecture

Grading: letter grade or pass/no pass

Formerly CAOTO 261. This course develops the foundation skills of mechanics of English that competent workers need to be competitive in the workplace. These skills include a thorough training: spelling, grammar, punctuation, sentence structure, and word usage. Emphasis will also be placed on developing a business vocabulary.

BCOM 262**1.0 unit****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 263**3.0 units****Customer Service**

54 hours lecture

Grading: 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.

BUSINESS, GENERAL**(GBUS)****GBUS 5****3.0 units****Introduction to Business**

54 hours lecture

Grading: letter grade

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**3.0 units****Personal Financial Management**

54 hours lecture

Grading: letter grade

This course is designed to equip students with the financial literacy skills needed to effectively manage their personal finances and make sound lifelong financial decisions. Students will examine their relationships with money and develop an understanding of the social, psychological, and physiological contexts that influence financial decisions. Students will learn the financial tools needed to analyze, plan and manage their financial resources at different life stages. Topics include budgeting, income tax, managing basic assets, home buying, managing credit, analyzing and managing investments, managing insurance, retirement planning, and estate planning. 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.

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**3.0 units****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 export-import 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 18A
Grading: letter grade

This course is designed to explore the fundamentals of international business law and examine the scope of how international disputes affect global trade. It is appropriate for students who wish to pursue a career in the business field, especially those students interested in international business.
Transferable to CSU

IBUS 75**3.0 units****Introduction to Logistics**54 hours lecture
Grading: letter grade

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

BUSINESS, LAW (LAW)

LAW 18A**3.0 units****Business Law**54 hours lecture
Grading: letter grade

This course is designed to explore the overall fundamental understanding of business law today. It examines the scope of how contracts and tort law affect the civil legal process as well as the nature of our current business environment. It is appropriate for students who wish to pursue a career in the business field.
Transferable to UC or CSU; see counselor for limitations

LAW 18B**3.0 units****Business Law**54 hours lecture
Grading: letter grade

This course is designed to explore the overall fundamental operations of several distinct legal business entities and corporate structures. It examines the scope of how agency and employment law affect the nature of how business decisions are made and their significance. It is appropriate for students who wish to pursue a career in the business field, especially those students interested in business management or business law.
Transferable to UC or CSU; see counselor for limitations

LAW 20**3.0 units****Property Law**54 hours lecture
Grading: letter grade

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, co-ownership, methods of property transfer, landlord/tenant law, property contract, agency, and financing concepts, and government controls.
Transferable to CSU

BUSINESS, MANAGEMENT (MGMT)

MGMT 49A**3.0 units****Introduction to Management**54 hours lecture
Grading: letter grade

Introduction to Management is the entry level management course designed to introduce the traditional management tasks of planning, organizing, influencing and controlling. Course topics will include important issues such as innovation, technology, diversity, quality, ethics and the global environment.
Transferable to CSU

MGMT 49B**3.0 units****Human Resources Management**54 hours lecture
Grading: letter grade

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**3.0 units****Leadership and Supervision**

54 hours lecture

Grading: letter grade

This course is designed for the first-line manager to develop necessary skills for success in a diverse workplace. Focus will be on human behavior issues such as ethics, motivation, 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****3.0 units****Salesmanship**

54 hours lecture

Grading: letter grade

This course is designed for those looking at a career in professional sales or as a refresher for current sales professionals. The course objective is to develop a thorough understanding of the importance of professional selling within the entire marketing process, with an emphasis on developing strong customer relationships.

Transferable to CSU

MKTG 41**3.0 units****Marketing Communications**

54 hours lecture

Grading: letter grade

This course will help the student develop a thorough understanding of the various forms of marketing communications, such as advertising, sales promotion, direct-response and publicity/public relations. The focus will be on the concept of Integrated Marketing Communications as one of the functions of marketing strategy.

Transferable to CSU

MKTG 47**3.0 units****Essentials of Marketing**

54 hours lecture

Grading: letter grade

This course will analyze the importance of the marketing concept throughout an organization. Students will develop the skills necessary to plan, organize and implement a marketing strategy for a product or service. These skills are useful for both entry and mid-level marketing positions.

Transferable to CSU

CARPENTRY**(CARP)****CARP 211****10.0 units****Carpentry 1**

108 hours lecture, 234 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to the fundamentals of the building trades. Topics of instructions include: safety, building codes, construction mathematics, rough framing, residential concrete, residential concrete forms, blueprint reading, and technical information on materials and methods of residential construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work. Students are required to attend 10 hours at the CTE Success Center for specially designed activities and assignments that relate to this course's content.

CARP 212**10.0 units****Carpentry 2**

108 hours lecture, 234 hours laboratory

Prerequisite: CARP 211

Grading: letter grade or pass/no pass

This course will cover the topics of safety and rough framing. Rough framing includes mudsills and their placement, girder placement, foundation types including slab on grade and stemwall foundation, floor joists, sub-flooring, wall framing systems, ceiling joists and roughing out stairs. Field trips and special projects will also be part of this course.

CARP 213**10.0 units****Carpentry 3**

108 hours lecture, 234 hours laboratory

Prerequisite: CARP 211

Grading: letter grade or pass/no pass

This is an advanced course in Carpentry covering various residential construction trades. Topics of instructions include: safety, building codes, construction mathematics, rough framing, residential roof framing, exterior finishes, interior finishes, blueprint reading, and technical information on materials and methods of residential construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

CARP 219**4.0 units****Residential Roof Framing**

36 hours lecture, 108 hours laboratory

Recommended Preparation: CARP 211

Grading: letter grade

This is an advanced course in Carpentry covering residential roof framing. Topics of instruction include roof structures, calculations and layout of various rafters, codes requirements, roof construction, and estimating. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

CARP 222**4.0 units****Residential Stairs**

36 hours lecture, 108 hours laboratory

Recommended Preparation: CARP 211

Grading: letter grade

This is an advanced course in Carpentry covering residential stairs framing. Topics of instruction include stair design, calculation, layout, and construction. Practical instruction is given in the carpentry laboratory work.

CARP 225**4.0 units****Metal Framing**

36 hours lecture, 108 hours laboratory

Recommended Preparation: CARP 211

Grading: letter grade

This course covers the fundamentals of residential light steel framing. Topics include: raised floor construction, wall framing, trussed roof fabrication and installation, applicable building codes and blueprint reading. The fundamentals are learned through laboratory work which requires the use of standard construction tools and materials.

CARP 227**4.0 units****Finish Carpentry**

36 hours lecture, 108 hours laboratory

Recommended Preparation: CARP 211

Grading: letter grade

This is an advanced course in carpentry covering 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; interior design, estimating, and layout. Practical instruction is given in the carpentry laboratory.

CARP 230**4.0 units****Cost Estimating**

72 hours lecture

Recommended Preparation: CARP 440

Grading: letter grade or pass/no pass

This course is designed for those individuals needing to produce accurate project estimates; topics will include interpretation of project information from a detailed blueprint and processing it into a final detailed estimate.

CARP 245**3.0 units****Contracting Laws and Management**

54 hours lecture

Grading: letter grade

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.

CARP 311**3.0 units****Carpentry 1**

29 hours lecture, 77 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to the fundamentals of the building trades. Topics of instruction include safety, building codes, construction mathematics, rough framing, concrete formwork and placement, blueprint reading, and technical information on alternative "Green Technology" materials and methods of construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

CARP 312**3.0 units****Carpentry 2**

29 hours lecture, 77 hours laboratory

Grading: letter grade or pass/no pass

This course will cover safety and rough framing and will include: mudsills and their placement, girder placement, floor joists, sub-flooring, wall framing systems, and ceiling joists.

CARP 313**3.0 units****Carpentry 3**

29 hours lecture, 77 hours laboratory
Grading: letter grade or pass/no pass

This course is an introduction to the fundamentals of the building trades. Topics of instruction include safety, roof types, roof theory, exterior wall finish, interior finish, and stairway construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

CARP 314**3.0 units****Carpentry 4**

29 hours lecture, 77 hours laboratory
Grading: letter grade or pass/no pass

This is an advanced course in Carpentry covering residential foundation designs, form construction, and advanced wood frame construction. Topics of instruction include the installation of concrete forms, building layout, concrete placement, and Post and Beam Construction. Practical instruction is given in the carpentry laboratory.

CARP 415A**2.0 units****Home Remodeling and Repair**

18 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course focuses on home improvement projects and introduces the student to basic home remodeling. Topics will include safety, building codes, obtaining building permits, rough mechanical, trade related math, hand and power tools, techniques for installing or repairing plumbing fixtures, electrical repairs and upgrades, and energy saving concepts.

CARP 415B**2.0 units****Home Remodeling and Repair**

18 hours lecture, 54 hours laboratory
Prerequisite: CARP 415A
Grading: letter grade or pass/no pass

This course focuses on home improvement projects and introduces the student to basic home remodeling. Topics will include safety, building codes, framing floor systems, framing walls with door and windows, trade related math, hand and power tools, framing various roof systems, and related construction hardware.

CARP 415C**2.0 units****Home Remodeling and Repair**

18 hours lecture, 54 hours laboratory
Prerequisite: CARP 415B
Grading: letter grade or pass/no pass

This course in home remodeling covers interior sub-crafts. Topics of instruction include insulation, safety, drywall, finish carpentry, tile, estimating, and relevant codes. Practical instruction is given in the carpentry laboratory work.

CARP 415D**2.0 units****Home Remodeling and Repair**

18 hours lecture, 54 hours laboratory
Prerequisite: CARP 415C
Grading: letter grade or pass/no pass

This course in home remodeling covers exterior sub-crafts. Topics of instruction include exterior flashing, safety, roofing, stucco, estimating, exterior siding, and relevant building codes. Practical instruction is given in the carpentry laboratory work.

CARP 440**3.0 units****Blueprint Reading for Construction Trade**

54 hours lecture
Grading: letter grade or pass/no pass

This course introduces students to construction blueprint reading through a study of the fundamental skills and concepts involved in reading and interpreting drawings.

CHEMISTRY**(CHEM)****CHEM 1A****5.5 units****General Chemistry**

72 hours lecture, 90 hours laboratory
Prerequisite: CHEM 2 or Qualification through the LBCC assessment process and MATH 130, 130B, Qualification through the LBCC placement process for Math, or one year of high school intermediate algebra with a grade of B or better in the second semester
Recommended Preparation: One year high school Chemistry.
Grading: letter grade or pass/no pass

This is the first semester of a one year course which satisfies the general chemistry requirement for science, engineering, and premed majors. Topics covered include atomic theory and bonding, the periodic table and chemical properties, thermochemistry, chemical reactions, solids, liquids and solutions, gases and the ideal gas law. 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**5.5 units****General Chemistry**

72 hours lecture, 90 hours laboratory
Prerequisite: CHEM 1A
Grading: letter grade or pass/no pass

This course is the second semester of a one year course and fulfills the general chemistry requirement for students in chemistry, engineering, life science, physics, pre-dental, pre-medical, and pre-nursing programs. Topics covered include equilibrium of weak acids and bases, slightly soluble salts and complex ions in aqueous solution. The basic principles of

thermodynamics and electrochemistry are presented, along with an introduction to coordination, nuclear and organic chemistry. The lab stresses descriptive inorganic chemistry and qualitative analysis.

Transferable to UC or CSU; see counselor for limitations

CHEM 2

4.5 units

Elementary Chemistry

72 hours lecture, 36 hours laboratory

Prerequisite: MATH 110 or MATH 110B or MATH 880 or Qualification through the LBCC assessment process for Math or one year high school Elementary Algebra with a grade of B or better as reflected in the second semester grade. Grading: letter grade or pass/no pass

This course is a prerequisite for CHEM 1A and prepares science or pre-professional majors, who are required to take CHEM 1A, but lack adequate preparation. This course provides basic knowledge and problem solving techniques necessary for CHEM 1A-B. Formula and equation writing, basic gas laws and stoichiometry are stressed. Students should be aware that many schools (CSULB included) do not allow credit for 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

5.0 units

Intro to Gen, Organic & Biochemistry

72 hours lecture, 54 hours laboratory

Prerequisite: MATH 110 or MATH 110B or MATH 880 or Qualification through the LBCC assessment process for Math or one year high school Elementary Algebra with a grade of B or better as reflected in the second semester grade. Grading: letter grade or pass/no pass

This course will introduce the principles of general, organic and biological chemistry. A variety of topics will be addressed, including atomic theory, chemical formulas, nomenclature, stoichiometry, solutions, acids and bases, hydrocarbons, alcohols and ethers, carbonyl compounds, carbohydrates, lipids, amino acids and proteins, nucleic acids, biochemical energetics and metabolism. Lab work will reinforce basic concepts and provide experience in manipulating lab equipment. This course satisfies the needs of Nursing, Home Economics and Allied Health Sciences. This course does not prepare students for CHEM 1A.

Transferable to UC or CSU; see counselor for limitations

CHEM 4

4.0 units

Survey of Chemistry and Physics

54 hours lecture, 54 hours laboratory

Prerequisite: MATH 110 or MATH 110A or 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.

Transferable to CSU

CHEM 12A

5.5 units

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 one year course 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

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 the second semester of a one year course which satisfies the Chemistry requirement for science, engineering, and pre-medical or pre-dental majors.

Transferable to UC or CSU; see counselor for limitations

CHILD & ADULT DEVELOPMENT EARLY CHILDHOOD EDUCATION

(CDECE)

CDECE 1

1.0 unit

The Developing Professional

18 hours lecture

Grading: letter grade or pass/no pass

This course focuses on professional development in Early Childhood Education and explores various types of programs and opportunities for specific occupations. This course also provides students with an opportunity to conduct a job search, investigate the interviewing process, improve communication skills and build a plan for professional competency development.

Transferable to CSU

CDECE 19

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 an 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

2.0 units

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

3.0 units

Children's Literature DS3

54 hours lecture

Grading: letter grade

This course examines traditional and contemporary children's literature including poetry, fiction, non-fiction 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

3.0 units

Infant Development & Educaring D4

54 hours lecture

Prerequisite: CDECE 45 or CDECE 47

Grading: letter grade

This course is a study of the infant, pre-birth to 18 months of age. Topics will include: the role of the adult in designing, evaluating and implementing the educare (education and care) of infants in center-based programs, family home care and parental care, based on and respectful of, the infant's unique abilities and needs. The course will also cover developmental theories, program quality standards, laws and regulations (Title 22), the role of the primary caregiver, curricula, culturally sensitive care, as well as early recognition and intervention for infants with special needs. Information about the health, nutrition and safety components of infant care is included as well. This course meets the Department of Social Services Classification Indicator DS4.

Transferable to CSU

CDECE 41

3.0 units

Toddler Development & Educaring D4

54 hours lecture

Prerequisite: CDECE 45 or CDECE 47

Grading: letter grade

This course is a study of the educaring (education and care) of toddlers 18 to 36 months of age. Topics will include: the role of the adult in a center-based program, in family home care and parental care; an overview of child development theories pertinent to this age; and activities and methods which nurture the toddler's intellectual, language, emotional, social, personality and motor development. The course will also cover effective behavior management; laws and regulations (Title 22), program quality standards, group size and continuity of care, the role of the primary caregiver, culturally sensitive care; as well as early recognition and intervention for toddlers with special needs, and information about the health, nutrition and safety components of toddler care. This course meets the Department of Social Services Classification Indicator DS4.

Transferable to CSU

CDECE 45

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 **3.0 units**

Human Development

54 hours lecture

Grading: 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 **3.0 units**

Child, Family and Community D2

54 hours lecture

Grading: 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 **3.0 units**

Intro to Curriculum for Young Children

54 hours lecture

Prerequisite: 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.

CDECE 53 **3.0 units**

Principles and Practices

54 hours lecture

Grading: letter grade or pass/no pass

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

CDECE 57 **3.0 units**

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

CDECE 58**3.0 units****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**3.0 units****Advanced Supervision of ECE D6**

54 hours lecture

Prerequisite: CDECE 45 or CDECE 47

Grading: letter grade or pass/no pass

This course covers 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**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**3.0 units****Observation and Assessment DS3**

36 hours lecture, 54 hours laboratory

Prerequisite: CDECE 45 or CDECE 47.

Recommended Preparation: CDECE 48 and CDECE 50.

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 negative TB test is required. Transferable to CSU

CDECE 68**3.0 units****Practicum D3**

36 hours lecture, 72 hours laboratory

Prerequisite: CDECE 1 and CDECE 19 and CDECE

48 and CDECE 50 and CDECE 53 and CDECE 61

and CDECE 66 and CDLL 51A or CDLL 52A

Grading: letter grade or pass/no pass

This course provides students the opportunity to demonstrate developmentally-appropriate early childhood teaching competencies 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. Child centered, play-oriented approaches to teaching, learning, and assessment will be utilized. Knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. There are 72 hours of lab experience over the course of the semester. 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 self-image will be covered. Methods of teaching children friendship skills, feeling vocabularies, problem solving, and anger management are included. Observations at a variety of sites in the community will be required in this course. An additional three to five hours of child observation, outside of regular class hours is required for this course.

CHILD & ADULT DEVELOPMENT FAMILY DAY CARE

(CDFDC)

CDFDC 212A

3.0 units

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.

CHILD & ADULT DEVELOPMENT FAMILY DEVELOPMENT

(CDF)

CDF 210A

3.0 units

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.

CHILD & ADULT DEVELOPMENT LEARNING LAB

(CDLL)

CDLL 52

3.0 units

Fieldwork/Preschool Techniques

36 hours lecture, 54 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of current concepts and research in early childhood education through lectures and lab participation. It is designed for child development majors, early childhood education majors and parents. Proof of a negative TB test is required for participation and observation in the children's program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing. Transferable to CSU

CDLL 52B**2.0 units****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

CDLL 603**0.0 unit****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, including the child care program, providing guided education and observation.

**CHILD & ADULT DEVELOPMENT
 SCHOOL AGE PROGRAM
 (CDSA)**

CDSA 62**3.0 units****Creative Express for School Age Children**

54 hours lecture
 Grading: letter grade or pass/no pass

This course is a study of the principles, methods and materials that encourage creative expression in school children. School age environments, activities and behavior management techniques will be discussed. Hands-on participation in creative activities will be featured. Transferable to CSU

CDSA 63**3.0 units****The School Age Child**

36 hours lecture, 54 hours laboratory
 Grading: letter grade

This course is a study of the physical, social, emotional and cognitive development of the school age child, emphasizing the interaction of children and teachers in child care settings. Three hours of observation/ participation at approved sites are required each week. Transferable to CSU

CDSA 65**3.0 units****School Age Curriculum**

54 hours lecture
 Grading: letter grade

This course is a survey of curriculum and activities appropriate for the school age child. Students who are interested in working with children in before and after-school care will practice developing, modifying, setting up and presenting age appropriate, school-age activities. These activities will cover all areas of the curriculum. Transferable to CSU

CDSA 75**3.0 units****School Age Child Care Practicum D5**

36 hours lecture, 54 hours laboratory
 Prerequisite: CDECE 45 or CDECE 47 and CDSA 62, CDSA 63 and CDSA 65
 Grading: letter grade

This is a hands-on course in which students are provided an opportunity to plan, prepare, present and evaluate curriculum activities offered to school-age children (6-12) in various public and private school-age child care settings. Thirty additional hours of program participation, proof of negative TB test and fingerprint clearance are required. Transferable to CSU

**CHILD & ADULT DEVELOPMENT
 SPECIAL EDUCATION
 (CDESED)**

CDESED 5**3.0 units****Community Resources/Special Education**

54 hours lecture
 Grading: letter grade or pass/no pass

This course studies community resources that identify, support, and enhance the lives of children and families with special needs. Agencies concerned with the health, education and welfare of children and families with special needs are studied in depth along with the influence of culture and family structures on student outcome. Transferable to CSU

CDESED 67**3.0 units****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

CDESED 69**3.0 units****Special Education Practicum**

36 hours lecture, 54 hours laboratory

Prerequisite: CDESED 67, 5, 70 and CDECE 45 or 47

Grading: letter grade

Students will plan, prepare, execute and evaluate various experiences with disabled individuals in schools and agencies in the greater Long Beach area. As well, they will learn specific techniques of working with children, adults, parents and staff to provide an appropriate experience for the disabled individual. There are 54 lab hours required for this course.

Transferable to CSU

CDESED 70**3.0 units****Curriculum for Special Needs**

54 hours lecture

Grading: letter grade

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

COMMUNICATION STUDIES**(COMM)****COMM 10****3.0 units****Elements of Public Speaking**

54 hours lecture

Grading: letter grade or pass/no pass

Formerly SP 10. The theory and practice of public speaking is explored through the analysis, construction and delivery of various types of speeches.

Transferable to UC or CSU; see counselor for limitations

COMM 10H**3.0 units****Honors Elements of Public Speaking**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This is an Honors Communication Studies Course. The theory and practice of public speaking is explored through the analysis, construction and delivery of various types of speeches. Eligibility for the Honors program is required for enrollment.

Transferable to CSU

COMM 20**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 approach to the study of the process of communication at both the intrapersonal and interpersonal levels. Time will be devoted to both the study of theories and experiments within the field of communication studies and their practical applications as related to perception, listening, non-verbal communication, conflict resolution and one's self-concept.

Transferable to CSU

COMM 25**3.0 units****Elements of Intercultural Communication**

54 hours lecture

Grading: 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 cultural patterns, cultural rules of interaction, linguists, and nonverbal communication.

Transferable to UC or CSU; see counselor for limitations

COMM 30**3.0 units****Elements of Group Communication**

54 hours lecture

Grading: letter grade or pass/no pass

Formerly SP 30. 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**3.0 units****Elements of Leadership Communication**

54 hours lecture

Grading: letter grade or pass/no pass

Formerly SP 31. 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 50**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**3.0 units****Elements of Argumentation and Debate**

54 hours lecture

Grading: letter grade or pass/no pass

Formerly 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

COMPUTER ACADEMY CISCO NETWORKING

(CISCO)

CISCO 250**3.0 units****Communications Cabling Installation**

45 hours lecture, 27 hours laboratory

Grading: letter grade

This course introduces students to the basic skills and knowledge required for employment as a network wiring installer. The course includes introductions to cabling tools, installation practices, color codes, copper-based cable systems, cable testing, workplace safety, and the National Electrical Code (NEC) as it applies to network wiring.

CISCO 251**3.0 units****Introduction to Networking**

45 hours lecture, 27 hours laboratory

Grading: letter grade

This is the first course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes introductions to networking devices, IP Addressing, routing, switching, media and design, topology, cabling, electricity, electronics and network management. The instruction is based on the Cisco Networking Academy curriculum.

CISCO 252**3.0 units****Routing and Access Control**

45 hours lecture, 27 hours laboratory

Prerequisite: CISCO 251

Grading: letter grade

This is the second course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes OSI layers 1-7, local vs. wide area networks, TCP/IP, IP addressing, routing, router components and configuration of the Cisco IOS, routing protocols and access control lists. The instruction is based on the Cisco Networking Academy curriculum.

CISCO 253**3.0 units****Cisco Networking III, LAN**

45 hours lecture, 27 hours laboratory

Prerequisite: CISCO 252

Grading: letter grade

This is the third course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes EIGRP and OSPF routing, LAN switching, VLAN and LAN design. The instruction is based on the Cisco Networking Academy curriculum.

CISCO 254**3.0 units****WAN's and Remote Access**

45 hours lecture, 27 hours laboratory

Prerequisite: CISCO 253

Grading: letter grade

This is the fourth course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes IP address conservation, VLSM, wide area network design, configuration of PPP, ISDN and Frame relay protocols. The instruction is based on the Cisco Networking Academy curriculum.

COMPUTER & OFFICE STUDIES APPLICATION SOFTWARE

(COSA)

COSA 1**1.0 unit****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.
Transferable to CSU

COSA 5**3.0 units****Microsoft Windows Operating System**

54 hours lecture

Grading: 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. This course provides students with an understanding of computer hardware basics, functions and features of Windows, Internet technologies, email, monitoring and tracking system performance, and controlling computer security. Through hands-on practice, students will learn to use Windows programs such as Windows Explorer, Internet Explorer, Media Player, Movie Maker, Live Messenger, Photo Gallery, Word Pad, and Paint. This course satisfies the technology portion of the information competency requirement.

Transferable to CSU

COSA 10**4.0 units****Microsoft Word for Windows**

72 hours lecture

Recommended Preparation: COSA 1 or type 45 wpm

Grading: letter grade or pass/no pass

Formerly CAOTC 39A and COSA 10AD. This course provides extensive hands-on instruction using Microsoft Word and its editing, formatting, and language tools to create, format, save, revise, and print various business and report documents. Students will create flyers, newsletters, templates, and other publication documents using advanced formatting techniques and tools. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam. Transferable to CSU

COSA 15**4.0 units****Microsoft Excel for Windows**

72 hours lecture

Recommended Preparation: COSA 1

Grading: letter grade or pass/no pass

Formerly CAOTC 41E and COSA 15AD. This course covers beginning, intermediate, and advanced spreadsheet concepts using Microsoft Excel and is for anyone working (or wanting to work) in a setting where numeric data is collected, maintained, analyzed, manipulated, and presented. Excel has many applications in business, education, and government as well as personal and home use. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam. Transferable to CSU

COSA 20**3.0 units****Microsoft PowerPoint for Windows**

54 hours lecture

Recommended Preparation: COSA 1

Grading: letter grade or pass/no pass

Formerly CAOTC 44D and COSA 20AD. This class provides a thorough exploration of presentation graphics software. Through hands-on practice, students learn to combine text and graphic images to develop computerized slide shows, transparencies, charts, and printed materials for group presentations. Students also create presentations with animations and audio, publish presentations for web and CD, use work group collaboration features, and integrate with other programs. In the research component students create presentations based on information gathered from electronic sources. 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 Microsoft Office Specialist (MOS) industry certification exam.

Transferable to CSU

COSA 25**4.0 units****Microsoft Access for Windows**

72 hours lecture

Recommended Preparation: COSA 1

Grading: letter grade or pass/no pass

Formerly CAOTC 47A and COSA 25AD. This class provides an introduction to Microsoft Access, a computerized relational database management system. Through hands-on practice, students learn to create and modify tables, queries, reports, forms, data access pages, macros, and modules. Students will also learn to share information by integrating Access with data and other applications. This course 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 Microsoft Office Specialist (MOS) industry certification exam. This course satisfies the technology portion of the information competency requirement.

Transferable to CSU

COSA 30**3.0 units****Introduction to Computers**

54 hours lecture

Recommended Preparation: COSA 1

Grading: 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

COSA 35

4.0 units

Microsoft Office

72 hours lecture

Recommended Preparation: COSA 1

Grading: letter grade or pass/no pass

Formerly CAOTC 35. Microsoft Office is a beginning, hands-on course that teaches students to create, edit, format, and integrate a wide range of business documents. Students will use Microsoft Word, Excel, PowerPoint, and Access. Computer hardware basics and the use of the internet for business and research purposes will also be covered. This course 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 Microsoft Office Specialist (MOS) industry certification exam.

Transferable to CSU

COSA 40

4.0 units

Microsoft Office - Advanced

72 hours lecture

Recommended Preparation: COSA 35

Grading: letter grade or pass/no pass

Formerly CBIS 6C and CAOTC 235. Microsoft Office-Advanced is an advanced hands-on course. Students will process a wide range of complex assignments requiring advanced formatting and functionality. Students will use Microsoft Word, Excel, Access, and PowerPoint. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam.

Transferable to CSU

COSA 45

2.0 units

Living Online

36 hours lecture

Grading: letter grade or pass/no pass

Formerly CAOTC 45 and CBIS 206C. This course is a comprehensive overview of Internet and Web concepts that have changed the way people find information, communicate with others, and conduct business activities.

Transferable to CSU

COSA 50

4.0 units

Intro to IT Concepts & 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. Internet, Word processing, spreadsheets, databases, presentation software, and basic internet use will be covered. Spreadsheet use for business will be emphasized. This course satisfies the technology portion 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 UC or CSU; see counselor for limitations

COSA 210

3.0 units

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 IT project management. Popular project management software will be introduced. In addition, the class will focus on the methods and techniques for managing technology projects as well as preparing students for the CompTIA's IT Project+ certification.

COSA 214

2.0 units

Records Management and Filing

36 hours lecture

Grading: letter grade or pass/no pass

Formerly CAOTO 214. Students in this course are introduced to the expanding area of records and information management and technologies which integrate the computer with other automated records systems. They examine the Association of Records Managers and Administrators (ARMA International) filing standards to alphabetically store and retrieve physical and electronic systems. This includes alphabetic, subject, numeric, and geographic storage methods.

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 using Microsoft Outlook. Topics include how to send and receive e-mail, manage contacts, plan and track tasks, schedule the calendar, and integrate Outlook with other applications and the internet. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam.

COSA 270**2.0 units****Help Desk Concepts**

36 hours lecture

Recommended Preparation: COSA 50

Grading: letter grade or pass/no pass

Formerly BCOM 270. This course provides an introduction to help desk concepts and procedures which include help desk operations, technology and information components, as well as help desk setup, customer support, and resources.

COMPUTER & OFFICE STUDIES KEYBOARDING

(COSK)**COSK 200****3.0 units****Beginning Keyboarding and Document Production**

36 hours lecture, 54 hours laboratory

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 202**3.0 units****Advanced Keyboarding and Document Production**

36 hours lecture, 54 hours laboratory

Recommended Preparation: COSK 200 or type 35 wpm.

Grading: letter grade or pass/no pass

Formerly CAOTT 201. 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. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam.

COSK 209**1.0 unit****Speed/Accuracy Bldg. for Typists**

18 hours lecture, 18 hours laboratory

Recommended Preparation: COSK 200 or COSK 233 or type 25 wpm

Grading: letter grade or pass/no pass

Formerly CAOTT 209AB and COSK 209AD. This intermediate-level course helps to increase computer keyboarding speed and accuracy. Students receive individual analysis, tips on improving their technique, and guided practice.

COSK 233**1.0 unit****Computer Keyboarding Skills**

18 hours lecture, 18 hours laboratory

Grading: 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 250**3.0 units****Data Processing**

36 hours lecture, 54 hours laboratory

Recommended Preparation: COSK 200 or type 30 wpm

Grading: letter grade or pass/no pass

Formerly COSK 250A/B. This course prepares students for careers requiring the use of a computer to enter, compile, and interpret information. Keying skills are developed utilizing multiple computer applications with a speed goal of 9,000 keystrokes/hour with 98% accuracy and the objective of successfully entering, validating, manipulating, and analyzing data. The opportunity to practice the skills in a simulated workplace situation will be provided, as well as techniques for finding and avoiding errors.

COMPUTER & OFFICE STUDIES NETWORKING & OS

(COSN)**COSN 3****4.0 units****Operating Systems: Software and Hardware**

72 hours lecture

Recommended Preparation: COSA 50

Grading: letter grade

Formerly CBIS 3. This course covers the command-line operating systems and Windows operating systems maintenance skills required for A+ certification expected of computer technicians. (See COSN 5 for the hardware portion of A+).

Transferable to CSU

COSN 5**4.0 units****Computer Hardware Fundamentals**

72 hours lecture

Recommended Preparation: COSA 50

Grading: letter grade or pass/no pass

Formerly CBIS 200. This course emphasizes personal computers and the latest common components and hardware features such as microprocessors, motherboards, buses, input/output controllers and memory, and other components. Class lectures will be supplemented with "hands on" classroom labs using diagnostic software and tools. This course will prepare

students for the hardware portion of the A+ Certification Exam. (See COSN 3 for the Software portion of A+ Certification Exam).
Transferable to CSU

COSN 10 **4.0 units**

Networking Fundamentals

72 hours lecture
Grading: 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, communications protocols, network topologies, transmission media, security, and assessment of career opportunities in networking. 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 200 **2.0 units**

Wireless and Mobile Devices

36 hours lecture
Corequisite: COSN 10
Grading: 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. These technologies include infrared, Bluetooth, and wireless local area networks. In the lab, the student will actually install and configure a wireless local area network. The students will learn how to set up a wireless network in their home and secure it from unauthorized outside access.

COSN 205 **4.0 units**

Unix/Linux Fundamentals

72 hours lecture
Recommended Preparation: COSA 50
Grading: 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/Linux 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 210 **4.0 units**

LINUX Server Administration

72 hours lecture
Recommended Preparation: COSN 205
Grading: 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 225 **3.0 units**

Microsoft Windows Client

54 hours lecture
Recommended Preparation: COSN 10
Grading: 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 230 **4.0 units**

Microsoft Windows Server

72 hours lecture
Recommended 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****Introduction to Cloud Computing**

54 hours lecture

Recommended Preparation: COSA 50

Grading: letter grade or pass/no pass

This course educates students about cloud deployment and service models, cloud infrastructure, and key considerations in migrating to cloud computing. The course covers technologies required to build classic, virtualized, and cloud data center environments. These technologies include computing, storage, networking, desktop, and application virtualization. Additional focus areas are security, recovery, and management. Students will learn about the steps involved and key considerations in transitioning from the current data center model to a cloud computing environment.

COMPUTER & OFFICE STUDIES PROGRAMMING

(COSP)**COSP 7****4.0 units****Programming Concepts and Methodologies**

72 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 8**4.0 units****Visual Basic Programming**

72 hours lecture

Recommended Preparation: COSA 50

Grading: 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. Transferable to UC or CSU; see counselor for limitations

COSP 10**4.0 units****Introduction to # Programming**

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 # 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**4.0 units****Systems Analysis and Design**

72 hours lecture

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. Transferable to CSU

COSP 38**4.0 units****Database Concepts**

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 201**1.0 unit****Mobile App Development**

27 hours lecture

Recommended Preparation: COSA 1

Grading: 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 **3.0 units**

Android App Development in Java

54 hours lecture
Prerequisite: CS 21A 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 238 **3.0 units**

Advanced Database Concepts

54 hours lecture
Recommended Preparation: COSP 38
Grading: letter grade or pass/no pass

Formerly CBIS 246AD. In this course, students will learn about the major areas of database administration: installation and maintenance of MS SQL Server; -SQL programming; database performance, logging, backup, recovery, security and replication; and the role of a database administrator. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Technology Associate (MTA) industry certification exam.

**COMPUTER & OFFICE STUDIES
SECURITY**

(COSS)

COSW 270 **1.0 unit**

Information Security Fundamentals

18 hours lecture
Grading: 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.

COSP 271 **3.0 units**

Network Security Fundamentals

54 hours lecture
Recommended Preparation: COSN 10 and COSW 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. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Technology Associate (MTA) industry certification exam.

COSS 272 **3.0 units**

Computer Forensics and Investigation

54 hours lecture
Recommended Preparation: COSN 5
Grading: letter grade or pass/no pass

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 **4.0 units**

Ethical Hacking and Countermeasures

72 hours lecture
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.

**COMPUTER & OFFICE STUDIES
WEB DESIGN**

(COSW)

COSW 10 **4.0 unit**

Beginning Website Development

72 hours lecture
Recommended Preparation: COSA 50
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 using 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 and forms, using CSS for layout and design, creating responsive websites and working with content management systems. 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****Dynamic HTML Web Construction**

72 hours lecture

Recommended Preparation: COSW 10

Grading: letter grade or pass/no pass

Formerly CBIS 207E. This course is a web page construction course focusing on emerging HTML standards, XML, JavaScript and other scripting languages.

Transferable to CSU

COSW 200**4.0 units****Introduction to Java Script**

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 a introduction to using popular libraries including jQuery.

COSW 220**4.0 units****Web Development with PHP/MySQL**

72 hours lecture

Recommended Preparation: COSW 10

Grading: letter grade or pass/no pass

Formerly CBIS 420. This course introduces PHP & MySQL, one of the most popular technology combinations for developing interactive Web sites. It is designed to introduce beginning database driven website programming concepts for personal and small business needs. It is recommended that students coming into this course have a beginning knowledge of Web development concepts including HTML and CSS.

COSW 221**3.0 units****Database Programming with PHP/MySQL II**

54 hours lecture

Prerequisite: COSW 220

Recommended Preparation: COSW 10 and COSP 38

Grading: letter grade or pass/no pass

Formerly COSW 251. This is the second course in PHP programming with a MySQL database for developing data driven web sites. Students can expect to write PHP code to create real world database applications that allow for database record creation, update, deletion and retrieval. Emphasis will be placed on creating web forms, searching databases, and session management.

COSW 230**3.0 units****Ruby on Rails Web Development**

54 hours lecture

Recommended Preparation: COSW 20, CS 11, CS 21A,

COSP 8, COSP 38, or COSP 216

Grading: letter grade or pass/no pass

Formerly CBIS 430. This course is an introduction to using Ruby on Rails (or RoR) a dynamic web development framework. Students will be taught programming in Ruby language and MySQL management. Installation, development, testing, and the structure of the Ruby on Rails framework will be covered. This course is intended for web developers and others interested in getting a quick start in this technology.

COSW 240**3.0 units****Intro to Content Management Systems**

54 hours lecture

Recommended Preparation: COSW 10

Grading: letter grade or pass/no pass

Formerly CBIS 206C. Students will learn to create sophisticated, dynamic, and interactive websites using Drupal, a Content Management System (CMS). Topics include installation of Drupal, managing user accounts, customizing modules, designing themes, setting up blogs and discussion forums, creating site navigation, site administration, and the use of modules, blocks, nodes, content types and fields.

COMPUTER PROFICIENCY FOR ACADEMIC SUCCESS

(CPAS)**CPAS 1****1.0 unit****Using the Mac as a Tool for Learning**

18 hours lecture, 18 hours laboratory

Grading: letter grade or pass/no pass

This course provides an introduction to the computer and software products helpful in performing classroom tasks. Students are given the opportunity to develop computer skills that will enhance their ability to effectively complete course work. This course satisfies the information competency requirement. This course satisfies the technology portion of the information competency requirement.

Transferable to CSU

CPAS 2**3.0 units****Critical Thinking Using Computers**

54 hours lecture

Grading: letter grade or pass/no pass

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 CSU

CPAS 10 **2.0 units**

Advanced Computer Skills for Learning

18 hours lecture, 54 hours laboratory
Recommended Preparation: Basic computer experience in word processing, spreadsheets and graphics or CPAS 1.
Grading: letter grade or pass/no pass

This is an advanced course which explores the academic application of popular software packages. The student will learn to use the computer effectively to prepare documents for any class using word processing, desktop publishing, spreadsheets, graphics manipulation, web presentations, and Internet resources. This course satisfies the information competency graduation requirement. This course satisfies the technology portion of the information competency requirement.
Transferable to CSU

COMPUTER SCIENCE

(CS)

CS 11 **4.0 units**

Computer Programming: ++ I

72 hours lecture
Prerequisite: MATH 110 or MATH 110B or first year high school algebra of a grade of B or better.
Recommended Preparation: COSP 7 and COSA 50
Grading: letter grade

This is an introductory course in the ++ programming language, a problem solving technique used in modern software technology. The features of ++ 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 **4.0 units**

Computer Programming: ++ II

72 hours lecture
Prerequisite: CS 11
Grading: letter grade

A second course in ++ includes: further explanation of ++ areas (data types, input/output, data structures, pointers and accessing files) and object-oriented programming (object hierarchy, operator overloading and streams).
Transferable to UC or CSU; see counselor for limitations

CS 21 **4.0 units**

Java: Computer Science 1

72 hours lecture
Recommended Preparation: COSP 7, COSA 50, MATH 110/110B or First year high school algebra.
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 procedure oriented approach.
Transferable to UC or CSU; see counselor for limitations

CS 22 **3.0 units**

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 51 **4.0 units**

Introduction to Computer Architecture

72 hours lecture
Prerequisite: COSP 8 or CS 11 or CS 21
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.
Transferable to UC or CSU; see counselor for limitations

CS 61 **4.0 units**

Discrete Structures

72 hours lecture
Prerequisite: COSP 8 or CS 11 or CS 21
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

CONSTRUCTION TECHNOLOGY

(CONST)

CONST 201A **3.0 units**

Mathematics for the Trades

54 hours lecture
Grading: letter grade

This course covers a study of mathematics used in construction trades. Topics in arithmetic, fractions, decimals, percents, graphing, measurement and introduction to algebra are covered. This course is the same as ELECT 202.

CONST 201B **4.0 units**

Algebra and Trigonometry for the Trades

72 hours lecture
Prerequisite: MATH 805 or MATH 815 or CONST 201A
Grading: letter grade

This course will present basic algebra and trigonometry and their application to the solution of practical problems in technical (mechanical, electrical, construction) fields.

CONST 203B **2.0 units**

OSHA Safety Standards for General Industry

36 hours lecture
Grading: pass/no pass

This course covers OSHA 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.

CONST 203C **2.0 units**

OSHA Safety & Health Regulations for Longshoring

36 hours lecture
Grading: pass/no pass

This course covers OSHA safety and health regulations for longshoring. Topics include scope and application of the OSHA safety standards in the maritime environment. 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 Maritime Industry Outreach Training Program Completion Card.

CONST 206 **3.0 units**

Workplace Competency Skills

54 hours lecture
Grading: letter grade

This is a course to prepare students with the necessary employment skills for a career in the construction industry. Topics covered will include core soft skills, including how to communicate effectively, become a team player, resolve problems and conflicts, and succeed in a diverse and changing workforce. Students will learn vital workplace skills through designed exercises as well as how employers evaluate these skills in their employees. Employment tests, and job interviews will be covered.

CONST 207 **3.0 units**

Blueprint Reading for Construction

54 hours lecture
Grading: letter grade or pass/no pass

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 208 **1.0 unit**

Apprenticeship Exam Preparation

18 hours lecture
Grading: pass/no pass

This course is designed to assist the student in acquiring confidence and competency in the principles of test-taking for jobs in the construction industry. Practice employment tests, hands-on preparation for apprenticeship, civil service and other industry entrance examinations and job interviews will be covered.

CONST 210 **4.0 units**

Construction Technology Lab

36 hours lecture, 108 hours laboratory
Grading: letter grade

This course is designed to provide the student with hands-on learning experience of the fundamentals of the building and construction trades. The class will focus on safety while engaged in the use of proper tools and machinery to develop skills in: Carpentry, HVAC, Concrete, Plumbing, Sheet Metal, Electrical, Architecture, and Green construction.

CONST 298C**4.0 units****Construction Technology Lab**36 hours lecture, 108 hours laboratory
Grading: letter grade

This course is designed to provide the student with hands-on learning in the fundamentals of the building and construction trades. The class will focus on safety, the use of proper tools and machinery to develop skills in: Carpentry, HVAC, Concrete, Plumbing, Sheet Metal, Electrical, Architecture, and Green construction.

CONST 298D**3.0 units****Workplace Competency Skills**54 hours lecture
Grading: letter grade

This is a course to prepare students with the necessary employment skills for a career in the construction industry. Topics covered will include core soft skills, including how to communicate effectively, become a team player, resolve problems and conflicts, and succeed in a diverse and changing workforce. Students will learn vital workplace skills through designed exercises, as well as how employers evaluate these skills in their employees. Employment tests, and job interviews will be covered.

CONST 298F**1.0 unit****Apprenticeship Exam Preparation**18 hours lecture
Grading: pass/no pass

This course is designed to assist the student in acquiring confidence and competency in the principles of test-taking for jobs in the construction industry. Practice employment tests, hands-on preparation for apprenticeship, civil service and other industry entrance examinations and job interviews will be covered.

CONST 298G**3.0 units****Blueprint Reading for Construction Trade**54 hours lecture
Grading: letter grade or pass/no pass

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.

COUNSELING/GUIDANCE**(COUNS)****COUNS 1****1.0 unit****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. Students are required to complete 3 hours of supplemental learning activities through a Success Center. Transferable to UC or CSU; see counselor for limitations

COUNS 2**3.0 units****Making a Difference With Mentoring**54 hours lecture
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**3.0 units****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 **1.0 unit**

Career Exploration

18 hours lecture
Grading: letter grade or pass/no pass

This course is designed for students who are undecided about their career and/or educational goals. It provides an introduction to a career decision making model including personal assessment, self-understanding, career and labor market research, integration of information and goal setting. The course emphasizes one's self-description as it impacts career choices.

Transferable to CSU

COUNS 49 **2.0 units**

College Study Techniques

36 hours lecture
Grading: letter grade or pass/no pass

This course is designed to teach students the important strategies for academic success and how to be confident college students. Course content will cover specific techniques and methods on effective time management, note taking, critical thinking skills, life skills, textbook reading and test taking skills. Students will identify their own individual learning styles through self-assessment and presented learning theories. Topics will be presented as a practical and applicable approach to specific strategies for gaining academic competency and achieving self-confidence for academic success.

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 **3.0 units**

Career Planning: A Life-Long Process

54 hours lecture
Grading: pass/no pass

This course presents a reflective model of the career planning process that integrates theory and practice applicable in a variety of situations over an individual's life span. Through the study of various career planning and decision-making approaches, the course is design to explore the importance of how psycho-social, physical and affective factors impact their own cognitive processes. Using self-evaluation instruments and self-discovery processes, students develop life-long learning skills which help them focus on pathways for academic and career satisfaction.

Transferable to CSU

COUNS 800 **1.0 unit**

Employment Skills and Self Concept

18 hours lecture
Grading: pass/no pass

This is an introductory course designed to assist students in understanding personal qualities in relationship to employment skills required to succeed in the world of work. The goal is for students to enhance their potential competencies in the workplace necessary for finding employment and keeping it. Course topics include personality assessment on strengths and weaknesses, recognizing strengths and self-worth, developing job search skills, and developing a career or employment search portfolio.

COUNS 855 **0.5 unit**

Strategies for Academic Success

9 hours lecture
Grading: pass/no pass

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 **0.5 unit**

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.

CREATIVE ARTS

(CART)

CART 41

3.0 units

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).

Transferable to UC or CSU; see counselor for limitations

CULINARY ARTS

(CULAR)

CULAR 20

3.0 units

App. Food Serv. Sanit in Hotel/Rstr. Mgmt.

54 hours lecture

Grading: 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.

Transferable to CSU

CULAR 200

1.0 unit

Introduction to Chocolate

9 hours lecture, 27 hours laboratory

Grading: letter grade or pass/no pass

This course covers the history and production of chocolate, the techniques of baking with chocolate, and the production of chocolate desserts. It introduces fundamental principles of chocolate production, candies, decoration, tempering, processing and storage, molding of hollow forms, and pouring of flat surfaces.

CULAR 202

5.5 units

Intro to Culinary Skills & Principles

45 hours lecture, 180 hours laboratory

Prerequisite: CULAR 20 and TB Clearance

Grading: letter grade

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. Students will also be required to attend 5 hours of Culinary Math Supplemental Learning Assistance in the LAC Multidisciplinary Success Center, L212.

CULAR 211

5.5 units

Intermed. Culinary Skills & Principles

45 hours lecture, 180 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).

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.

CULAR 212

5.5 units

Classical Cuisine

45 hours lecture, 180 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A) and (CULAR 211 or CULAR 213B).

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.

CULAR 215

1.5 units

Buffets and Catering

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 OR CULAR 213A) and (CULAR 211 or CULAR 213B).

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.

CULAR 216

3.0 units

World Cuisines: American Regional

36 hours lecture, 72 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).

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.

CULAR 217**3.0 units****Vegetarian & Specialty Cuisine**

36 hours lecture, 72 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).

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.

CULAR 218**3.0 units****World Cuisines: Asian**

36 hours lecture, 72 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).

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.

CULAR 219**3.0 units****World Cuisines: Mediterranean**

36 hours lecture, 72 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).

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.

CULAR 222A**4.0 units****Advanced Restaurant Operations**

72 hours lecture

Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A) and (CULAR 211 or CULAR 213B) and (CULAR 218 and CULAR 219).

Corequisite: CULAR 222B

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.

CULAR 222B**4.0 units****Advanced Restaurant Practicum**

216 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A) and (CULAR 211 or CULAR 213B) and (CULAR 218 and CULAR 219).

Corequisite: CULAR 222A

Grading: letter grade

This capstone course is designed for real-time hands-on experience in a full service restaurant operation. 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.

CULAR 225**2.0 units****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.

CULAR 230**3.0 units****Baking & Pastry Skills for CUL Students**

36 hours lecture, 72 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).

Grading: letter grade

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.

CULAR 241**5.0 units****Intro to Baking & Pastry Skills/Princ**

36 hours lecture, 162 hours laboratory

Prerequisite: CULAR 20 and TB Clearance

Grading: letter grade

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 dough, cookies, quick breads, sweet dough, laminated dough, batters, and creams.

CULAR 242**5.0 units****Intermed. Baking and Pastry Skills/Principles**

36 hours lecture, 162 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).

Grading: letter grade

This course provides a continued study of the principles and techniques of baking and pastry. It covers the different mixing, baking, icing, and decorating technique for a variety of cakes, tarts, and desserts. These include mousses, chocolate, ice cream, cooked creams, buttercreams, meringues, ganaches, génoise, sponges, and jocondes.

CULAR 243A**4.0 units****Advanced Bakery Operations**

72 hours lecture

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204) and (CULAR 242 or CULAR 205) and (CULAR 206 or CULAR 246) and CULAR 258 and CULAR 259.

Corequisite: CULAR 243B

Grading: letter grade

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, savorys, pastries, pies, cakes, tarts, celebration, and holiday desserts.

CULAR 243B**4.0 units****Advanced Bakery Practicum**

216 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204) and (CULAR 242 or CULAR 205) and (CULAR 206 or CULAR 246) and CULAR 258 and CULAR 259.

Corequisite: CULAR 243A

Grading: letter grade

This capstone course focuses on bakery and pastry production for a professional bakery/café outlet. It immerses the student in hands-on practice of quantity production of baking and pastry products including a variety of breads, baked goods, savorys, pastries, pies, cakes, tarts, celebration, and holiday desserts.

CULAR 246**3.0 units****Specialty Cakes & French Pastries**

36 hours lecture, 72 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204) and (CULAR 242 or CULAR 205).

Grading: letter grade

This course expands on basic pastry skills to produce a variety of intricate cakes, 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, different assembly and decorating techniques.

CULAR 247**3.0 units****Cake Decorating**

36 hours lecture, 72 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204) and (CULAR 242 or CULAR 205).

Grading: letter grade

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 gum paste flowers.

CULAR 250**1.5 units****Culinary Skills for Baking Students**

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).

Grading: 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.

CULAR 252**1.5 units****Frozen Desserts**

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and CULAR 241 or CULAR 204

Grading: letter grade

This course introduces the student to the concepts of frozen desserts. It covers the principles and techniques involved in making and processing ice cream, gelato, sorbet, granitas, frozen soufflés, parfaits, and bombes.

CULAR 253**1.5 units****Chocolate Confections, Deco & Showpieces**

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).

Grading: letter grade

This course explores the hands-on techniques of working with chocolate. It covers chocolate tempering, the creation of a variety of candy confections including hand-shaped, piped and cut ganaches, nut-centered, and crystalline sugar. It also covers chocolate decoration, coloration, painting, molding, modeling, piping, and the assembly of edible chocolate showpieces.

CULAR 254**1.5 units****Sugar Confections, Deco & Showpieces**

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).

Grading: letter grade

This hands-on course provides a study of sugar-based confections, candies, decorations, and edible showpieces. It covers the creation of a variety of candy confections including caramel candies, Pâte de fruit, and toffee. It also covers pastillage, cast, blown, and pulled sugar, and the assembly of edible sugar showpieces.

CULAR 255**1.5 units****Plated Desserts**

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204) and (CULAR 242 or CULAR 205).

Grading: letter grade

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.

CULAR 256**1.5 units****Holiday Desserts**

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204)

Grading: letter grade

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.

CULAR 258**1.5 units****Artisan Breads**

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204)

Grading: letter grade

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.

CULAR 259**1.5 units****Viennese Pastries**

18 hours lecture, 36 hours laboratory

Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).

Grading: letter grade

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.

CULAR 271AD**2.0 units****Work Experience: Food Services**

18 hours lecture, 74 hours laboratory

Corequisite: Concurrent enrollment in at least one additional CULAR course.

Grading: letter grade

This course is required for students who plan to earn a career certificate in Culinary Arts or Baking & Pastry Arts. It consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job in the food services industry. It also involves vocational learning experiences through employment/Vocational Cooperative Work Experience directly related to occupational goal or career of interest to the student in the food services industry.

DANCE**(DANCE)****DANCE 1****3.0 units****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**2.0 units****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 UC or CSU; see counselor for limitations

DANCE 3**2.0 units****Musical Theatre Dance**

27 hours lecture, 27 hours laboratory

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 46

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**2.0 units****Tap Dance 1**

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**2.0 units****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**2.0 units****Stretch and Relaxation**

27 hours lecture, 27 hours laboratory

Grading: letter grade or pass/no pass

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**2.0 units****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**2.0 units****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**2.0 units****Turns**

27 hours lecture, 27 hours laboratory

Prerequisite: DANCE 26 or DANCE 20 or DANCE

14 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**2.0 units****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 way to build skill, kinesthetic awareness, physical strength, and artistry. Transferable to UC or CSU; see counselor for limitations

DANCE 15**2.0 units****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****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 UC or CSU; see counselor for limitations

DANCE 17**2.0 units****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 expression, creating composition studies, and a comparison on modern styles and choreographers. Transferable to UC or CSU; see counselor for limitations

DANCE 18A**2.0 units****Folk and Ethnic Dance-African**

27 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

DANCE 18B**2.0 units****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 19**3.0 units****Hip Hop Dance History**

54 hours lecture
 Grading: letter grade or pass/no pass

This course is a comprehensive survey of Hip-hop dance history. The content of this course will cover the contributions and perspectives of men, women and members of various ethnic or cultural groups in street dance styles known as Hip-Hop from the 20th and 21st centuries.

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**2.0 units****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**2.0 units****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, syncopation, and variation in tempo.
Transferable to CSU

DANCE 28 **2.0 units**

Ballet 3

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 UC or CSU; see counselor for limitations

DANCE 31 **2.0 units**

Choreography I

27 hours lecture, 27 hours laboratory
Prerequisite: One semester of DANCE 20, DANCE 10, DANCE 14 or Audition.
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

DANCE 32 **2.0 units**

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 10, DANCE 20 or DANCE 14 or Audition.
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 41/1 **0.5 unit**

Dance Performance

36 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 41/2**1.0 unit****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**2.0 units****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 41AD**2.5 units****Dance Performance**

144 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 or 3 or 5 or 6 or 8 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18A or 18B or 20 or 21 or 24 or 26 or 28 or 29 or 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**2.0 units****Ballroom/Social Dance**

27 hours lecture, 27 hours laboratory

Grading: letter grade or pass/no pass

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

DANCE 60**2.0 units****Special Projects in Dance**

27 hours lecture, 27 hours laboratory

Grading: letter grade or pass/no pass

Formerly DANCE 60AD. This course permits lower division students with a generalized background in dance to explore in-depth a specific aspect of dance in both theory and execution.

Transferable to UC or CSU; see counselor for limitations

DANCE 98AD**1.5 units****Exp Dance Ensemble Production**

18 hours lecture, 36 hours laboratory

Corequisite: DANCE 3AD or DANCE 5AB or DANCE 6AB or DANCE 10AB or DANCE 11AB or DANCE 13AD or DANCE 14AB or DANCE 17AB or DANCE 18AB or DANCE 20AB or DANCE 21AB or DANCE 60AD.

Grading: letter grade

This course will focus on the creative and production aspects of running a performance ensemble for the purpose of community outreach and performance. Students will be given a multitude of performance opportunities and logistical dance company building experiences in the development of knowledge and skills in the management of a dance company. Transferable to CSU

DIAGNOSTIC MEDICAL IMAGING**(DMI)****DMI 10****3.0 units****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

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 x-ray 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 Procedures**

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 .R.. (Certified Radiologic Technologist)

Grading: letter grade

The purpose of this course is to prepare the students for the state and national licensure/certification in this discipline. Students will analyze their strengths and weaknesses, and formulate strategies to ensure successfully passing the State and National board examinations.

Transferable to CSU

DMI 15**3.0 units****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**3.0 units****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**2.0 units****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**3.0 units****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**3.0 units****Positioning for General Diagnostic Rad**

36 hours lecture, 54 hours laboratory

Prerequisite: DMI 20

Recommended Preparation: DMI 11

Grading: letter grade

This course is the study of positioning for general and specialized radiologic exams of the skeletal system and adjacent organ systems. The student will develop skill in positioning the patient, film, and x-ray tube, and select appropriate techniques to produce diagnostic quality radiographic images.

Transferable to CSU

<p>DMI 31</p> <p>Positioning for Cranial Radiography 36 hours lecture, 54 hours laboratory Prerequisite: DMI 30 Grading: letter grade</p> <p>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</p>	<p>3.0 units</p>	<p>DMI 40D</p> <p>Clinical Radiology 18 hours lecture, 558 hours laboratory Prerequisite: DMI 40C Grading: letter grade</p> <p>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</p>	<p>11.0 units</p>
<p>DMI 40A</p> <p>Clinical Radiology 144 hours laboratory Prerequisite: DMI 10 and DMI 20 and health evaluation. Grading: letter grade</p> <p>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</p>	<p>2.5 units</p>	<p>DMI 40E</p> <p>Clinical Radiology 18 hours lecture, 558 hours laboratory Prerequisite: DMI 40D Grading: letter grade</p> <p>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</p>	<p>11.0 units</p>
<p>DMI 40B</p> <p>Clinical Radiology 18 hours lecture, 414 hours laboratory Prerequisite: DMI 40A Grading: letter grade</p> <p>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</p>	<p>8.5 units</p>	<p>DMI 60</p> <p>Radiologic Pathology 54 hours lecture Prerequisite: ANAT 41 and DMI 11 Grading: letter grade</p> <p>This course is an introduction to the study of disease as it relates to radiologic technology. It includes the causes, signs, symptoms and radiographic demonstration of common human diseases. The course acquaints the student with various pathologic conditions and their impact on the radiographic process. Transferable to CSU</p>	<p>3.0 units</p>
<p>DMI 40C</p> <p>Clinical Radiology 18 hours lecture, 270 hours laboratory Prerequisite: DMI 40B Grading: letter grade</p> <p>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</p>	<p>6.0 units</p>	<p>DMI 61</p> <p>Fluoroscopy 36 hours lecture, 18 hours laboratory Prerequisite: DMI 40D or Equivalent Corequisite: DMI 14 Grading: letter grade</p> <p>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</p>	<p>2.0 units</p>

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**3.0 units****Physical Principles of MRI**

54 hours lecture

Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.

Recommended Preparation: DMI 14 and DMI 40E

Grading: letter grade

This course provides the student with a comprehensive overview of Magnetic Resonance Imaging (MRI). Included are image acquisition; MRI equipment, terminology, and instrumentation; tissue characteristics; basic patient and personnel safety; patient assessment and preparation; imaging parameters, and quality assurance. The course is designed to allow practicing technologists the opportunity to acquire the necessary skills and knowledge to qualify for national licensure as MRI technologists.

DMI 402**3.0 units****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**3.0 units****Cross-Sectional Anatomy**

54 hours lecture

Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.

Recommended Preparation: ANAT 41

Grading: letter grade

This is a study of human anatomy as seen in axial, sagittal, and coronal planes as would be shown on CT or MRI examinations. Bony, muscular, vascular, soft tissues, and organs of the following anatomical regions are studied: central nervous system, head, neck, musculoskeletal, cardiovascular, thorax, abdomen, and pelvis.

DMI 404**3.0 units****MRI/CT Pathology**

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**2.5 units****MRI Clinical Practicum**

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.

DMI 405B**2.5 units****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.

Recommended Preparation: DMI 14 and DMI 40E

Grading: letter grade

This course provides the student with a comprehensive understanding of the physical principles and instrumentation involved in computed tomography (CT). Included are: physics topics, CT systems and operation data acquisition

and display, and radiation protection practices. The course is designed to allow practicing technologists the opportunity to acquire the necessary skills and knowledge to qualify for national licensure as CT technologists.

DMI 407

3.0 units

Computerized Tomography Procedures

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.
Transferable to CSU

DIESEL MECHANICS

(DIESEL)

DIESEL 281

10.0 units

Detroit Diesel Engines

90 hours lecture, 270 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to Detroit Diesel Engines. It covers the safety procedures, disassembly, problem evaluation, repair procedures, reassembly, engine testing, troubleshooting and tuning of the Detroit diesel engine. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course content.

DIES 282

10.0 units

Cummins Four Cycle Engine

90 hours lecture, 270 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to Cummins Four-Cycle Engines. It covers safety procedures, disassembly, problem evaluation,

repair procedures, reassembly, engine testing, troubleshooting and tuning of the engine. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

DIESEL 283

10.0 units

Powered Systems

90 hours lecture, 270 hours laboratory

Prerequisite: DIESEL 281 or 282

Grading: letter grade or pass/no pass

This course is an introduction to diesel powered systems required to support engines in a variety of applications. It covers the safety procedures, disassembly, component testing, troubleshooting and reassemble to factory standards.

DIESEL 284

10.0 units

Highway Transport

90 hours lecture, 270 hours laboratory

Recommended Preparation: DIESEL 282

Grading: letter grade or pass/no pass

This course covers safety, troubleshooting, and repair of all components that are used on heavy diesel trucks. Maintenance of the total truck and service operations will be highlighted.

DIESEL 289

10.0 units

Caterpillar 3406 and 3116 Engine

90 hours lecture, 270 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to Caterpillar Four-Cycle Engines. It covers safety procedures, disassembly, problem evaluation, repair procedures, reassembly, engine testing, troubleshooting and tuning of the engine. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

DIESEL 290

10.0 units

Transmissions and Final Drive

90 hours lecture, 270 hours laboratory

Grading: letter grade or pass/no pass

This course covers steering, clutches, brakes, transmissions and final drive units for Caterpillar heavy equipment intended for off-highway use.

DIESEL 291

10.0 units

Hydraulics

90 hours lecture, 270 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to Caterpillar hydraulics systems. It covers safety procedures, troubleshooting of hydraulic systems, problem evaluation and repair procedures on hydraulic pumps, valves and hydraulic equipment. Students

will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course's content.

DIESL 292 **10.0 units**

Chassis & Electrical

90 hours lecture, 270 hours laboratory
Grading: letter grade or pass/no pass

This course is an introduction to Caterpillar off-highway and on-highway chassis and related components to support vehicles in a variety of powered system applications. It will include testing, analysis and repair of engines, vehicles and their components.

DIESL 293 **4.0 units**

General Engines

54 hours lecture, 54 hours laboratory
Grading: letter grade

This course is an introduction to the operation and maintenance of various types of diesel and spark ignited engines. It will include fuel injection and fuel pump systems, governors, marine, special tools and testing equipment, and safety practices.

DIESL 391A **3.0 units**

Hydraulics

36 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course is an introduction to heavy equipment hydraulic systems required to support a variety of heavy diesel applications. Topics will include shop safety practices, industry terminology and testing, troubleshooting, analysis and repair of hydraulic components.

DIESL 391B **5.0 units**

Heavy Equipment Electrical Systems

54 hours lecture, 108 hours laboratory
Grading: letter grade or pass/no pass

This course is an introduction to Heavy equipment electrical systems required to support a variety of heavy diesel applications. Course topics will include the testing, troubleshooting, analysis and repair of electrical components required to support an array of diesel powered systems.

DIESL 492 **3.0 units**

Air and Hydraulic Brakes

36 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course is an introduction to the theory and fundamentals of air and hydraulic brake systems.

DIGITAL MEDIA ARTS

(DMA)

DMA 201 **3.0 units**

Intro to Digital Media Arts

36 hours lecture, 72 hours laboratory
Grading: letter grade or pass/no pass

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.

**DRAFTING & MECHANICAL
DESIGN**

(DRAFT)

DRAFT 51A **3.0 units**

Industrial Drafting I

36 hours lecture, 72 hours laboratory
Recommended Preparation: DRAFT 201
Grading: letter grade

This course will cover geometric tolerance dimensioning, orthographic projection, pictorial views, auxiliary views, sections, and intersections. Attention to machine and material shop processes will be practiced on all drawings. Basic freehand lettering, sketching and drawing instruments will be reviewed. Emphasis will be given to producing individualized and teamwork detail and assembly drawings. Transferable to CSU

DRAFT 51B **3.0 units**

Industrial Drafting II

36 hours lecture, 72 hours laboratory
Prerequisite: DRAFT 51A
Grading: letter grade

This course will cover dimension information on drawings using ANSI 14.5 geometric tolerance standards. Discussion and application of tolerance standards will be followed on all finished projects. Engineering designs will include welding drawings, screw threads, fasteners, keys, key ways, springs, gears, splines, cams and bearings. Advanced orthographic detail and assembly drawings will be developed and produced by the individual student or in student teams. Some projects will include development of 3D models. Transferable to CSU

DRAFT 52A**3.0 units****Advanced Industrial Drafting**

36 hours lecture, 72 hours laboratory

Prerequisite: DRAFT 51B

Grading: letter grade

This course includes discussion, development, and implementation of the following types of drawings: welding, piping, electrical, structural, tools and dies, jig and fixture design. Applied math will be used in creating charts, graphs, and diagrams that require information for materials and heat treatment. Product design fundamentals will be identified, analyzed, refined, and implemented on all drawings.

Transferable to CSU

DRAFT 52B**3.0 units****Descriptive Geometry**

36 hours lecture, 72 hours laboratory

Prerequisite: DRAFT 52A

Grading: letter grade

This course will include information on the fundamentals of descriptive geometry used on points, edges, and surfaces. Drawings will use straight line and plane relationships in creating flat surfaces and curved lines and planes to generate surfaced intersections and developments. Vector geometry and graphic solutions are addressed.

Transferable to CSU

DRAFT 60**3.0 units****Geometric Dimensioning and Tolerancing**

54 hours lecture

Recommended Preparation: DRAFT 201 or DRAFT 51A

Grading: letter grade

Geometric Dimensioning and Tolerances (GD&T) is a course designed for Manufacturing Technology students, Drafting Technology students, and professional upgrade training. The course covers a review of conventional dimensioning (non geometric tolerancing), clearance fits, tolerancing fundamentals, maximum material condition (MMC), least material condition (LMC), metric and inch dimensioning. GD&T conventions covered are: dimensioning and geometric tolerancing symbols, datums, material condition symbols, tolerances of form and profile, tolerances of orientation and runout, and location tolerances.

Transferable to CSU

DRAFT 201**4.0 units****Introduction to Drafting**

54 hours lecture, 54 hours laboratory

Recommended Preparation: COMIS 1 or knowledge of computers and MATH 120 or basic geometry.

Grading: letter grade or pass/no pass

This is an entry-level course offered as a preparation for architectural design, mechanical drafting and interior design students with no previous graphic training. This course provides

instruction in the fundamental principles and techniques of traditional drafting and computer aided drafting (CAD), including drafting equipment (manual and CAD), sketching, lettering, line type and line weight, orthographic projection, isometrics and dimensioning. The CAD training will utilize the latest software technology, such as AutoCAD, in the Windows environment and will introduce the following CAD fundamentals: user interface, basic draw and edit commands, template drawings, dimensioning, electronic drawing sheets, file management, printing and plotting and the Windows operating system for CAD users. Exercises will cover drawings for both mechanical and architectural applications.

DRAFT 202**4.0 units****AutoCAD I, Fundamentals**

54 hours lecture, 54 hours laboratory

Recommended Preparation: COMIS 1 or knowledge of computers and MATH 120 or basic geometry.

Grading: letter grade or pass/no pass

Formerly DRAFT 202AD. This course is an intermediate-level course aimed at individuals with a drafting background employed in engineering, architecture, interior design and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD). CAD training will utilize the latest software technology, such as AutoCAD, in the Windows environment. This course continues to introduce CAD fundamentals as well as intermediate drawing techniques: user interface, basic draw and edit commands, template drawings, dimensioning, electronic drawing sheets, file management, printing and plotting and the Windows operating system for CAD users. Exercises cover drawings for both mechanical and architectural applications.

DRAFT 203**4.0 units****AutoCAD II, Advanced Concepts**

54 hours lecture, 54 hours laboratory

Prerequisite: DRAFT 201 or DRAFT 202

Grading: letter grade or pass/no pass

Formerly 203AD. This course is an intermediate level course aimed at individuals with a drafting background employed in engineering, architecture, interior design and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD). Topics cover advanced 2D concepts and intermediate level 3D modeling using AutoCAD Software: user interface, advanced draw, edit, and query commands, template drawings, dimension styles, model space/paper space electronic drawing sheets, external reference styles, file management and the Web, plotting styles, blocks and attributes and 3D modeling techniques.

DRAFT 204**4.0 units****3D Visualization/Animation**

54 hours lecture, 54 hours laboratory

Prerequisite: DRAFT 203AD

Grading: letter grade or pass/no pass

This course is an advanced-level course primarily aimed at individuals with a drafting background employed in

engineering, architecture, interior design and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD), Visualization, Rendering and Animation. Successful completion of the three modules in Draft204 culminates in a Certificate of Achievement – 3D visualization, Rendering and Animation. CAD training will utilize AutoCAD and one or more of the following – Architectural Desktop, Sketchup, REVIT Architecture and 3D Studio MAX Software. Digital non-linear editing is introduced. Draft204 is the final class in a series of three leading to a Certificate of Completion – CAD Professional – Architectural or Mechanical Applications. Advanced 3D modeling and rendering concepts are explored: user interface, coordinate system, surface and solids modeling commands, rendering and animation. Projects cover both mechanical and architectural applications.

DRAFT 210 **1.5 units**

3D Printing Fundamentals I (FDM)

18 hours lecture, 36 hours laboratory
Recommended Preparation: DRAFT 201 or DRAFT 51A 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: DRAFT 201 or DRAFT 51A 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 220

3.0 units

Introduction to CATIA

36 hours lecture, 72 hours laboratory
Recommended Preparation: DRAFT 201 or DRAFT 51A 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.

DRAFT 221 **3.0 units**

Intermediate CATIA

36 hours lecture, 72 hours laboratory
Recommended Preparation: DRAFT 220 or DRAFT 298D or TEC 60
Grading: letter grade or pass/no pass

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 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.

DRAFT 222 **3.0 units**

Advanced CATIA

36 hours lecture, 72 hours laboratory
Recommended Preparation: DRAFT 221 or DRAFT 298E or TEC 60
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****Introduction to SolidWorks Level 1**

36 hours lecture, 72 hours laboratory

Recommended Preparation: DRAFT 201 or DRAFT 51A 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 or DRAFT 298F or TEC 60

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 or DRAFT 298G or TEC 60

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.

DRAFT 298D**3.0 units****Exp: Introduction to CATIA**

36 hours lecture, 72 hours laboratory

Recommended Preparation: DRAFT 201 or DRAFT 51A or Industry Drafting experience or High School Drafting classes.

Grading: letter grade or pass/no pass

This class is the first in a series 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 drawings based on 2D profiles (sketches) in a Windows environment. The course will prepare students to take an industry certification tests, CATIA PART DESIGN SPECIALIST and CATIA Assembly Design Specialist, created by Dessault Systems.

DRAFT 298E**3.0 units****Exp: Intermediate CATIA**

36 hours lecture, 72 hours laboratory

Recommended Preparation: DRAFT 298D or TEC 60

Grading: letter grade or pass/no pass

This course is the second class in a series 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 concepts and applying them in the creation of industry standard detail parts drawings and assembly/subassembly drawings in a Windows environment. Sheet metal design and working drawings are covered in this class. The course will prepare students to take industry certification tests, CATIA PART DESIGN Expert and CATIA Assembly Design Expert, created by Dessault Systems.

DRAFT 298F**3.0 units****Exp: Introduction to Solidworks Level 1**

36 hours lecture, 72 hours laboratory

Recommended Preparation: DRAFT 201 or DRAFT 51A or Industry Drafting experience or High School Drafting classes.

Grading: letter grade or pass/no pass

This class is the first 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 the fundamental operations of SolidWorks software concentrating on the user interface and the creation of industry standard detail parts and assemblies drawings based on 2D profiles (sketches) in a Windows environment. The course will prepare students to take an industry certification test, Certified SolidWorks Associate (CSWA), created by Dessault Systems.

DRAFT 298G**3.0 units****Exp: Intermediate Solidworks Level 2**

36 hours lecture, 72 hours laboratory

Recommended Preparation: DRAFT 298F or TEC 60.

Grading: letter grade or pass/no pass

This class 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 298I**3.0 units****Exp: Advanced Solidworks Level 3**

36 hours lecture, 72 hours laboratory

Recommended Preparation: DRAFT 298G or TEC 60

Grading: letter grade or pass/no pass

This class 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****3.0 units****Macro 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 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

ECON 1H**3.0 units****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

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**3.0 units****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**3.0 units****Honors Micro Economics 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**3.0 units****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 non-economics and non-business majors a foundation in economics.

Transferable to CSU

ECON 4**3.0 units****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 economics, as a social science, assisting in understanding causes, effects, and possible policies for current problems. The instructional emphasis is on the relationship of basic tools of economic analysis and their application to current economic problems.

Transferable to UC or CSU; see counselor for limitations

ECON 5**3.0 units****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

EDUCATION**(EDU)****EDUC 20****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 CSU

ELECTRICITY**(ELECT)****ELECT 41****2.0 units****Technical Applications of Minicomputers**

18 hours lecture, 54 hours laboratory

Grading: letter grade

The course will consist of an introduction to the various software programs used in the electrical program. Students will develop all the components of a complete engineering technical report. The course will utilize computer applications to research and complete technical reports and documentation. Included are AutoCAD, Word, Excel, Visio, Constructor, and web based communication and information research.

Transferable to CSU

ELECT 200A**6.5 units****First Semester Industrial Electricity**

81 hours lecture, 108 hours laboratory

Prerequisite: ELECT 202

Grading: letter grade

This course is an introduction to direct current electrical theory. Covered are industry practices, application, study of nomenclature and components. Also covered are formulas used in electrical theory, information regarding proper use and selection of hand tools, and laboratory practices as performed in the electrical maintenance and construction industry.

ELECT 200B**8.0 units****Second Semester Industrial Electricity**

108 hours lecture, 108 hours laboratory
 Prerequisite: ELECT 200A or ELECT 204
 Grading: letter grade

This course covers operational theory and practices associated with motors and generators. Included are theory and lab work associated with motors, generators, motor controls and circuit diagrams, including wiring practices in the electrical maintenance and construction industry.

ELECT 200C**8.0 units****Third Semester Industrial Electricity**

108 hours lecture, 108 hours laboratory
 Prerequisite: ELECT 225 and ELECT 209 or ELECT 200B
 Grading: letter grade

This course is an introduction to Alternating Current theory, practices and applications with studies of nomenclature and components. It is a course that requires previous Direct Current electrical coursework and math.

ELECT 200D**8.0 units****Fourth Semester Industrial Electricity**

108 hours lecture, 108 hours laboratory
 Prerequisite: ELECT 200C or ELECT 212
 Grading: letter grade

This is an advanced course that requires knowledge of AC circuitry, systems, and components. This course covers the complete electrical design of a commercial/industrial facility inclusive of general electrical, AC motors, lighting, transformers and electrical load calculations. All design work is completed to applicable codes.

ELECT 202**3.0 units****Electrical Mathematics**

54 hours lecture
 Grading: letter grade

A study of mathematics used in the electrical and construction trades. Topics in arithmetic, fractions, decimals, percents, graphing, measurement and introduction to algebra are covered. This course is the same as CONST 201A.

ELECT 204**3.0 units****First Semester Fundamentals of DC Electricity**

54 hours lecture
 Prerequisite: ELECT 202
 Corequisite: ELECT 210A
 Grading: 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.

ELECT 209**3.0 units****Second Sem. Fund of Motors/Generators**

54 hours lecture
 Prerequisite: ELECT 200A or (ELECT 202 and ELECT 204)
 Grading: letter grade

This course covers the operational theory and practices associated with motors and generators. This includes theory associated with motors, generators, motor controls, circuit diagrams, and wiring practices in the electrical maintenance and construction industry.

ELECT 210A**1.0 unit****Laboratory Practices 1**

54 hours laboratory
 Corequisite: ELECT 204
 Grading: letter grade

This course covers laboratory work associated with the fundamentals of DC electricity, electromagnetism, series, parallel and combination circuits, wiring practice and hand tools.

ELECT 210B**1.0 unit****Laboratory Practices 2**

54 hours laboratory
 Prerequisite: ELECT 210A or ELECT 200A
 Corequisite: ELECT 209
 Grading: letter grade

This course covers lab work associated with the fundamentals of DC electricity, DC principles and practices, as well as fundamentals of DC motors and generators and motor controls. Motors and generators are characterized and connected with various hard wired motor control circuits.

ELECT 210C**1.0 unit****Laboratory Practices 3**

54 hours laboratory
 Prerequisite: ELECT 210B or ELECT 200B
 Corequisite: ELECT 212
 Grading: letter grade

This course includes lab work associated with the fundamentals of Alternating Current electricity. Alternating Current principles, practices and safe wiring practices with hand tools and instrumentation are included.

ELECT 210D **1.0 unit**

Laboratory Practices 4

54 hours laboratory
Prerequisite: ELECT 210C or ELECT 200C
Grading: letter grade

This course is designed to provide lab work activities that are associated with electrical measuring instruments, motors, transformers and electrical design.

ELECT 212 **3.0 units**

Third Semester Fund of AC Electricity

54 hours lecture
Prerequisite: ELECT 225 and ELECT 209 or ELECT 200B
Grading: letter grade

This course is an introduction to alternating current theory, practices and applications with studies of nomenclature and components. It is an advanced course that requires previous direct current electrical coursework and math.

ELECT 214 **3.0 units**

Fourth Semester AC Principles & Pract

54 hours lecture
Prerequisite: ELECT 212 or ELECT 200C
Recommended Preparation: ELECT 212
Grading: letter grade

This is an advanced course that requires knowledge of AC circuitry, systems, and components. This course covers the complete electrical design of a commercial/industrial facility inclusive of general electrical, AC motors, lighting, transformers and electrical load calculations. All design work is completed to applicable codes.

ELECT 225 **4.0 units**

Algebra and Trigonometry for Technicians

72 hours lecture
Prerequisite: MATH 805 or MATH 815 or ELECT 202 or Qualification through the LBCC assessment process for Math.
Grading: letter grade

This course will present basic algebra and trigonometry and their application to the solution of practical problems in technical (mechanical, electrical, construction) fields. This course is not open for credit to students registered in or with credit in MATH 225, 220, 230, 110 and 150. Formerly MATH 225.

ELECT 226 **3.0 units**

Solid State Fundamentals for Electrician

45 hours lecture, 27 hours laboratory
Prerequisite: ELECT 200B or ELECT 209
Grading: letter grade

This course covers electronic theory and practice as applied in industrial applications. Topics include component

identification, schematic diagrams, circuit testing and troubleshooting industrial equipment. Safety issues involving high voltage industrial electronics are covered.

ELECT 227 **3.0 units**

Variable Speed Drive Fundamentals

45 hours lecture, 27 hours laboratory
Prerequisite: ELECT 204 or ELECT 200A
Grading: letter grade

This course covers the theory, circuit designs and application of direct current and alternating current variable speed drives. Topics include applications, testing and troubleshooting.

ELECT 230A **3.0 units**

Robotics Technology - Design

45 hours lecture, 27 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 230B **3.0 units**

Robotics Technology - Integration

45 hours lecture, 27 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 230C **3.0 units**

Robotics Technology - Applications

45 hours lecture, 27 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 240**3.0 units****Introduction to National Electrical Code**

54 hours lecture

Prerequisite: ELECT 200A or ELECT 204

Grading: letter grade

This course is an introduction to National Electrical Code requirements for residential wiring. 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 245 or ELECT 250

Grading: letter grade

This course covers National Electrical Code requirements for grounding. Grounding system components, principles of operation, design and fault current calculations are included.

ELECT 245**3.0 units****Electrical Code-Commercial**

54 hours lecture

Prerequisite: ELECT 240 and (ELECT 209 or ELECT 200B)

Grading: letter grade

This course covers National Electrical Code requirements for commercial, office and light industrial wiring. The electrical layout and design of commercial buildings, feeder circuit calculations, branch circuit calculations and circuit over current protection are included.

ELECT 250**3.0 units****Electrical Code-Industrial**

54 hours lecture

Prerequisite: ELECT 240 and (ELECT 209 or ELECT 200B)

Grading: letter grade

This course covers National Electrical Code requirements for industrial applications. Materials and wiring methods for heavy industrial applications, life, safety and hazardous systems are included.

ELECT 253**2.0 units****OSHA Standards for Construction Safety**

36 hours lecture

Grading: pass/no pass

This course was listed as _I 203A for academic year 2013-2014 only. This course covers OSHA policies, procedures, and standards, as well as construction safety and health principles. Topics include scope and application of the OSHA construction standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. Upon successful course completion, the student will receive an OSHA 30 Hour Construction Outreach Training Completion Card.

ELECT 261**3.0 units****Introduction to Renewable Energy**

54 hours lecture

Grading: letter grade

This course will introduce students to renewable energy sources (wind, solar, micro-hydro, geothermal et. al.) along with the advantages and disadvantages of each. Suitable use for each energy source will be discussed, as well as emerging technology, products, and programs available that allow builders and owners to take advantage of renewables.

ELECT 262**3.0 units****Solar 1-Grid-Tied Solar Photovoltaics**

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 263**3.0 units****Solar 2-Advanced Solar Photovoltaics**

45 hours lecture, 27 hours laboratory

Prerequisite: ELECT 262

Grading: letter grade

In this level 2 lecture/laboratory course students build upon skills learned in ELECT 262 to design and implement a cost-effective stand-alone photovoltaic (PV) system with battery backup. Students will also learn how to analyze data from system monitoring hardware and software, and use that data to adjust a PV system for optimal performance.

ELECT 271**3.0 units****Electrical Cost Estimating 1**

54 hours lecture

Grading: letter grade

This course will present an introduction to electrical cost estimating, including take-off and listing procedures. It is designed for students preparing to enter electrical estimating occupations or electrical contracting work.

ELECT 275**0.5 unit****Electrical Pipe Bending (A)**

5 hours lecture, 13 hours laboratory

Grading: letter grade

This course is a study of how to properly calculate, layout and bend Electrical Metallic Tubing (EMT) per Industry standards and National Electrical Code (NEC) standards.

ELECT 276**0.5 unit****Electrical Pipe Bending (B)**

5 hours lecture, 13 hours laboratory

Prerequisite: ELECT 275

Grading: letter grade

This course covers the proper methods to layout and bend rigid conduit. Methods taught include, hand bending and the use of mechanical and machine benders.

ELECT 277**3.0 units****Blueprint Reading for Electricians**

54 hours lecture

Prerequisite: ELECT 212 or ELECT 200C

Grading: letter grade

This course is designed for students to comprehend, and correctly interpret blueprints used in the electrical and related construction trades.

ELECT 280**3.0 units****Traffic Signal Systems 1**

45 hours lecture, 27 hours laboratory

Recommended Preparation: ELECT 204

Grading: letter grade

This first course in traffic signal systems includes instruction on the building and wiring of a working intersection. CalTrans and NEC Standards and requirements, copper wiring, controller, pole and signal head installation, and controller theory are covered in this hands-on course.

ELECT 283**3.0 units****Traffic Systems Communications**

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 284**3.0 units****Traffic Signal Controllers & Digital Systems**

45 hours lecture, 27 hours laboratory

Prerequisite: ELECT 204

Grading: letter grade

This is a course in digital logic and microprocessor controls as applied to Traffic Signal Systems. This hands-on course will include troubleshooting of digital traffic controllers. Course topics will include, but are not limited to, interface logic, electronics, and theory of system operation.

ELECT 400**2.0 units****Electrical Certification Exam Prep**

36 hours lecture

Grading: pass/no pass

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 435A**2.0 units****Electric Motor Control 1**

36 hours lecture, 18 hours laboratory

Prerequisite: ELECT 209 or ELECT 200B

Grading: letter grade

This course covers the theoretical and practical principles involving the control of direct and alternating current electric motors. Industry standard wiring practices and troubleshooting methods are covered. An introduction to Programmable Logic Controllers is included. Mandatory safety awareness assessment will be conducted early in the course.

ELECT 435B**2.0 units****Electric Motor Control 2**

36 hours lecture, 18 hours laboratory

Prerequisite: ELECT 435A

Grading: letter grade

This course consists of advanced theoretical and practical principles involving the control of direct and alternating current electric motors and automation systems. Topics covered include Programmable Logic Controllers, ladder logic, wiring, timing and programming. GE Fanuc PLCs and GE Proficy software are utilized.

EMERGENCY MEDICAL TECHNOLOGY (EMT)

EMT 251**3.0 units****Emergency Medical Technician**

54 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 content emphasizes identifying and correcting life-threatening conditions, identifying rescue activities and developing a systematic approach to the care of the client and the performance of rescue activities. Relevant information on traumatic injuries, medical emergencies, environmental hazards, rescue techniques and equipment will be integrated.

EMT 251L**1.5 units****Emergency Medical Technician Laboratory**

81 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.

EMT 252**1.0 unit****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.

computer drafting software as well as charts, diagrams and graphic solutions are discussed.

Transferable to UC or CSU; see counselor for limitations

ENGR 17**3.0 units****Electrical Engineering Circuits**

54 hours lecture

Prerequisite: MATH 70 and PHYS 3B

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**1.0 unit****Electrical Engineering Circuits Lab**

54 hours laboratory

Prerequisite: ENGR 17 (may be taken concurrently)

Grading: letter grade

This course provides a laboratory study of electrical circuits and instrumentation to accompany the lecture course.

Transferable to UC or CSU; see counselor for limitations

ENGR 35**3.0 units****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**1.0 unit****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

ENGINEERING**(ENGR)****ENGR 3A****3.0 units****Engineering Graphics**

36 hours lecture, 72 hours laboratory

Prerequisite: MATH 120 or one year High School Geometry.

Recommended Preparation: One semester of DRAFT 201 or high school mechanical drawing or drafting.

Grading: letter grade

This course will review the methods of graphic expression common to the various fields of engineering. It will follow engineering drafting standards and procedures through working drawings. The use computers to prepare and study engineering drawings and solving engineering space problems by orthographic methods will be emphasized.

Transferable to UC or CSU; see counselor for limitations

ENGR 3B**3.0 units****Engineering Graphics**

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

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. ++ is the primary programming language. The course also introduces MATHEMATICA and MATLAB software with applications from Engineering, Science and Mathematics. Transferable to UC or CSU; see counselor for limitations

ENGL 2H**4.0 units****Honors Introduction to Literature/Comp.**

72 hours lecture

Prerequisite: ENGL 1 or ENGL 1H and Qualification 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

ENGLISH**(ENGL)****ENGL 1****4.0 units****Reading and Composition**

72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for English or ENGL 105 or ESL 34.

Grading: letter grade

In this course, students read and analyze college-level texts in order to write researched, thesis-based essays.

Transferable to UC or CSU; see counselor for limitations

ENGL 1H**4.0 units****Honors Reading and Composition**

72 hours lecture

Prerequisite: Qualification for the Honors program. Qualification through the LBCC assessment process for English, or ENGL 105 or ESL 34.

Grading: letter grade

In this course, students read and analyze college-level texts in order to write researched, thesis-based essays. Eligibility for the Honors program is required for enrollment.

Transferable to UC or CSU; see counselor for limitations

ENGL 2**4.0 units****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 3**4.0 units****Argumentative and Critical Writing**

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 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**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

ENGL 4**4.0 units****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

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 CSU

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 **3.0 units**

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 24 **4.0 units**

College Grammar

72 hours lecture

Grading: letter grade or pass/no pass

College Grammar is a transfer-level course designed to lead students through an examination of the English language, focusing on both theory and practice in grammar, usage, and mechanics. It is recommended for students who wish to strengthen their knowledge of grammar and to improve their skill in writing and speaking in English as well as for people who need a strong knowledge of grammar, usage and mechanics for professional purposes. Transferable to CSU

ENGL 26 **3.0 units**

Creative Writing 1

54 hours lecture

Prerequisite: Eligibility for ENGL 1

Grading: 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 32 **3.0 units**

Masterpieces/Asian Literature (in English)

54 hours lecture

Prerequisite: Eligibility for ENGL 1

Grading: letter grade or pass/no pass

This course is an introduction to Asian literature (in translation), with an emphasis on major literary works of India, China and Japan. The course is designed for students with a general interest in diverse literatures and for those who seek to understand the workings of the eastern mind in its unique historical, cultural and philosophical context. Transferable to UC or CSU; see counselor for limitations

ENGL 33 **4.0 units**

Mythology

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 35 **3.0 units**

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 **3.0 units**

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 **3.0 units**

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

ENGL 38 **3.0 units**

The Bible as Lit: The Old Testament

54 hours lecture

Prerequisite: Eligibility for ENGL 1

Grading: letter grade or pass/no pass

This college-level course provides an examination and analysis of the narratives, poetry, and structure of the Old Testament, emphasizing a literary point of view. The course is designed for students interested in broadening their understanding of the literary characteristics, the cultural, and historical contexts of various books 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 college-level course provides an examination and analysis of the narratives, poetry, parables, and letters of the New Testament and Apocrypha, emphasizing a literary point of view. The course is designed for students interested in broadening their understanding of the literary characteristics and 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 **4.0 units**

American Literature I

72 hours lecture

Prerequisite: Eligibility for ENGL 1

Grading: 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 **4.0 units**

American Literature II

72 hours lecture

Prerequisite: Eligibility for ENGL 1

Grading: letter grade or pass/no pass

This course is a survey of American literature from the Civil War to the present.

Transferable to UC or CSU; see counselor for limitations

ENGL 43A **4.0 units**

Introduction to Shakespeare

72 hours lecture

Prerequisite: 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 43B **4.0 units**

Introduction to Shakespeare

72 hours lecture

Prerequisite: Eligibility for ENGL 1

Grading: 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 **4.0 units**

World Literature I

72 hours lecture

Prerequisite: Eligibility for ENGL 1

Grading: 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 **4.0 units**

Honors World Literature I

72 hours lecture

Prerequisite: Qualification for the Honors Program and Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This course offers an honors 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 **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 **4.0 units**

Honors World Literature II

72 hours lecture

Prerequisite: Qualification for the Honors 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 **4.0 units**

Survey of British Literature I

72 hours lecture

Prerequisite: Eligibility for ENGL 1

Grading: letter grade or pass/no pass

This course will focus on readings in the literature of the British Isles, with emphasis on English literature, Irish literature, and the works of other commonwealth nations, from the early medieval period to the last quarter of the eighteenth century. Coursework will emphasize the appreciation of 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 **4.0 units**

Survey of British Literature II

72 hours lecture

Prerequisite: Eligibility for ENGL 1

Grading: letter grade or pass/no pass

This course is a study of English literature from the late 18th (the time of the French Revolution) to the early 21st century. English literature is defined as literature written in English, though not by Americans and, thus, includes writers from such countries as South Africa, Ireland, Canada, and Australia, New Zealand.

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 48H

3.0 units

Honors Modern/Contemporary Literature

54 hours lecture

Prerequisite: Qualification for the Honors Program and Eligibility for ENGL 1.

Grading: letter grade or pass/no pass

This class is a study of imaginative literature written from the late 19th through the early 21st centuries. Writers chosen will represent world literature and will generally be those who have exerted a strong influence on contemporary attitudes, ideas, aesthetics, and values. The course will explore the revolutionary ways of writing and seeing that are peculiar to recent major artists.

Transferable to UC or CSU; see counselor for limitations

ENGL 49

3.0 units

Film and Literature

54 hours lecture

Prerequisite: Eligibility for ENGL 1

Grading: 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

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. As an honors course, English 49H will require more in-depth analysis of course materials and a higher standard for student work. Transferable to UC or CSU; see counselor for limitations

ENGL 50A **3.0 units**

Introduction to Poetry Writing

54 hours lecture
Prerequisite: ENGL 26
Grading: 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 50B **3.0 units**

Intermediate Poetry Writing

54 hours lecture
Prerequisite: ENGL 50A
Grading: 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 50C **3.0 units**

Advanced Poetry Writing

54 hours lecture
Prerequisite: ENGL 50B
Grading: 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 50D **3.0 units**

Writing and Publishing Poetry

54 hours lecture
Prerequisite: ENGL 50C
Grading: 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 **3.0 units**

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 51B **3.0 units**

Intermediate Fiction Writing

54 hours lecture
Prerequisite: ENGL 51A
Grading: 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 51D **3.0 units**

Writing and Publishing Fiction

54 hours lecture
Prerequisite: ENGL 51C
Grading: 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 52B**3.0 units****Intermediate Novel Writing**

54 hours lecture

Prerequisite: ENGL 52A

Grading: 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**3.0 units****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**3.0 units****Writing and Publishing The Novel**

54 hours lecture

Prerequisite: ENGL 52C

Grading: letter grade or pass/no pass

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 105**4.0 units****Fundamentals of Writing**

72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for English, or ENGL 801B.

Grading: letter grade or pass/no pass

This course focuses on expository and argumentative writing, standard written English and critical reading. The course prepares students for entrance into ENGL 1. During the semester, students are required to complete 3 hours of supplemental learning activities in a Success Center.

ENGL 600**0.0 unit****Great Works of Literature**

54 hours lecture

Grading: LBCC Non-Graded Course

This course is an introduction to literature with an emphasis on both the reading of major works of literature and on training in written expression.

ENGL 627**0.0 unit****Writing for Publication or Pleasure**

54 hours lecture

Grading: LBCC Non-Graded Course

This course gives students experience with the creative and critical processes in creative writing.

ENGL 801A**4.0 units****College English Skills I**

72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for English.

Grading: pass/no pass

In this course, students practice the basic forms of composition. The course also focuses on further developing standards of written English skills to prepare students for ENGL 801B or 105. During the semester, students are required to complete 3 hours of supplemental learning activities in a Success Center.

ENGL 801B**4.0 units****College English Skills II**

72 hours lecture

Prerequisite: ENGL 801A or Qualification through the LBCC assessment process for English, which must be completed before registration.

Grading: pass/no pass

In this course, students practice the basic forms of composition, particularly moving from the paragraph to the essay. The course also focuses on further developing standards of written English skills to prepare students for ENGL 105. During the semester, students are required to complete 3 hours of supplemental learning activities in a Success Center.

**ENGLISH,
WRITING READING CENTER
(EWRC)**

EWRC 890 **0.5 unit**

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 892 **0.5 unit**

Phonics/Reading Fundamentals

4 hours lecture, 16 hours laboratory
Grading: pass/no pass

This is an introductory course designed to teach the fundamental reading skills of phonics, word analysis, and comprehension through individualized assignments.

EWRC 893 **0.5 unit**

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 896 **0.5 unit**

Writing Adjunct

4 hours lecture, 16 hours laboratory
Corequisite: ENGL 1, ENGL 105, ENGL 801A or ENGL 801B.
Grading: pass/no pass

Formerly EWRC 896AD. This course is a study of writing strategies that supplements ENGL 1, 105 and 801A-B, offering individualized instruction in all phases of the writing process (planning, writing, revision, editing) and helps improve skills in the conventions of writing English: grammar, usage, punctuation, spelling and mechanics.

EWRC 897 **1.0 unit**

Developmental Writing

7 hours lecture, 34 hours laboratory
Prerequisite: ENGL 105, 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 **0.5 unit**

English Adjunct

4 hours lecture, 16 hours laboratory
Grading: pass/no pass

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.

ENGLISH AS A SECOND LANGUAGE

(ESL)

ESL 33X

5.0 units

College English with Computers for ESL

90 hours lecture

Prerequisite: ESL 56 or ESL 56X or Qualification through the LBCC assessment process for ESL.

Recommended Preparation: READ 882

Grading: letter grade

This course is an intensive study of reading and writing English focusing on the academic language skills needed for the AA and AS degrees. Skills taught include expository essay writing, summarizing, paraphrasing, reading comprehension, and critical analysis. Students use personal computers to complete the writing assignments. This course prepares students for ESL 34. Transferable to UC or CSU; see counselor for limitations

ESL 34X

5.0 units

College English/Computers for ESL Students

90 hours lecture

Prerequisite: ESL 33 or ESL 33X or Qualification through the LBCC assessment process for ESL.

Recommended Preparation: READ 882

Grading: letter grade

This course is an intensive study of reading and writing English focusing on the academic language skills needed for the AA and AS degrees and entrance into English 1 and English 82. Students use personal computers to complete the writing assignments. Skills taught include expository and argumentative essay writing, summarizing of academic readings and articles about current events, critical analysis of readings in literature, library and Internet research, and use and documentation of sources. Transferable to UC or CSU; see counselor for limitations

ESL 54X

5.0 units

Effective Writing with Computers for ESL

90 hours lecture

Prerequisite: One semester of 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 computers.

Transferable to CSU

ESL 56X

5.0 units

College Writing with Computers for ESL

90 hours lecture

Prerequisite: ESL 147 or ESL 54 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 computers. Transferable to CSU

ESL 146

5.0 units

Comprehensive Grammar I

90 hours lecture

Prerequisite: ESL 645 or one semester of 845 or

Qualification through the LBCC assessment process for English or ESL.

Recommended Preparation: One semester of ESL 812

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.

ESL 147

5.0 units

Comprehensive Grammar II

90 hours lecture

Recommended Preparation: One semester of ESL 814

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.

ESL 270 **2.0 units**

Intercultural Communication

108 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or
Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass

A semester length course which gives intermediate students the skills needed to communicate effectively. American culture will be learned via role-playing activities, journal writings, interviews, readings, library/internet research, etc. Cross-cultural and intercultural differences will also be emphasized. Idiomatic language will be taught.

ESL 271 **2.0 units**

Improving Fluency in Oral Communications

108 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or
Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass

An intermediate to advanced level communication course designed to develop fluency and confidence in spoken English, improve listening and pronunciation skills, teach common proverbs and idiomatic expressions used in Standard North American English, and provide practice in interpersonal communication skills.

ESL 272 **2.0 units**

Communication for the World of Work

108 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or
Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass

An intermediate level communication course to aid ESL students who encounter job-related language difficulties. Cultural information, language for interviewing, job applications, understanding work-related policies and procedures will be taught. Idiomatic language related to the world of work will be emphasized.

ESL 273 **2.0 units**

Intermediate Grammar

108 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or
Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass

A semester long intermediate level ESL course which teaches grammatical concepts of the English language. Grammar is taught in form-focused language-learning activities with ample opportunity for communicative interaction.

ESL 274 **2.0 units**

Reading about the United States

108 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or
Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass

This intermediate level reading course acquaints students with various cultural aspects of life in the United States. Students read and discuss narratives and general information articles from journals.

ESL 275 **2.0 units**

Writing for the World of Work

108 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or
Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass

This course is an intermediate level course to help students who encounter writing difficulties on the job. Memos, faxes, cover letters, general business letters, resumes, punctuation, and autobiographies will be emphasized.

ESL 275X **2.0 units**

Writing for the World of Work

108 hours laboratory
Grading: letter grade or pass/no pass

A computer-assisted, intermediate-level writing course which helps students who encounter writing difficulties on the job. Memos, faxes, cover letters, general business letters, resumes, punctuation, and autobiography will be taught.

ESL 602A **0.0 unit**

Reading Skills for ESL Students 1

27 hours lecture
Grading: LBCC Non-Graded Course

This first course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read, and build vocabulary. ESL 602A teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students learn the rules for morphology, spelling and reading to assist them in vocabulary building, pronunciation and comprehension. Course content coincides with ESL 800.

ESL 602B **0.0 unit**

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**0.0 unit****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**0.0 unit****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****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**0.0 unit****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.

ESL 640**0.0 unit****English for Everyday 0**

108 hours lecture

Grading: LBCC Non-Graded Course

This course is the first of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

ESL 641**0.0 unit****English for Everyday 1**

108 hours lecture

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**0.0 unit****English for Everyday 2**

108 hours lecture

Prerequisite: ESL 641 or one semester of 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.

ESL 643**0.0 unit****English for Everyday 3**

108 hours lecture

Prerequisite: ESL 642 or one semester of ESL 842 or Qualification 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 one semester of 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.

ESL 645 **0.0 unit**

English for Everyday 5

108 hours lecture

Prerequisite: 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.

ESL 800 **0.5 unit**

Basic ESL Reading

27 hours lecture

Grading: pass/no pass

This first course in a series of seven reading skills courses is designed to teach ESL student 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. Course content coincides with ESL 602A.

ESL 801 **0.5 unit**

Reading Skills for ESL Students

27 hours laboratory

Recommended Preparation: One semester of ESL 800

Grading: pass/no pass

Formerly ESL 801AB. This course is the second course in a series of seven reading skills courses. In ESL 801, students read for comprehension and to build vocabulary. Students will identify,

reproduce and comprehend words, sentences, paragraphs and passages without the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 800 and learn to analyze a passage for specific content and define words in context. The course content of ESL 801 coincides with ESL 602B.

ESL 802 **0.5 unit**

Reading Skills for ESL Students

27 hours laboratory

Recommended Preparation: One semester of ESL 801

Grading: pass/no pass

Formerly ESL 802AB. This course is the third course in a series of seven reading skills courses. In ESL 802, students identify, reproduce, and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 801, analyze a passage for specific content, and define words in context. The course content of ESL 802 coincides with ESL 602C.

ESL 803 **0.5 unit**

Reading Skills for ESL Students

27 hours laboratory

Recommended Preparation: One semester of ESL 802

Grading: pass/no pass

Formerly ESL 803AB. This course is the fourth course in a series of seven reading skills courses. In ESL 803, students identify, reproduce, and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 802, and analyze a passage for specific content, and define words in context. The course content of ESL 803 coincides with ESL 602D.

ESL 804 **0.5 unit**

Reading Skills for ESL Students

27 hours lecture

Recommended Preparation: One semester of ESL 803

Grading: pass/no pass

Formerly ESL 804AB. This course is the fifth course in a series of seven reading skills courses. In ESL 804, students read for comprehension to build vocabulary. Students will identify, reproduce and comprehend words, sentences, paragraphs, and passages with the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 803 and learn to analyze a passage for specific content and define words in context. The course content of ESL 804 coincides with ESL 602E.

ESL 805 **0.5 unit**

Reading Skills for ESL Students

27 hours lecture

Recommended Preparation: One semester of ESL 804

Grading: 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. In ESL 805, students read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 804 and in addition learn to identify central conflicts of stories and make inferences based on facts and details. The course content of ESL 805 coincides with ESL 602F.

ESL 806 **0.5 unit**

Reading Skills for ESL Students

27 hours lecture

Recommended Preparation: One semester of ESL 805

Grading: pass/no pass

Formerly ESL 806AB. This seventh course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. In ESL 806, students read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 805 and learn to identify central conflicts of stories and make inferences based on facts and details. The course content of ESL 806 coincides with ESL 602G.

ESL 810A **1.0 unit**

Fundamentals of English Grammar

54 hours laboratory

Recommended Preparation: ESL 645/845 or Equivalent skills as determined by ESL placement process.

Grading: pass/no pass

Formerly ESL 810. This course is designed for ESL students in the reading (ESL 860-861) and/or writing (ESL 54/56, 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 **1.0 unit**

Fundamentals of English Grammar 2

54 hours laboratory

Recommended Preparation: ESL 810A

Grading: pass/no pass

This course is designed for ESL students in the reading (ESL 862-863/READ 82) and/or writing (ESL 33/34, ENGL 105, 1) classes. This course is the second of a two-course 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 **0.5 unit**

Reading for Information and Pleasure

27 hours lecture

Recommended Preparation: ESL 645 or ESL 845 or placement course recommendation for ESL 146.

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 **0.5 unit**

Conversation 2

27 hours lecture

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 **0.5 unit**

Composition for ESL Students

27 hours lecture

Recommended Preparation: ESL 645 or ESL 845 or placement course recommendation for ESL 146.

Grading: pass/no pass

Formerly ESL 814AB. 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 **2.0 units**

Accent Reduction

108 hours laboratory

Recommended Preparation: ESL 645 or ESL 845

Grading: pass/no pass

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 818**0.5 unit****Vocabulary Development**

27 hours lecture

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**2.0 units****Introduction to College English 0**

108 hours laboratory

Grading: pass/no pass

Formerly ESL 840AB. This course is the first of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

ESL 841**2.0 units****Introduction to College English I**

108 hours laboratory

Prerequisite: ESL 640 or ESL 840 or Qualification through the LBCC assessment process for ESL.

Grading: pass/no pass

Formerly ESL 841AB. This course is the second of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

ESL 842**2.0 units****Introduction to College English 2**

108 hours laboratory

Prerequisite: ESL 641 or one semester of ESL 841 or Qualification through the LBCC assessment process for ESL.

Grading: pass/no pass

Formerly ESL 842AB. This course is the third of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

ESL 843**2.0 units****Introduction to College English 3**

108 hours laboratory

Prerequisite: ESL 642 or one semester of ESL 842 or Qualification through the LBCC assessment process for ESL.

Grading: pass/no pass

Formerly ESL 843AB. This course is the fourth of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

ESL 844**2.0 units****Introduction to College English 4**

108 hours laboratory

Prerequisite: ESL 643 or one semester of ESL 843 or Qualification through the LBCC assessment process for ESL.

Grading: pass/no pass

Formerly ESL 844AB. This course is the fifth of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

ESL 845**2.0 units****Introduction to College English 5**

108 hours laboratory

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 six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

ESL 860**5.0 units****Reading & Vocabulary 1**

90 hours lecture

Prerequisite: ESL147 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.

ESL 861**5.0 units****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**5.0 units****Reading & Vocabulary 3**

90 hours lecture

Prerequisite: ESL 861 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 863**5.0 units****Reading & Vocabulary 4**

90 hours lecture

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 non-native speakers of English.

ENGLISH AS A SECOND LANGUAGE**LEARNING CENTER****(ESLLC)****ESLLC 699****0.0 unit****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.

ENVIRONMENTAL SCIENCE**(ENVRS)****ENVRS 1****3.0 units****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

FAMILY AND CONSUMER STUDIES**(FACS)****FACS 50****3.0 units****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

FACS 64**3.0 units****Life Management**

54 hours lecture

Grading: letter grade or pass/no pass

This course provides individuals with skills for understanding and using resources for effective functioning now and in the future. Major topics include steps in goal setting; problem solving and value clarifications; time, energy, stress, and conflict management; education and career planning; effect of cultural forces and future trends on goals, values, standards, and time management.

Transferable to CSU

FASHION**(FD)****FD 3****2.0 units****Intro to Careers in Design/Merchandising**

36 hours lecture

Grading: letter grade or pass/no pass

This course surveys the fashion industry and related occupations emphasizing employment opportunities, personal qualifications and skills required for employment.

Transferable to CSU

FD 5**2.0 units****Intro/Manufacturing for Design/Merchandising**

36 hours lecture

Grading: letter grade or pass/no pass

This course serves as an introduction to garment manufacturing in the apparel industry; from the design concept through sourcing and pricing to the production of a clothing line. The course is required for fashion design and fashion merchandising majors.

Transferable to CSU

FD 9**3.0 units****Clothing Selection**

54 hours lecture

Grading: letter grade or pass/no pass

Apparel selection for the individual and family based on aesthetic guidelines, cultural influences and consumer needs.

Transferable to CSU

FD 10**3.0 units****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**3.0 units****Introduction to Fashion Merchandising**

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 22A**1.5 units****Merchandising for Profit I**

27 hours lecture

Recommended Preparation: FD 20

Grading: letter grade or pass/no pass

This course covers the calculation, interpretation and analysis of the profit and loss statement. Basic pricing and repricing of merchandise and the importance of markup to profitable merchandising is explained and discussed. The course is typically offered for 9 weeks.

Transferable to CSU

FD 22B**1.5 units****Merchandising for Profit II**

27 hours lecture

Recommended Preparation: FD 20

Grading: letter grade or pass/no pass

This course emphasizes quantitative merchandising techniques as applied to inventory and dollar control, discounts, dating procedures and shipping terms. The course is typically offered for 9 weeks.

Transferable to CSU

FD 23**3.0 units****Fashion/Merchandise Buying**

54 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

FD 24**1.5 units****Beginning Sewing**

18 hours lecture, 36 hours laboratory
 Grading: letter grade or pass/no pass

Formerly FD 24AB. This course covers the construction of simple garments using basic techniques of clothing construction. Principles and methods related to constructing both woven and knit fabrics will be covered.

Transferable to CSU

FD 25**1.5 units****Intermediate Sewing**

18 hours lecture, 36 hours laboratory
 Grading: letter grade or pass/no pass

Formerly FD 25AB. This course focuses on intermediate clothing construction techniques as they apply to both woven and knit fabrics. Typical projects include a tailored shirt or blouse, fitted slacks with a waistband and knit shirts with neckline variations.

Transferable to CSU

FD 26**2.0 units****Advanced Sewing**

18 hours lecture, 54 hours laboratory
 Recommended Preparation: One semester of FD 24 and FD 25
 Grading: letter grade or pass/no pass

Formerly FD 26AB. This course uses advanced construction techniques in working with complex patterns and difficult fabrics. The student must consider proper selection of line and design for his/her figure, as well as fabric and equipment for professional clothing construction.

Transferable to CSU

FD 27**1.5 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 the production methods of the garment manufacturing industry. Occupational certificate is awarded upon completion of eight units.

Transferable to CSU

FD 29**2.0 units****Tailoring**

18 hours lecture, 54 hours laboratory
 Grading: letter grade or pass/no pass

Formerly FD 29AB. This course covers the principles of tailoring techniques and finishes as applied to men's or women's clothing.

Transferable to CSU

FD 32**3.0 units****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 costume as a social record and how costume has influenced lifestyle, culture and contemporary fashions. The course emphasizes costume, its effects and relationships to political, social and economic conditions.

Transferable to CSU

FD 36A**1.5 units****Pattern Drafting I: Basic Block**

18 hours lecture, 27 hours laboratory
 Recommended Preparation: FD 24 or Beginning sewing skills
 Grading: letter grade or pass/no pass

This is a beginning course in pattern drafting. The students will develop a basic block pattern for the commercial dress form or individual figure.

Transferable to CSU

FD 36B**1.5 units****Pattern Drafting II: Pattern Manipulation**

18 hours lecture, 27 hours laboratory
 Recommended Preparation: FD 36A
 Grading: letter grade or pass/no pass

This is an intermediate course in the manipulation of the basic blocks drafted for commercial dress forms or individual figure.

Transferable to CSU

FD 37A**1.5 units****Pattern Draping I: Basic Sloper**

18 hours lecture, 27 hours laboratory
 Grading: letter grade or pass/no pass

This is a beginning course which includes freehand methods of pattern making and creating the basic sloper in muslin on dress forms. Each muslin is turned into a paper pattern, cut and constructed to produce the finished garment.

Transferable to CSU

FD 37B**1.5 units****Pattern Draping II: Sloper Manipulations**

18 hours lecture, 27 hours laboratory
 Recommended Preparation: FD 37A
 Grading: letter grade or pass/no pass

This is an intermediate course in the freehand methods (draping) of manipulating a basic sloper to create finished designs. Each muslin is turned into a paper pattern, cut and constructed to produce a finished garment.

Transferable to CSU

FD 38A	3.0 units	FD 40	1.5 units
<p>Fashion Design I 36 hours lecture, 54 hours laboratory Recommended Preparation: FD 36A and FD 36B, FD 24 and one semester of FD 214. Grading: letter grade or pass/no pass</p> <p>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</p>		<p>Advanced and Production Pattern Drafting 18 hours lecture, 36 hours laboratory Recommended Preparation: FD 36B Grading: letter grade or pass/no pass</p> <p>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</p>	
FD 38B	3.0 units	FD 41	2.5 units
<p>Fashion Design II 36 hours lecture, 54 hours laboratory Recommended Preparation: FD 37B and FD 24 and one semester of FD 214. Grading: letter grade or pass/no pass</p> <p>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</p>		<p>Fashion Show Production 36 hours lecture, 36 hours laboratory Grading: letter grade or pass/no pass</p> <p>Formerly FD 41AD. Students plan and implement a professional fashion show production from concept to runway. Information on the details of planning, budgeting and producing fashion oriented events, plus the opportunity for "hands-on" experience in producing an actual event will be provided. Transferable to CSU</p>	
FD 38C	3.0 units	FD 45A	1.5 units
<p>Fashion Design III 36 hours lecture, 54 hours laboratory Recommended Preparation: FD 38A and FD 38B Grading: letter grade or pass/no pass</p> <p>This is an advanced course that provides an opportunity to design, illustrate, draft, drape and construct full-scale designs for a portfolio or fashion showing. Transferable to CSU</p>		<p>Computer Applications in Fashion 18 hours lecture, 36 hours laboratory Grading: letter grade or pass/no pass</p> <p>Formerly FD 245AD. This course is designed to teach students to effectively use a variety of computer word processing/illustration/design programs frequently used in the fashion industry: Microsoft Word, Microsoft PowerPoint and Adobe Illustrator. Transferable to CSU</p>	
FD 38D	3.0 units	FD 45B	1.5 units
<p>Fashion Design IV 36 hours lecture, 54 hours laboratory Recommended Preparation: FD 38A, FD 38B, FD 38C Grading: letter grade or pass/no pass</p> <p>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</p>		<p>Advanced Computer Fashion Illustration 18 hours lecture, 36 hours laboratory Grading: letter grade or pass/no pass</p> <p>This course is designed to teach students to effectively use computer illustration/design programs to create line sheets, color ways, renderings, recolorations and graphic placements. Students will gain experience in using industry standard image editing software such as Adobe Illustrator and Photoshop. Transferable to CSU</p>	
FD 39A	1.0 unit	FD 70	1.0 unit
<p>Garment Technical Packages 18 hours lecture, 9 hours laboratory Grading: letter grade or pass/no pass</p> <p>This course covers the development of offshore technical packages to include: garment knock-offs, pattern adjustment, appropriate fit, fabric qualities and package specifications. Transferable to CSU</p>		<p>Work Experience Issues-Fashion Design 18 hours lecture Corequisite: Enrollment in FD 71, FD 72 or FD 73 NOTE: You must enroll in the corequisite course before enrolling in this course. Grading: letter grade or pass/no pass</p>	

This course is a seminar related to work experience. Included is discussion of work experience objectives, career goals, employment search, communication skills and problem solving. Creation of resumes and cover letters will be covered and completed.
Transferable to CSU

FD 71 **1.0 unit**

Work Experience-Fashion Design

74 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline.

Grading: letter grade or pass/no pass

This course involves vocational learning experiences through employment (on-the-job, paid or non- paid) directly related to the industry. This course may be repeated 4 times (semesters).

Transferable to CSU

FD 72 **2.0 units**

Work Experience-Fashion Design

149 hours laboratory

Corequisite: Concurrent enrollment in at least one additional course in the discipline.

Grading: letter grade or pass/no pass

This course is Vocational learning experiences through employment (on-the-job, paid or non-paid) directly related to the industry.

Transferable to CSU

FD 73 **3.0 units**

Work Experience-Fashion Design

225 hours laboratory

Corequisite:Concurrent enrollment in at least one additional course in the discipline.

Grading: letter grade or pass/no pass

This course is Vocational learning experiences through employment (on-the-job, paid or non-paid) directly related to the industry.

Transferable to CSU

FD 200 **1.0 unit**

Fashion Prediction/Promotion: Crit View

18 hours lecture

Grading: letter grade or pass/no pass

This course presents techniques for critical viewing of fashion prediction and promotion services including services which may include Video Fashion Monthly, Video Fashion News, National Association of Men's Sportswear Buyers, California Apparel News, Daily News Record, Fashion News Report and Ready To Wear Report.

FD 214 **2.0 units**

Quick Sketch Croquis Drawing

18 hours lecture, 54 hours laboratory

Grading: letter grade or pass/no pass

Formerly FD 214AB.This beginning sketch course focuses on the skills necessary for the fashion industry. Students will learn to draw all aspects of garments on the figure and in flat technical drawings using a croquis (template). Fabrics will be rendered in color using marker techniques.The updated fashion figure proportion will be covered. Students will focus on layout of line presentation boards.

FD 215 **2.0 units**

Fashion Sketching I

18 hours lecture, 54 hours laboratory

Grading: letter grade or pass/no pass

Formerly FD 215AB.This is a beginning drawing class for both design and merchandising students which stresses the basic proportions of the female and male fashion figure. The course will cover figure proportion, body movement, action poses, head, hand, foot and leg studies,and various drawing styles and mediums for expressing the fashion figure.

FD 216 **2.0 units**

Fashion Portfolio Development

18 hours lecture, 54 hours laboratory

Recommended Preparation: One semester of FD 214 and FD 215 and FD 245

Grading: 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 virtual portfolio and portfolio book to be presented on job interviews. The class emphasizes drawing the fashion figure, fabric rendering and digitally manipulating fabric prints, computerized flat technical drawings, and layout techniques for line presentation utilizing hand rendering techniques and a multimedia computer as a tool.

FD 230 **0.5 unit**

Fashion Design Laboratory

27 hours laboratory

Corequisite: Concurrent enrollment in a fashion design course.

Grading: 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.

FD 231**0.5 unit****Fashion Design Lab-Garment Closures**

27 hours laboratory

Corequisite: FD 38A or FD 38B or FD 38C or FD 38D

Grading: 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.

FD 240**2.5 units****Fashion Show Promotion and Management**

36 hours lecture, 36 hours laboratory

Prerequisite: FD 41

Grading: letter grade or pass/no pass

Students learn concepts, practices and procedure related to promotion and management of a fashion event. Course work includes planning, budgeting, directing, and evaluating promotional activities such as visual merchandising, publicity, and personal and non-personal selling for a fashion event.

FD 244**1.0 unit****Computer Patternmaking**

18 hours lecture, 18 hours laboratory

Grading: 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 PDS 2000 (Pattern Design System by Gerber Technology). Industry techniques and methods for creating and manipulating apparel patterns are presented.

FD 258**1.0 unit****Swimwear**

9 hours lecture, 27 hours laboratory

Grading: 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. This class is typically taught in 9 weeks.

FILM**(FILM)****FILM 1****3.0 units****Introduction to Film Studies**

54 hours lecture

Recommended Preparation: ENGL 105 or ESL 34 or qualify for ENGL 1 through the assessment process.

Grading: letter grade or pass/no pass

This course serves as an introduction to the evaluation of film as an art form through an analysis and appreciation of its aesthetics, history, literature, creative techniques and expression of its societies and cultures, together with its influence on twentieth century values.

Transferable to UC or CSU; see counselor for limitations

FILM 2A**3.0 units****Film History I**

54 hours lecture

Recommended Preparation: FILM 1

Grading: letter grade or pass/no pass

This course is a study of the trajectory of film history from invention to World War II. 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 examine the work of several historically significant filmmakers. Transferable to UC or CSU; see counselor for limitations

FILM 2B**3.0 units****Film History II**

54 hours lecture

Recommended Preparation: FILM 1

Grading: 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 CSU

FILM 10**3.0 units****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 basic film genres while also exploring their artistic, social, cultural, political and ideological contexts. The emphasis is on such types as the science-fiction film, western, gangster film, crime and detective thriller ("film noir"), musical, comedy, or horror film. The particular genre for

study will change each semester, based upon the instructor's choice. Genre topics will be listed as a subheading in each semester's course schedule.

Transferable to UC or CSU; see counselor for limitations

FILM 11 **3.0 units**

Film Directors and Artists

54 hours lecture

Recommended Preparation: FILM 1

Grading: letter grade or pass/no pass

This class involves a survey and critical analysis of films by various film directors within the Film Industry. The class will deconstruct a film director's work (instructor's choice) throughout the course of the semester, focusing specifically on technical, thematic, ideological, socio-cultural, and political similarities that span the director's career. Students will be expected to articulate specific insights of director's work through essay writing and exams.

Transferable to UC or CSU; see counselor for limitations

FILM 20 **3.0 units**

Fundamentals of Digital Film Production

36 hours lecture, 72 hours laboratory

Prerequisite: FILM 1 (may be taken concurrently)

Grading: letter grade or pass/no pass

This course introduces the basic principles of film production, including operation of equipment and details involved in making a film from idea development to final production. The course encompasses lectures and lab workshops as well as group and individual projects.

Transferable to UC or CSU; see counselor for limitations

FILM 21 **3.0 units**

Intermediate Digital Film Production

36 hours lecture, 72 hours laboratory

Prerequisite: FILM 20

Recommended Preparation: FILM 40

Grading: letter grade or pass/no pass

This class provides intermediate film production experiences for the transfer film major. It includes editing, directing, scripting and producing, with special emphasis on pre- and post-production considerations.

Transferable to UC or CSU; see counselor for limitations

FILM 25 **3.0 units**

Introduction to Digital Cinematography

36 hours lecture, 72 hours laboratory

Prerequisite: FILM 20

Grading: 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 CSU

FILM 35 **4.0 units**

Film Production Workshop

54 hours lecture, 81 hours laboratory

Prerequisite: One semester of FILM 20

Grading: letter grade or pass/no pass

Formerly FILM 35AD. This is an intensive course in the complete experience of filmmaking. In a concentrated format, students will create their own films putting to practical application the fundamental techniques in all phases of motion picture production, including the creation of a story idea and script, camera operation, the use of sound, the editorial process, and techniques of picture and sound production.

Transferable to UC or CSU; see counselor for limitations

FILM 40 **3.0 units**

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 60 **1.0 unit**

Special Projects in Film

54 hours laboratory

Prerequisite: FILM 21

Grading: letter grade or pass/no pass

Formerly FILM 60AD. This course permits lower division students with generalized background in cinema to explore an in-depth specific aspect of cinema in theory and execution and topics not covered in other courses currently offered. Transferable to CSU

FIRE SCIENCE

(FIRE)

FIRE 1

3.0 units

Fire Protection Organization

54 hours lecture
Grading: letter grade

This course will outline the components of fire protection, and career opportunities in the fire protection and suppression fields. It will introduce the philosophy and history of fire protection and analyze the effects of fire losses to the community. The course will address the organization and functions of public and private fire protection services and will address fire departments as part of local governments including the laws and regulations affecting the fire service. This course will introduce students to fire service nomenclature, specific fire protection functions, and the culture of the fire service. This course will introduce students to 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 will cover the components of building construction methods which are relevant to firefighter safety. The components of building design and methods of construction of structures are known to be key factors

when inspecting buildings, preplanning fire operations and operating at fire scenes. The development and evolution of building and fire codes will be analyzed and compared to previous fires which have occurred in residential, commercial and industrial occupied structures.
Transferable to CSU

FIRE 5

3.0 units

Fire Behavior and Combustion

54 hours lecture
Grading: letter grade

This course will present the theory and fundamentals of how and why fires start, and the factors which affect the spread of fires. A study of the basic fundamentals of fire chemistry and their physical components will be presented and discussed. In addition, an analysis of fires characteristics and the effects of extinguishing agents and fire management methods are studied.
Transferable to CSU

FIRE 53

3.0 units

Fire Hydraulics

54 hours lecture
Grading: letter grade

This course provides a study of applied math and formula calculations of hydraulics in conjunction with the procedures of the fire service industry, and includes the application of mental hydraulic calculations. The course will introduce students to basic components required when utilizing water supplies methods and procedures.
Transferable to CSU

FIRE 54

3.0 units

Hazardous Materials 1

54 hours lecture
Grading: letter grade

This course is a study of basic fire chemistry and physics. A variety of topics will be addressed, including problems of flammability encountered by firefighters during fire suppression activities. Topics that will be examined are the dynamics associated during fire suppression activities involving fuels and chemical oxidizers in conjunction with hazardous materials during storage and transport.
Transferable to CSU

FIRE 57

3.0 units

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.
Transferable to CSU

FIRE 58 **3.0 units**

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 **3.0 units**

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 62 **3.0 units**

Fire Apparatus and Equipment

54 hours lecture
Grading: 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 64 **3.0 units**

Hazardous Materials 2

54 hours lecture
Grading: letter grade

This course is a continuing study of hazardous materials addressing the identification of explosives, toxic substances and radioactive materials in storage and in transit.

Transferable to CSU

FIRE 65 **3.0 units**

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 203 **1.0 unit**

Fire Tools, Equipment & Related Tech

18 hours lecture, 18 hours laboratory
Grading: pass/no pass

This course is a hands-on tool class to assist fire science students in recognizing and using the hand and power tools used in the fire fighter occupation. The course emphasis is on safety procedures and efficient use of tools and equipment.

FIRE 240 **0.5 unit**

Firefighter I Physical Agility

4 hours lecture, 16 hours laboratory
Grading: letter grade or pass/no pass

This course is designed to assess physical agility requirements for the fire service. It includes a review of nutritional facts and physical training principles. The course meets the statewide standards of the CalChiefs organization.

FIRE 298A **1.0 unit**

Exp Fire Tools, Equipment and Related Tech

12 hours lecture, 20 hours laboratory
Grading: letter grade

This course is a hands-on tool class to assist fire science students in recognizing and using the hand and power tools used in the fire fighter occupation. The course emphasis is on safety procedures and efficient use of tools and equipment.

FLORAL DESIGN
(FLO)

FLO 286A **2.0 units**

Introduction to Floral Design: Fall Flowers

27 hours lecture, 27 hours laboratory
Grading: letter grade or pass/no pass

This course covers the elements and principles of design, color coordination, basic floral arranging and basic corsage construction. Nomenclature of flowers and foliage and their uses are included. FLO 286A covers fall flowers; FLO 286B covers spring flowers.

FLO 286B**2.0 units****Introduction to Floral Design: Spring Flowers**27 hours lecture, 27 hours laboratory
Grading: letter grade or pass/no pass

This course covers the elements and principles of design, color coordination, basic floral arranging and basic corsage construction. Nomenclature of flowers and foliage and their uses are included. FLO 286A covers fall flowers; FLO 286B covers spring flowers.

FLO 287A**2.0 units****Intermediate Floral Design-Wedding**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 hands-on, step-by-step course covers each phase of wedding flowers: design, mechanics and construction of floral products, marketing and selling flowers for church, hotel and home/garden wedding and reception setup.

FLO 287B**2.0 units****Intermediate Floral Design-Sympathy**27 hours lecture, 27 hours laboratory
Recommended Preparation: One semester of FLO 286A or FLO 286B
Grading: letter grade

This is one of three courses which constitute a comprehensive overview of techniques used at an intermediate level within the floral industry. Complete instructions on the art and science of designing sympathy flowers are included, from the elaborate casket to simple home tributes. The course focuses on mechanics and construction for efficiency in design.

FLO 287C**2.0 units****Intermediate Floral Design-Banquet Holiday**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****Advanced Floral Design**27 hours lecture, 27 hours laboratory
Recommended Preparation: FLO 286A-B and FLO 287A-B
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**3.0 units****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**0.5 unit****Floral Creativity and Competition**9 hours lecture, 18 hours laboratory
Recommended Preparation: Intermediate floral design skills.
Grading: letter grade or pass/no pass

Individualized, non-standard, contemporary flower arrangements will be created emphasizing the use of the student's own imagination and creative talent. This course will broaden the student's design experience, 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.

FOOD AND NUTRITION**(F_N)****F_N 20****3.0 units****Nutrition and Life**54 hours lecture
Grading: letter grade or pass/no pass

This course is an introduction to the basic physiological, psychological, social and biochemical principles related to human nutrition.
Transferable to UC or CSU; see counselor for limitations

F_N 21

4.0 units

Food Selection and Meal Preparation

54 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course introduces the knowledge and skills related to food selection and preparation, food product standards and factors contributing to the quality of prepared food.
Transferable to CSU

F_N 26

1.0 unit

Nutrition for the Active Person

18 hours lecture
Grading: letter grade or pass/no pass

This course is designed to assist the athlete and those who are physically active in examining his or her special nutritional needs based upon current research. Topics that are emphasized in the course include the nutritional needs of the athlete versus the non-athlete, improving athletic performance through nutrition and how to evaluate athletic diets such as high protein diets, carbohydrate loading and pre-game meals.
Transferable to CSU

F_N 224

3.0 units

Sanitation, Safety and Equipment

54 hours lecture
Grading: letter grade or pass/no pass

This course covers the application of basic safety and sanitation principles for a food service operation, the criteria used to evaluate equipment design and how to write equipment specifications.

F_N 225

3.0 units

Intro to Food Service/Work Organizations

54 hours lecture
Grading: letter grade or pass/no pass

This course covers the scope, organization, management and administration of a food service system operating within a health care, community or school feeding program. Topics include facility layout and design, motion economy, task analysis and method improvement, and the education and experience necessary for employment.

F_N 227

3.0 units

Supervision and Training Techniques

54 hours lecture
Grading: letter grade or pass/no pass

This course trains students for supervisory positions in food service operations related to health care facilities. Emphasis will include staff selection, training, presentation techniques, communication and staff development.

F_N 228

3.0 units

Food Production Management

54 hours lecture
Grading: letter grade or pass/no pass

This course introduces management techniques related to food service operations. Menu planning, production scheduling, equipment utilization, staffing and service systems are presented in this course. Students are required to complete 3 hours throughout the course of the semester in a Multidisciplinary Success Center to complete activities and assignments that relate specifically to this course's content.

F_N 230AC

2.0 units

Clinical Field Experience I

18 hours lecture, 90 hours laboratory
Grading: pass/no pass

This course provides supervised clinical field experience in health care facilities for dietetic service supervisor and nutrition assistant program students. Students learn and practice the skills necessary to coordinate a health care food service facility.

F_N 231

3.0 units

Menu Planning and Food Purchasing

54 hours lecture
Grading: letter grade

This course covers the planning and design of health care institutional menus. Topics include: nutritional adequacy, psychological needs, types of operation, equipment and skill of personnel. Purchasing and costing of food, analysis of food quality, writing specifications, ordering, receiving and storing of food and supplies are also covered.

F_N 232

3.0 units

Therapeutic Diets

54 hours lecture
Recommended Preparation: F_N 20(may be taken concurrently)
Grading: letter grade

This course presents the principles of an indication for therapeutic diets in the treatment of diseases and disorders. Course content applies to dietetics programs in hospitals, convalescent and extended care facilities.

F_N 233

1.0 unit

Special Topics-Health Care Dietetics

18 hours lecture
Grading: letter grade or pass/no pass

This course covers a variety of topics of interest to professionals in the field of health care dietetics/food and nutrition as well as nutrition/dietetics students. The latest developments and trends in the field will be addressed, such as medical nutrition therapies, nutrition care, and new products and resources.

Course subject matter varies by semester; see the schedule of classes. This course may be repeated for credit as topics change.

F_N 234 **3.0 units**

Advanced Nutrition Care

54 hours lecture

Prerequisite: F_N 232

Grading: letter grade or pass/no pass

This course presents nutrition education principles and techniques for the individual, family and small groups in normal, modified and preventive nutrition care throughout the lifecycle. Computer applications and cultural implications will be covered in this course.

F_N 235 **3.0 units**

Advanced Medical Nutrition Therapy

54 hours lecture

Recommended Preparation: F_N 232

Grading: letter grade

This course presents an advanced study of medical nutrition therapy with applications in diet counseling, menu modification, communication, documentation, education and appropriate food service delivery.

F_N 236 **1.0 unit**

Dietetic Seminar

18 hours lecture

Grading: letter grade or pass/no pass

This course serves as an introduction to the development of professionalism and a team concept in the dietetic health care system. The course examines financing, planning and regulating health care services related to dietetics, as well as the standards of professional responsibility and the code of ethics for the profession of dietetics.

F_N 240AC **2.0 units**

Clinical Field Experience II

180 hours laboratory

Recommended Preparation: Two semesters of F_N 230AC

Grading: pass/no pass

This course provides supervised clinical experience in health care facilities for students in the Nutrition Assistant Program. Students will learn and practice skills necessary to provide nutritional care services to clients in health care settings.

F_N 250 **2.0 units**

Nutrition for Culinary Arts

36 hours lecture

Grading: letter grade or pass/no pass

This course provides a practical approach to the application of sound nutritional practices in the food service setting.

Culinary arts students and professionals will be able to incorporate healthful nutritional knowledge in their personal and professional lives. This course includes nutrition as it relates to health throughout the life cycle, menu/recipe design and modification, food product selection, and current trends in consumer preference.

F_N 252A **1.5 units**

Cake Decorating Techniques

18 hours lecture, 36 hours laboratory

Grading: letter grade or pass/no pass

Formerly 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.

F_N 252B **1.5 units**

Cake Decorating for Special Occasions

18 hours lecture, 36 hours laboratory

Grading: letter grade

Topics in this course cover 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.

F_N 253 **1.0 unit**

Food Handler Certification

18 hours lecture

Grading: letter grade or pass/no pass

This course will address the required standards of sanitation and safety in the handling, preparation and serving of food to protect the public's health. Students will receive a Food Handler Certificate after passing the food handler exam given at the conclusion of the course. This Certificate required for those working in a food service establishments and meets the California State Health Code.

F_N 255C **1.0 unit**

Nutrition for Adults and Aging

18 hours lecture

Grading: letter grade or pass/no pass

This course provides the most recent information in the specific area of nutrition. Facts and fallacies and life cycle nutrition focusing on seniors are emphasized.

F_N 255D **1.0 unit**

Vegetarian Lifestyle

18 hours lecture

Grading: letter grade or pass/no pass

This course provides the knowledge to plan and practice a vegetarian lifestyle and maintain optimum nutrition. Topics

will include the benefits and cautions of the vegetarian diet, variations of the diet and how to combine non-meat proteins.

F_N 256 **2.0 units**

Weight Control & Energy Balance

36 hours lecture
Grading: letter grade or pass/no pass

This course presents techniques of long term weight control. The following areas are addressed in this course: assessment of ideal body weight, techniques of diet/behavior modification, emotional eating triggers, and principles of energy balance through the modification of diet.

F_N 260 **1.0 unit**

Cultural Foods

18 hours lecture, 18 hours laboratory
Grading: letter grade or pass/no pass

Formerly 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.

F_N 261 **1.0 unit**

Cooking for Wellness

18 hours lecture, 18 hours laboratory
Grading: letter grade or pass/no pass

Formerly 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.

F_N 262 **1.0 unit**

Cooking for Singles

18 hours lecture, 18 hours laboratory
Grading: letter grade or pass/no pass

Formerly 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.

**FOREIGN LANGUAGE,
CHINESE**

(CHIN)

CHIN 1 **5.0 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). It is designed to further develop students' competency in speaking, listening, reading, and writing. Topics will be placed in the contemporary context in the Chinese world.

Transferable to UC or CSU; see counselor for limitations

**FOREIGN LANGUAGE,
FRENCH**

(FREN)

FREN 1 **5.0 units**

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.

Transferable to UC or CSU; see counselor for limitations

FREN 1C **5.0 units**

French 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 CSU

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 2C **5.0 units**

French 2 for Spanish Speakers

90 hours lecture, 18 hours laboratory

Prerequisite: FREN 1C

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 and underscoring structural similarities between French and Spanish that facilitate French language-acquisition, based on modern topical material.

Transferable to CSU

FREN 3 **5.0 units**

Intermediate French

90 hours lecture

Prerequisite: FREN 2

Grading: letter grade or pass/no pass

This course consists of French grammar presentation and review. Students will also study vocabulary and idiomatic expressions based on situational dialogues, articles, and readings which reflect various French-speaking cultures. There is continued listening and speaking practice, as well as development of reading and writing skills.

Transferable to UC or CSU; see counselor for limitations

FREN 4 **5.0 units**

Intermediate French

90 hours lecture

Prerequisite: FREN 3 or recent completion of three years High School French.

Grading: letter grade or pass/no pass

This course consists of a continuation of French grammar presentation and review, emphasizing more advanced structures. Students will also read, analyze and evaluate short stories and literary selections by famous Francophone authors. There will be extensive practice in spoken and written communication.

Transferable to UC or CSU; see counselor for limitations

FREN 25A **3.0 units**

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 topic-related 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

**FOREIGN LANGUAGE,
GERMAN
(GER)**

GER 1 **5.0 units**

Elementary German

90 hours lecture, 18 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to the German language and emphasizes the four skills necessary for language acquisition: listening, speaking, reading and writing. Students will learn the sound system and elementary grammatical structures to be able to communicate at a basic level. This course exposes students to everyday situations and cultural topics of the German speaking world. It is not recommended for native speakers.

Transferable to UC or CSU; see counselor for limitations

GER 2 **5.0 units**

Elementary German

90 hours lecture, 18 hours laboratory

Prerequisite: GER 1

Grading: letter grade or pass/no pass

This course is a continuation of the study of basic grammar forms. Emphasis is placed on vocabulary expansion for meaningful communication. The four language learning skills, listening, reading, speaking and writing, are practiced and evaluated on a regular basis.

Transferable to UC or CSU; see counselor for limitations

FOREIGN LANGUAGE, ITALIAN

(ITAL)

ITAL 1

5.0 units

Elementary Italian

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. Students will learn the sound system and basic grammatical structures. This course exposes students to everyday situations and cultural topics of the Italian culture. It is not recommended for native speakers of Italian.

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 CSU

ITAL 2

5.0 units

Elementary Italian

90 hours lecture, 18 hours laboratory

Prerequisite: ITAL 1

Grading: letter grade or pass/no pass

This course is a continuation of the study of basic Italian vocabulary and grammar forms, emphasizing listening and speaking, reading and writing, based on modern topical material.

Transferable to UC or CSU; see counselor for limitations

ITAL 2C

5.0 units

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 CSU

ITAL 4

5.0 units

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

5.0 units

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

5.0 units

Elementary Japanese

90 hours lecture, 18 hours laboratory

Prerequisite: JAPAN 1

Grading: letter grade or pass/no pass

This course is the second of two beginning courses on the fundamentals of modern Japanese. Students will acquire further competency in the four skills necessary for language acquisition: listening, speaking, reading and writing. This course 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 CSU

FOREIGN LANGUAGE, KHMER

(KHMER)**KHMER 9****5.0 units****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 CSU

KHMER 10**5.0 units****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 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 CSU

FOREIGN LANGUAGE, SPANISH

(SPAN)**SPAN 1****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. It is not recommended for native speakers of Spanish.

Transferable to UC or CSU; see counselor for limitations

SPAN 2**5.0 units****Elementary Spanish**

90 hours lecture, 18 hours laboratory

Prerequisite: SPAN 1

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

SPAN 3**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**5.0 units****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

SPAN 8**3.0 units****Spoken Spanish**

54 hours lecture

Prerequisite: SPAN 2

Grading: letter grade or pass/no pass

This course is designed to improve comprehension, structure, oral expression and fluency in Spanish used in travel, in the home, in school and in business. This course emphasizes vocabulary, idioms and language patterns fundamental to an active use of Spanish. This course is not recommended for native speakers of Spanish.

Transferable to CSU

SPAN 9**5.0 units****Spanish for Spanish Speakers**

90 hours lecture

Recommended Preparation: Fluency in spoken Spanish

Grading: letter grade or pass/no pass

This course is the first semester of intermediate Spanish. It develops reading and writing skills of native Spanish speakers as well as perfects their oral skills. Students explore the intellectual and cultural connections and variations of the Hispanic culture in Latin America, the U.S. and Spain. This course also includes extensive review of Spanish grammar, and spelling and writing conventions.

Transferable to UC or CSU; see counselor for limitations

SPAN 9H**5.0 units****Honors Spanish for Spanish Speakers**

90 hours lecture

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**5.0 units****Spanish for Spanish Speakers**

90 hours lecture

Recommended Preparation: SPAN 9 or fluency in spoken Spanish

Grading: letter grade or pass/no pass

This course is the second semester of intermediate Spanish. It continues developing reading and writing skills of native Spanish speakers. It also includes an extensive grammar review. The Hispanic cultural and reading materials support the development and understanding of writing styles and techniques, enabling the Spanish speaker to apply them to creative writing and to use argument and debating skills in novel situations.

Transferable to UC or CSU; see counselor for limitations

SPAN 10H**5.0 units****Honors Spanish for Spanish Speakers**

90 hours lecture

Prerequisite: 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**3.0 units****Advanced Spanish: Culture in Literature**

54 hours lecture

Prerequisite: SPAN 4 or 10

Grading: letter grade or pass/no pass

This course is a survey course that explores the relationship between culture and literature. The course will look at literary works of Latino authors from Latin America, Spain and the U.S. and will study the social-historical evolution of cultural norms as portrayed in literature.

Transferable to UC or CSU; see counselor for limitations

SPAN 25B**3.0 units****Advanced Spanish: History**

54 hours lecture

Prerequisite: SPAN 4 or 10

Grading: letter grade or pass/no pass

This course is a survey course that explores the historical and cultural evolution of the Spanish-speaking world, beginning with the origins of Spain to contemporary Spain, Latin America and the Hispanic communities in the U.S.

Transferable to UC or CSU; see counselor for limitations

SPAN 25C**3.0 units****Advanced Spanish: Politics, Current Event**

54 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 25D**3.0 units****Advanced Spanish: Literature**

54 hours lecture

Prerequisite: SPAN 4 or 10

Grading: letter grade or pass/no pass

This course is a literature survey course that studies major literary works from Spain and Latin America. The course will cover basic concepts of literary theory and literary criticism in Spanish.

Transferable to UC or CSU; see counselor for limitations

FOREIGN LANGUAGE, VIETNAMESE

(VIET)**VIET 1****5.0 units****Elementary Vietnamese**

90 hours lecture, 18 hours laboratory

Grading: letter grade or pass/no pass

This is the first course in Vietnamese. It introduces students to the four basic skills necessary for language acquisition: listening, speaking, reading and writing. Students will learn the sound system, appropriate vocabulary and basic grammatical structures. In addition, this course exposes students to everyday situations and cultural topics of the Vietnamese speaking world.

Transferable to UC or CSU; see counselor for limitations

VIET 2**5.0 units****Elementary Vietnamese**

90 hours lecture, 18 hours laboratory

Prerequisite: VIET 1 or VIET 1A and VIET 1B

Grading: letter grade or pass/no pass

This course is a continuation of the study of Vietnamese vocabulary and grammar forms, emphasizing listening and speaking, reading and writing based on modern topical material.

Transferable to CSU

FORKLIFT

(FORK)**FORK 801****1.0 unit****Forklift Safety and Operation**

14 hours lecture, 11 hours laboratory

Grading: pass/no pass

This course will cover the safety and operation of the forklift, including basic lifting principles, load rating, stability and operation techniques.

GEOGRAPHY

(GEOG)**GEOG 2****3.0 units****Elements of Cultural Geography**

54 hours lecture

Grading: letter grade or pass/no pass

This course is a study of diverse human populations, their cultural origins, diffusion and contemporary spatial expressions.

Transferable to UC or CSU; see counselor for limitations

GEOG 5**3.0 units****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**3.0 units****Intro to Geographic Information Systems**

54 hours lecture

Recommended Preparation: Familiar with Internet or computer literacy.

Grading: letter grade

This course provides an introduction to mapping and geographic information science, which includes computer systems and software for geographic analysis, cartography, global positioning systems and remote sensing. Included are geographic concepts for spatial analysis and work on practical applications with computer software.

Transferable to UC or CSU; see counselor for limitations

GEOG 15F**2.0 units****Field Geography**

18 hours lecture, 54 hours laboratory

Recommended Preparation: GEOG 2 or PGEOG 1 or GEOG 40 or GEOG 48

Grading: letter grade or pass/no pass

This class will expose geography majors and others to the techniques employed by geographers in the field. Classroom studies are combined with actual field studies in selected

study areas. Field experiences are designed to apply basic geographic concepts and techniques in the study of diverse landscapes, natural and cultural, and the cultural and physical processes shaping them.
Transferable to CSU

GEOG 40 **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 areas of the Americas, Africa, Europe, Asia, the Middle East and the Pacific area.

Transferable to UC or CSU; see counselor for limitations

GEOG 48 **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 human-environment interface.

Transferable to UC or CSU; see counselor for limitations

**GEOGRAPHY, PHYSICAL
(PGEOG)**

PGEOG 1 **3.0 units**

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 **1.5 units**

Physical Geography Lab

18 hours lecture, 36 hours laboratory

Prerequisite: PGEOG 1

Corequisite: PGEOG 1

Grading: letter grade or pass/no pass

Physical Geography Laboratory emphasizes the practical application of concepts presented in Physical Geography Lecture, including the distribution and relationships of environmental elements in Earth's atmosphere, lithosphere,

hydrosphere, and biosphere, including weather, climate, water resources, landforms, soils, natural vegetation and wildlife. Focus is on systems and cycles of the natural world including the roles and interactions of humans with Earth's environment. Physical Geography Lab introduces the student to the tools and methods used in Geography and may offer field study opportunities. This class is designed for Geography majors.

Transferable to CSU

PGEOG 2 **3.0 units**

Weather and Climate

54 hours lecture

Grading: letter grade or pass/no pass

This is an introductory science course developed by the American Meteorological Society with support from the National Science Foundation. This course examines the physical properties of the atmosphere, radiation heating and cooling, precipitation, clouds, weather disturbances, climate controls, and climate change. There is an emphasis on the analysis and forecasting of weather using real-time data from satellites, weather charts/maps, and other remote sensing platforms.

Transferable to UC or CSU; see counselor for limitations

**GEOLOGY
(GEOL)**

GEOL 1 **4.5 units**

General Physical Geology

63 hours lecture, 54 hours laboratory

Grading: letter grade or pass/no pass

This is a class that covers the materials and structure of the Earth and the physical processes by which it has been and is being changed. It is a general physical science course for liberal arts students and a beginning course for geology majors. Included with the class is a required one-day, Saturday or Sunday, field trip to acquaint students with the local geology.

Transferable to UC or CSU; see counselor for limitations

GEOL 1H **4.5 units**

Honors General Physical Geology

63 hours lecture, 54 hours laboratory

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This is a class that covers the materials and structure of the Earth and the physical processes by which it has been and is being changed. It is a general physical science course for liberal arts students and a beginning course for geology majors. Included with the class is a required one-day, Saturday or Sunday, field trip to acquaint students with the local geology.

Transferable to UC or CSU; see counselor for limitations

GEOL 2**3.0 units****General Geology, Physical**

54 hours lecture

Grading: letter grade or pass/no pass

This is a class that covers the materials and structure of the Earth and the physical processes by which it has been and is being changed. It is a general physical science course for liberal arts students and a beginning course for geology majors.

Transferable to UC or CSU; see counselor for limitations

GEOL 2F**1.0 unit****Geology Field Trips**

23 hours lecture

Corequisite: GEOL 1 or 2

Grading: letter grade or pass/no pass

This is a field trip class offering three single-day field trips, including the San Andreas Fault, Palos Verdes Hills and the Santa Ana Mountains-Dana Point. The purpose of these trips is to acquaint students with the local geology and associated environmental problems. This class does not fulfill the requirement for a laboratory science.

Transferable to UC or CSU; see counselor for limitations

GEOL 2L**1.5 units****General Geology, Physical Geology Lab**

18 hours lecture, 36 hours laboratory

Prerequisite: GEOL 2 (may be taken concurrently)

Grading: letter grade or pass/no pass

This class provides laboratory exercises in identification of rocks and minerals, an introduction to geologic time and dating techniques, reading and interpretation of topographic maps and aerial photographs, study of geologic structures, faults and geomorphology.

Transferable to UC or CSU; see counselor for limitations

GEOL 3**4.5 units****Historical Geology**

72 hours lecture, 45 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of earth history through an analysis of the fossil and rock record. 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**4.5 units****Honors Historical Geology**

72 hours lecture, 45 hours laboratory

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course is a study of earth history through an analysis of the fossil and rock record. 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**2.0 units****Field Geology**

27 hours lecture, 27 hours laboratory

Prerequisite: GEOL 1, 2, 2L, 3, 3H or 5 (may be taken concurrently)

Grading: letter grade or pass/no pass

This is a field course to selected locations in the Owens Valley and Death Valley. This course is an excellent opportunity to travel through California and experience many different examples of geology firsthand.

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 you can do to minimize personal damage. Students will explore environmental issues of the Los Angeles basin that are directly related to the earth, such as water supply, pollution and land use. One Saturday field trip is required.

Transferable to UC or CSU; see counselor for limitations

GEOL 7**2.0 units****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

Formerly GEOL 7AD. This course is a field studies course to geologically interesting areas of the west. The emphasis of the course will be to identify clues in the rock and fossil record which indicate past environmental conditions in the Western United States.

Transferable to CSU

GEOL 16**3.0 units****Field Techniques/Geol: So Calif Deserts**

36 hours lecture, 54 hours laboratory

Prerequisite: GEOL 1, 1H, 2 or 5 (may be taken concurrently)

Grading: letter grade or pass/no pass

This is a class designed to expose geology majors and others to the techniques employed by geologists in the field and laboratory. The class includes: geologic map reading and preparation, identification of geologic features in the field, and microscope laboratory techniques. Attendance at two week-end field trips is required.

Transferable to CSU

GEOL 17**2.0 units****Geology of Southern California Deserts**

27 hours lecture, 27 hours laboratory

Prerequisite: GEOL 1, 2, or 5 (may be taken concurrently)

Grading: letter grade or pass/no pass

This is a field trip class offering two weekend 3-day field trips. The purpose of these trips is to acquaint students with the interesting and diverse geologic features of the California Deserts. Not open to students with credit in GEOL 16.

Transferable to UC or CSU; see counselor for limitations

GEOL 18**3.0 units****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, 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

HISTORY**(HIST)****HIST 1A****3.0 units****History: Western (European) Civilization**

54 hours lecture

Grading: letter grade

This course is a broad survey of European civilization and its world significance from pre-history to the end of the Thirty Years War, including Greece, Rome, the Middle Ages, Renaissance and Reformation through the Age of Discovery. Transferable to UC or CSU; see counselor for limitations

HIST 1AH**3.0 units****Honors History of Western European Civ**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course is a broad survey of European civilization and its world significance from pre-history to the end of the Thirty Years War, including Greece, Rome, the Middle Ages, Renaissance and Reformation through the Age of Discovery. Transferable to UC or CSU; see counselor for limitations

HIST 1B**3.0 units****History: Western (European) Civilization**

54 hours lecture

Grading: letter grade

This course, History of Western Civilization, traces European civilization from the end of the Thirty Years War in 1648 to the present, including the French Revolution, the Napoleonic era, the Industrial Revolution, the age of nationalism and imperialism, World Wars I and II, the atomic age, the rise and fall of Soviet power and the post-cold war era.

Transferable to UC or CSU; see counselor for limitations

HIST 1BH**3.0 units****Honors History of Western European Civ**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course, History of Western Civilization Honors, traces European civilization from the end of the Thirty Years War in 1648 to the present, including the French Revolution, the Napoleonic era, the Industrial Revolution, the age of nationalism and imperialism, World Wars I and II, the atomic age, the rise and fall of Soviet power and the post-cold war era. Transferable to UC or CSU; see counselor for limitations

HIST 2B**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**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**3.0 units****Honors World History Since 1500**

54 hours lecture

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 5A**3.0 units****History of England and Great Britain**

54 hours lecture

Grading: letter grade

This class is a survey of British history from antiquity through the reign of Queen Anne (1714). The course focuses on the political, social, religious and intellectual institutions of ancient and medieval English history, with a special emphasis given to the evolution of British political philosophy and law and its impact on European history.

Transferable to UC or CSU; see counselor for limitations

HIST 5B**3.0 units****History of England and Great Britain**

54 hours lecture

Grading: letter grade

This Course is a survey of English history from the accession of George I of Hanover (1714) to the present with an emphasis on the creation and expansion of the British Empire, the Industrial Era, and the collapse of the European hegemony during World Wars I and II. Particular attention will be given to the postwar adjustment of the United Kingdom to the new set of realities that emerged in the second half of the 20th century, including Britain's relationship to the European Community.

Transferable to UC or CSU; see counselor for limitations

HIST 8A**3.0 units****History of the Americas**

54 hours lecture

Grading: letter grade

This course is a comprehensive survey of the Western Hemisphere from the development of its earliest human communities, the subsequent encounters with European civilizations, and the formation of colonial empires. The course focuses on a comparative analysis of the social, economic and political structures of the region through the movement for independence in the nineteenth century.

Transferable to UC or CSU; see counselor for limitations

HIST 8AH**3.0 units****Honors History of the Americas**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course is a comprehensive survey of the Western Hemisphere from the development of its earliest human communities, 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**3.0 units****History of the Americas**

54 hours lecture

Grading: letter grade

This course presents a comprehensive survey of the distinct national identities of the nations of the Western Hemisphere as they developed and matured during the nineteenth and twentieth centuries. The course focuses on a comparative analysis of North and South America as the new nations struggled with economic, political and social issues. This course is recommended for Spanish majors.

Transferable to UC or CSU; see counselor for limitations

HIST 8BH**3.0 units****Honors History of the Americas**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course presents a comprehensive survey of the distinct national identities of the nations of the Western Hemisphere as they developed and matured during the late nineteenth century to present. The course focuses on a comparative analysis of North and South America as the new nations struggled with economic, political and social issues, as well as the international relations in the Western Hemisphere.

Transferable to UC or CSU; see counselor for limitations

HIST 9A**3.0 units****History of China**

54 hours lecture

Recommended Preparation: Eligibility for ENGL 1

Grading: letter grade or pass/no pass

This class is a survey of Chinese history from antiquity to the present with an emphasis on the modern era. Emphasis is given to the evolution of the traditional China, the Chinese way of life, the dynastic cycle, the impact of modernization, the imperial era, and the building of a new society and economic power during the 20th and 21st centuries.

Transferable to CSU

HIST 9B**3.0 units****History of Japan and Korea**

54 hours lecture

Recommended Preparation: Eligibility for ENGL 1

Grading: letter grade or pass/no pass

This class is a survey of Japanese and Korean history from antiquity to the present with an emphasis on the modern era. Particular attention is given to the relationship of both countries to traditional China, the development of a unique way of life in each, and the impact of modernization and the imperial era on these two societies during the 19th, 20th and 21st centuries.

Transferable to CSU

HIST 9C**3.0 units****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 CSU

HIST 10**3.0 units****Hist./Early America (Colonial-Reconstr)**

54 hours lecture

Grading: letter grade

This course is a survey of major political, economic, social, and intellectual trends in the history of the United States from the colonial era through Reconstruction (1877). Attention is given to the collision and creation of cultures during colonization, the development of slavery, the American Revolution and national origins, and the growth and division of the nation before the Civil War. HIST 10 and 11 need not be taken in sequence, if the student desires to take both courses.

Transferable to UC or CSU; see counselor for limitations

HIST 10H**3.0 units****Honors History/Early America**

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**3.0 units****Hist./Modern America (Reconstr-Present)**

54 hours lecture

Grading: letter grade

This course is a survey of major political, economic, social, diplomatic and intellectual trends and events in United States history from the end of Reconstruction (1877) to the present. The course emphasizes the building of the modern industrial society, growing involvement in international relations, the evolution of a multi-ethnic community and social reform movements of the 20th and 21st century. HIST 10 and 11 need not be taken in sequence if the student desires to take both courses.

Transferable to UC or CSU; see counselor for limitations

HIST 11H**3.0 units****Honors History/Modern America**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade

This course is a survey of major political, economic, social, diplomatic and intellectual trends and events in United States history from the end of reconstruction (1877) to present. The course emphasizes the building of the modern industrial society, growing involvement in international relations, the evolution of a multi-ethnic community and social reform movements of the 20th century. HIST 10H and HIST 11H need not be taken in sequence if the student desires to take both courses.

Transferable to UC or CSU; see counselor for limitations

HIST 18**3.0 units****History of Mexico**

54 hours lecture

Grading: letter grade or pass/no pass

This course is a comprehensive survey of the historical and cultural development of Mexico from the pre-Columbian era to the present. The course focuses upon the major intellectual, social and political movements in the formation of modern Mexico.

Transferable to UC or CSU; see counselor for limitations

HIST 25**3.0 units****History of American Woman**

54 hours lecture

Grading: letter grade

This course is a survey of the history of women in America from the pre-colonial period to the present. Emphasis is on the relevant political, economic, intellectual, and social roles filled by American women.

Transferable to UC or CSU; see counselor for limitations

HIST 27A**3.0 units****History of the African-American to 1877**54 hours lecture
Grading: letter grade

This course provides a comprehensive survey of the African-American experience in the United States from the colonial period to the Civil War. Emphasis is placed on African civilization prior to European enslavement, the American institution of slavery and the role of African-Americans during colonial wars. Particular attention is given to contributions of African-Americans to the social, economic and political development of the United States.

Transferable to UC or CSU; see counselor for limitations

HIST 27B**3.0 units****Hist/African-American (Reconstr-Present)**54 hours lecture
Grading: 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 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

HLED 3**3.0 units****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

HEALTH EDUCATION**(HLED)****HLED 4****3.0 units****Women's Health Issues**54 hours lecture
Grading: letter grade or pass/no pass

This course proposes to help women attain an optimal state of health. The adoption of a healthy lifestyle will be examined through topics such as reproductive health issues, sexuality, mental wellness, positive body image and self-esteem, exercise, nutrition, weight management, disease prevention, substance use and addiction, and informed consumerism. Other topics include gender differences in health and mortality and the current status of research on women's health issues.

Transferable to UC or CSU; see counselor for limitations

HLED 5**3.0 units****Men's Health Issues**54 hours lecture
Grading: letter grade or pass/no pass

This course is designed to explore contemporary health issues and how they affect men. A variety of topics will be addressed, including; cardiovascular disease, relationships and sexuality, alcohol and substance abuse, stress, and psychological health. These topics will be examined with a focus on how they influence the wellness of men.

Transferable to UC or CSU; see counselor for limitations

HLED 10**3.0 units****Human Sexuality**54 hours lecture
Grading: letter grade or pass/no pass

This is an introduction to human sexual knowledge, attitudes and behaviors viewed from the biological, psychological, sociological, cultural and historical perspectives. The course provides three units of elective work in the health sciences or sociology. It does not take the place of HLED 2 or 3 which are required for the AA/AS degrees nor is it open for credit to students registered in or with credit in PSYCH 10.

Transferable to UC or CSU; see counselor for limitations

HORTICULTURE

(HORT)

HORT 10A

4.0 units

Greenhouse Management and Operation

36 hours lecture, 108 hours laboratory
Grading: letter grade or pass/no pass

This course will focus on the study of greenhouse structures and operation. Topics will include heating and cooling systems, humidity and watering systems, propagation systems and controls, proper soil mix, fertilizer and injector systems, propagation methods, transplanting, shifting of nursery stock, quality and inventory control, wholesale and retail sales, shipping practices and credit management equal to industry standards. Automation, mechanization and other labor saving equipment and procedures will be discussed. This course also includes field trips.

Transferable to CSU

HORT 10B

4.0 units

Greenhouse Management and Operation

36 hours lecture, 108 hours laboratory
Grading: letter grade or pass/no pass

This course will focus on the study of greenhouse structures and operation. Topics will include heating and cooling systems, humidity and watering systems, propagation systems and controls, proper soil mix, fertilizer and injector systems, propagation methods, transplanting, shifting of nursery stock, quality and inventory control, wholesale and retail sales, shipping practices and credit management equal to industry standards. Automation, mechanization and other labor saving equipment and procedures will be discussed. This course also includes field trips.

Transferable to CSU

HORT 11A

3.0 units

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 this class' requirements.

Transferable to CSU

HORT 11B

3.0 units

Plant Identification: Shrubs

36 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course will focus on the study of shrubs, including identification, growth habits, and ornamental uses in the landscape. Shrubs emphasized will come from the current

California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Test Plant lists.

Transferable to CSU

HORT 11C

3.0 units

Plant Identification: Herbaceous

36 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course will focus on the study of herbaceous plant materials, including identification, growth habits, and ornamental uses in the landscape. Herbaceous plant material emphasized will come from the current California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Test Plants lists.

Transferable to CSU

HORT 11D

3.0 units

Plant Identification: Tropicals

36 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course will focus on the study of tropical plant materials, including identification, growth habits, and ornamental uses in the landscape. Tropical material emphasized will come from the current California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Test Plants lists.

Transferable to CSU

HORT 15A

2.0 units

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 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

2.0 units

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**4.0 units****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

HORT 21**3.0 units****Principles of Landscape Design**

54 hours lecture
 Grading: letter grade or pass/no pass

Students in this course will learn basic landscape design and drafting skills in accordance to industry standards, including landscape symbols and lettering for plant materials, hardscape, irrigation, lighting and electrical, local and state codes. Students will prepare a finished drawing of a new landscape site with cost estimates for materials and labor. This course also includes field trips.
 Transferable to CSU

HORT 26A**4.0 units****Plant Propagation - Spring**

54 hours lecture, 54 hours laboratory
 Grading: letter grade or pass/no pass

This course concentrates on plant propagation and production practices for the Spring season. Emphasis is on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, and plant pest and disease control. Instruction includes an overview of structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment, and regulations pertaining to plant production based on industry standards and trends. This course also includes field trips.
 Transferable to CSU

HORT 26B**4.0 units****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 30**3.0 units****Integrated Pest Management**

54 hours lecture
 Grading: letter grade or pass/no pass

This course will focus on the study of diagnosing pests and diseases of ornamental plants and turf, chemical and biological control and their regulation, local, and state and federal laws pertaining to pesticide application. Students will prepare for the pesticide applicator's exam. This course also includes field trips.
 Transferable to CSU

HORT 202**4.0 units****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**4.0 units****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. Emphasis will be placed on landscape plan layout as well as bidding along with decking and masonry construction, irrigation troubleshooting, design and installation.

HORT 227**2.0 units****Interior Plant Design/Installation/Maint.**

27 hours lecture, 27 hours laboratory
 Grading: 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**0.5 unit****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.

HORT 430**4.0 units****Landscape Maintenance**54 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course prepares students to enhance the function and aesthetic value of public and private landscapes by applying appropriate maintenance techniques. Topics include planting, pruning, watering, soil fertility, pest management, weed control, and landscape maintenance business practices.

HUMAN SERVICES/SOCIAL WORK**(HS)****HS 1****3.0 units****Introduction to Social Work**54 hours lecture
Grading: letter grade or pass/no pass

This course is designed to identify and analyze the history and development of the primary services in urban and rural communities in America. Working in the social work field is explored as a helping process with a wide range of systems and social work knowledge; ethics, values, principles, professional relationships, interviewing and beginning assessment and intervention phases are also examined. The skills and responsibilities of the Social Worker in resolution of psychosocial problems are examined. 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**3.0 units****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 processes involved in the adjustments of people and their families to various disabilities. It includes an in-depth analysis of stereotypes, prejudices and discrimination and the psychological factors involved with limiting persons with disabilities. An overview of the various social services available to persons with disabilities needed to allow them to return to as close to a normal life as possible is given. Transferable to CSU

HS 26**3.0 units****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

HS 40A**3.0 units****Introduction to Addictive Behaviors**54 hours lecture
Grading: letter grade

This course is designed for individuals who wish to expand their overall knowledge of addictive behaviors. Topics covered include the basic causal relationship between alcoholism, drug abuse and addictive personalities. Students will be taught how to identify treatable issues, establish goals and objectives to treat these issues and practice implementing them to determine their effectiveness with both inpatient and outpatient populations. This course is designed to prepare students for level entry positions in the growing human services field. Transferable to CSU

HS 40B**3.0 units****Introduction to Addictive Behaviors**54 hours lecture
Grading: letter grade

This course is designed for individuals who wish to expand their knowledge of addictive behaviors. Topics covered include basic theories of codependency and eating disorders, and the exploration of methods to identify, classify, intervene with and treat clients. This course is designed for persons who are preparing for careers in the rapidly growing human services field. Transferable to CSU

HS 41**3.0 units****Introduction to Chemical Dependency**54 hours lecture
Grading: letter grade

This course takes the student through the history of abuse of alcohol and other mood altering substances. How persons develop the ability to abuse and become addicted to other behaviors, such as food and sex, will also be examined. Psychological, social and physical contributions and outcomes of addictive behavior will be presented. This course is designed

for those students interested in the helping professions, especially those interested in a career in Alcohol and Drug Studies. This course will assist students in preparation for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification tests.

HS 43 **3.0 units**

Case Management: Treatment & Aftercare

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. This course is required for both CAADE and CAADAC certification.

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, with heavy emphasis on the Cognitive Behavioral Therapy Model. 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. It will assist students in preparation for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification exam. HS 45 is required for persons seeking CAADAC certification. This course is an elective for CAADE students. It is also recommended for persons wishing to work in other areas of the Human Services field.

HS 46 **3.0 units**

Physiology & Pharmacology of Drugs

54 hours lecture
Grading: letter grade

This course examines the effects that alcohol and several other psychoactive drugs have on our brain, body and everyday behavior. Issues including drug tolerance, co-occurring 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.

HS 47 **3.0 units**

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.

HS 48 **3.0 units**

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 **3.0 units**

Law and Ethics

54 hours lecture
Grading: letter grade

Topics covered include the applicable laws and ethics relating to case manager/client relationship in a treatment setting. Laws relating to confidentiality, patient rights, assessments, 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.

HS 71AD **2.0 units**

Work Experience - Human Services

18 hours lecture, 74 hours laboratory
Corequisite: Concurrent enrollment in at least one additional course in the discipline.
Grading: letter grade or pass/no pass

This course prepares students to develop work experience objectives, career goals, job interviewing skills, how to write a resume and address employment issues encountered in the workplace. Field placements provide vocational experiences

through direct work experiences in the Alcohol/Drug treatment and Human Services disciplines.
Transferable to CSU

HS 72A **3.0 units**

Fieldwork in Human Services (A)

54 hours lecture

Prerequisite: HS 50 and HS 43

Recommended Preparation: ENGL 105

Grading: letter grade

Formerly HS 72AD. This course covers topics including student role and responsibilities in social service agencies, professional role model, and desirable traits in the human services field. Ethics and ethical dilemmas will be discussed. Emphasis will be placed on setting and achieving three fieldwork objectives and how to solve everyday issues and problems in the workplace. This course also covers guidelines for students to participate up to 125 hours of supervised fieldwork at a pre-approved work site as out of classroom assignments. The purpose of this course is to prepare students for meeting the State certification requirement of supervised fieldwork experience.
Transferable to CSU

HS 72B **3.0 units**

Fieldwork in Human Services (B)

54 hours lecture

Prerequisite: HS 72A

Grading: letter grade

Formerly HS 73AD. This is the second course which further addresses topics relating to fieldwork in social services agencies. Specific topics include professional boundaries, client expectations, interpersonal conflicts in the workplace and cultural diversity. Emphasis will be placed on setting and achieving extended fieldwork objectives and how to solve issues and problems professionally in the workplace. This course also requires students to participate in 125 hours of supervised fieldwork and achieve three work-related objectives at a pre-approved work site as assignments. The purpose of this course is to advance students' professionalism, to increase the opportunity of meeting the State certification requirement of supervised fieldwork experience, and to prepare students for passing the California Association of Alcohol & Drug Educators (CAADE) certification test.

HS 207 **3.0 units**

Development of Helping/Listening Skills

54 hours lecture

Grading: letter grade or pass/no pass

This course is designed for persons who are interested in working in counseling/case manager roles in the human services field. Topics covered include developing techniques for volunteer, peer and para-professionals working in the people-helping fields. Students will develop skills in initiating, attending, responding and personalizing assistance to clients. Small groups will be used to guide students through a learning sequence of listening and helping skills.

HS 242 **3.0 units**

Conflict Resolution/Mediation

54 hours lecture, 18 hours laboratory

Grading: letter grade

This course examines the background, development and methodology of non-violent, non-litigious conflict resolution skills with emphasis on theory and the practice of mediation. This course is designed for students and those working with individuals, groups or staff who deals with interpersonal conflicts in the alcohol & drug treatment community.

HS 252 **3.0 units**

Co Occurring Disorders

54 hours lecture

Grading: letter grade

This course explores understanding mental illness and persons with more than one mental/psychiatric disorder. It introduces students to the various disorders in infancy, childhood, adolescence and adulthood. It will introduce students to co-existing disorders and various diagnosis and treatment techniques used to treat this unique population. Students will tour two different types of mental health facilities, to provide an additional understanding of mental health issues.

HS 255 **3.0 units**

Alcohol & Drug Prevention & Education

54 hours lecture

Grading: letter grade

This course will review the essential components of effective Alcohol & Drug prevention programs. Prevention programs and activities appropriate for the community, school, parents, family, and worksites will be presented. Strategies such as education; public policies; media/information dissemination, ethnic, cultural, gender-specific approaches; and environmental risk reduction and alternatives will be presented and assessed for their application to different target populations.

HS 260 **3.0 units**

Domestic Violence Intervention Strategies

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 ADMINISTRATION

(HSA)

HSA 401 3.0 units

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 3.0 units

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 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, 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

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. These teams study two or more major cultures to determine how these human communities met their basic biological, material, religious and intellectual needs, and experienced both continuity and change through time. This course is part of the Honors Curriculum. This course is not open for credit to students who have completed HUMAN 1, SOCSC 1, or SOCSC 1H. Transferable to UC or CSU; see counselor for limitations

HUMAN 7 3.0 units

American Pluralism and Identity

54 hours lecture
Grading: letter grade or pass/no pass

This course explores the multicultural nature of American society from a Humanities and Social Sciences perspective. The course examines how ethnic groups in America have constructed artistic, literary, musical, philosophical and religious identities based on their traditions and experiences and seeks to understand the United States as a common culture. Using the Social Sciences to compare and contrast the origins, living conditions and experiences of Americas constituent populations, the course analyzes 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

INTERIOR DESIGN

(ID)

ID 1 **3.0 units**

Fundamentals of Interior Design

54 hours lecture

Grading: letter grade or pass/no pass

Fundamentals of Interior Design provides an introduction to the design principles and elements necessary for the planning of interior environments that meet individual, functional, legal and environmental needs. The application of design materials and products used in interior environments will be emphasized. Transferable to CSU

ID 20 **2.0 units**

Interior Design Careers

36 hours lecture

Grading: letter grade or pass/no pass

This course will provide a survey of the interior design profession, industry, related occupations and work sites. This course will emphasize personal, educational and professional qualifications required for entry into the interior design profession. Transferable to CSU

ID 30 **4.0 units**

Applied Color Theory and Design

54 hours lecture, 54 hours laboratory

Grading: letter grade or pass/no pass

This course provides review of basic color and design theory and design application. The review of color theories includes Munsell, Albers, Itten and Ostwald. Interior color exercises are applied to an interior design project. This course also explores psychological implications of design and color forecasting trends. Transferable to CSU

ID 40 **3.0 units**

Advanced CAD for Interior Design

36 hours lecture, 54 hours laboratory

Prerequisite: ID 10

Grading: letter grade

The CAD for Interior Design course will focus on learning the principles and methods of computer graphic applications utilizing CAD. Projects will include computer drafting, a small set of construction documents. Transferable to CSU

ID 45

2.0 units

Codes, Systems & Specifications

18 hours lecture, 54 hours laboratory

Grading: letter grade

The course will study both national and local building codes as they apply to Interior Design (ID). Survey implications of typical building systems, acoustical, energy conservation, accessibility and safety concerns influencing ID solutions. Both drafted plans and written specifications will be required to resolve assigned case studies. Transferable to CSU

ID 55 **3.0 units**

Digital Illustration

18 hours lecture, 54 hours laboratory

Grading: letter grade

Exploration of computer aided rendering and image manipulation techniques of 3D objects and interior spaces. Will include techniques for visual composition and presentation using the processes, technology and terminology of digital media software utilized by the design industry. Transferable to CSU

ID 272 **1.0 unit**

Residential Furnishings

18 hours lecture

Grading: letter grade or pass/no pass

This course provides a practical analysis of furniture design for the residential space. Consideration of furniture function, social use, case studies, design theory and fabrication will be observed. The construction of upholstered furniture and case goods will be evaluated for quality standards. Current trends in interior furniture will be discussed.

JOURNALISM

(JOURN)

JOURN 1A **3.0 units**

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 **3.0 units**

Digital Design and Publication

54 hours lecture

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 **4.0 units**

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 **3.0 units**

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 **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

JOURN 20 **4.0 units**

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

JOURN 25 **3.0 units**

Free-Lance Writing

54 hours lecture

Grading: 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 **3.0 units**

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 **3.0 units**

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 CSU

JOURN 71**2.0 units****Work Experience-Journalism**

18 hours lecture, 74 hours laboratory
 Corequisite: Concurrent enrollment in at least one additional course in the discipline.
 Grading: letter grade or pass/no pass

Formerly JOURN 71AD. This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment or volunteer time directly related to occupational goal or career of interest to the student.
 Transferable to CSU

JOURN 72**3.0 units****Work Experience- Journalism**

18 hours lecture, 149 hours laboratory
 Corequisite: Concurrent enrollment in at least one additional course in the discipline.
 Grading: letter grade or pass/no pass

Formerly JOURN 72AD. This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.
 Transferable to CSU

JOURN 73**4.0 units****Work Experience- Journalism**

18 hours lecture, 225 hours laboratory
 Corequisite: Concurrent enrollment in at least one additional course in the discipline.
 Grading: letter grade or pass/no pass

Formerly JOURN 73AD. This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment and volunteer time directly related to occupational goal or career of interest to the student.
 Transferable to CSU

JOURN 80**4.0 units****Multimedia Newsroom: News**

54 hours lecture, 54 hours laboratory
 Grading: 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**4.0 units****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****Multimedia Newsroom: Profiles**

54 hours lecture, 54 hours laboratory
 Grading: letter grade or pass/no pass

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 83**4.0 units****Multimedia Newsroom: Politics**

54 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**4.0 units****Multimedia Editors: Design**

54 hours lecture, 54 hours laboratory
 Grading: 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**4.0 units****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 aspects of the Viking news website, newspaper and/or City magazine. Transferable to CSU

JOURN 88**4.0 units****Multimedia Editor Training: Management**54 hours lecture, 54 hours laboratory
Grading: 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

KINESIOLOGY, ADAPTED**(KINA)****KINA 1AD****1.0 unit****PE for the Physically Limited**54 hours laboratory
Grading: letter grade

This course is designed to produce a program of individual and group exercises and physical activities that develop motor patterns and perceptual- motor skills, endurance, strength and self-awareness. All activities will be adapted to the interests, capabilities and limitations of each student. Transferable to UC or CSU; see counselor for limitations

KINESIOLOGY, GENERAL**(KING)****KING 2****1.0 unit****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**1.0 unit****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 9**0.5 unit****Badminton**36 hours laboratory
Grading: letter grade

Formerly KING 9AD. This course is designed to provide instruction in the fundamentals of badminton. 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 10**1.0 unit****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**1.0 unit****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 12**1.0 unit****Baseball**54 hours laboratory
Grading: letter grade

Formerly KING 12AD. This course is designed to provide instruction in the fundamentals of baseball. Included will be strategy, rules, and the skills of catch play, hitting and baserunning. Transferable to UC or CSU; see counselor for limitations

KING 14**1.0 unit****Basketball**54 hours laboratory
Grading: letter grade

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 14B**1.0 unit****Basketball**54 hours laboratory
Recommended Preparation: KING 14
Grading: 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

KING 20**1.0 unit****Bowling**54 hours laboratory
Grading: letter grade

Formerly KING 20AD. This course is designed to provide instruction in the fundamentals of bowling. Instruction will include strategy, rules, and the skills of bowling: foot work, ball placement, and grip. Instructional goals will be achieved through participation in practice and league play at a local bowling alley. Transferable to UC or CSU; see counselor for limitations

KING 32**1.0 unit****Golf**54 hours laboratory
Grading: letter grade

Formerly KING 32AD. This course is designed to provide instruction in the fundamentals of golf. Instruction will include strategy, rules, skill development, course management, and etiquette. These goals will be achieved through instruction and play at local 9-hole courses. Transferable to UC or CSU; see counselor for limitations

KING 32B**1.0 unit****Golf**54 hours laboratory
Recommended Preparation: KING 32
Grading: letter grade or pass/no pass

This course provides the study and practice of golf at an intermediate level. Continued instruction in strategy, rules, skill development, course management and golf etiquette

will be included and achieved through instruction and play at local 9-hole courses.
Transferable to UC or CSU; see counselor for limitations

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 courses 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

KING 65**1.0 unit****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 a nd 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 non-sparring 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**1.0 unit****Self-Defense**54 hours laboratory
Grading: letter grade

Formerly KING 66AD. The 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 66B **1.0 unit**

Self Defense

54 hours laboratory

Recommended Preparation: KING 66

Grading: 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 **1.0 unit**

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 70B **1.0 unit**

Soccer

54 hours laboratory

Recommended 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 **1.0 unit**

Softball

54 hours laboratory

Grading: letter grade

Formerly KING 74AD. This course is designed to provide instruction in the fundamentals of softball including strategy, rules, and the skills of throwing, hitting and catching.

Transferable to UC or CSU; see counselor for limitations

KING 76 **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 83 **0.5 unit**

Tennis

36 hours laboratory

Grading: letter grade

Formerly KING 83AD. 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 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 **1.0 unit**

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 88 **1.0 unit**

Track & Field

54 hours laboratory

Grading: letter grade

Formerly KING 88AD. This course covers instruction in the rules, techniques and strategies of track and field.

Transferable to UC or CSU; see counselor for limitations

KING 90 **1.0 unit**

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 **1.0 unit**

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 **1.0 unit**

Sand Volleyball

54 hours laboratory
Grading: letter grade or pass/no pass

This course provides instruction in the basic skills needed to play sand volleyball. Students will learn strategies, rules and etiquette for sand volleyball with an emphasis on individual skills, doubles and six versus six team play. Transferable to UC or CSU; see counselor for limitations

KING 92B **1.0 unit**

Sand Volleyball

54 hours laboratory
Recommended Preparation: KING 92
Grading: 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 **1.0 unit**

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 **3.0 units**

Baseball (Men)

180 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade

This course provides specific conditioning, techniques, strategies and instruction in baseball. The course is designed for men of exceptional ability who wish to participate in intercollegiate baseball. The course fulfills the requirement for a physical education activity and meets the state intercollegiate requirement for conditioning in preparation for competition. Transferable to UC or CSU; see counselor for limitations

KINIA 2AD **3.0 units**

Off-Season Conditioning for Athletes

180 hours laboratory
Grading: letter grade

Formerly KINPF 2AD. This course is designed for any student preparing for intercollegiate athletic competition. The specific physical fitness routines required by the intercollegiate athlete during the off-season 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. Transferable to CSU

KINIA 3AD **3.0 units**

Basketball (Men)

180 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade

This course provides specific conditioning, techniques, strategies and instruction in basketball. The course is designed for men of exceptional ability who wish to participate in intercollegiate, competitive basketball. This course meets the state intercollegiate requirement for conditioning in preparation for competition. Transferable to UC or CSU; see counselor for limitations

KINIA 5AD **3.0 units**

Cross Country (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 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 7AD **3.0 units**

Football (Men)

180 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade

This course provides specific conditioning, techniques, strategies, nutrition for and instruction in football. The course is designed for men of exceptional ability who wish to participate in intercollegiate football. This course meets the health education requirement for Plan B and the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC. Transferable to UC or CSU; see counselor for limitations

KINIA 9AD 3.0 units**Golf (Men)**

180 hours laboratory
 Recommended Preparation: Enroll by Instructor Consent
 Grading: letter grade

This class is designed for men of exceptional ability who wish to compete in intercollegiate athletics. There will be advanced instruction in the rules, techniques and strategies of golf. Transferable to UC or CSU; see counselor for limitations

KINIA 13AD 3.0 units**Soccer (Men)**

180 hours laboratory
 Recommended Preparation: Enroll by Instructor Consent
 Grading: 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. This course meets 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 15AD 3.0 units**Swimming (Men)**

180 hours laboratory
 Recommended Preparation: Enroll by Instructor Consent
 Grading: letter grade

This course provides specific conditioning, techniques, strategies and instruction in the rules of swimming. The course is designed for men of exceptional ability who wish to participate with the intercollegiate swimming team. Transferable to UC or CSU; see counselor for limitations

KINIA 17AD 3.0 units**Tennis (Men)**

180 hours laboratory
 Recommended Preparation: Enroll by Instructor Consent
 Grading: letter grade

A diverse program of intercollegiate athletics for men and women of exceptional ability which fulfills the legal requirement for a physical education activity. 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 3.0 units**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 3.0 units**Basketball (Women)**

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 3.0 units**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 coach in order to improve performance. Try outs, out-of-season conditioning and training will be integral components of the class. Transferable to UC or CSU; see counselor for limitations

KINIA 31AD **3.0 units**

Golf (Women)

180 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade

This class is offered as a part of a diverse program of intercollegiate athletics for women of exceptional ability which fulfills the legal requirement for physical education activity. Transferable to UC or CSU; see counselor for limitations

KINIA 35AD **3.0 units**

Soccer (Women)

180 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade

This course provides specific conditioning, techniques, strategies, nutrition for and instruction in soccer. The course is designed for women of exceptional ability who wish to participate in intercollegiate soccer. This course meets the health education requirement for Plan B and the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC. Transferable to UC or CSU; see counselor for limitations

KINIA 37AD **3.0 units**

Softball (Women)

180 hours laboratory
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 **3.0 units**

Swimming (Women)

180 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade

This course offers instruction in the rules, techniques and strategies of competitive swimming. The course is designed for women of exceptional ability that wish to participate in intercollegiate athletics. Transferable to UC or CSU; see counselor for limitations

KINIA 41AD **3.0 units**

Tennis (Women)

180 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade

This course offers instruction in the rules, techniques and strategies of tennis. 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 43AD **3.0 units**

Track & Field (Women)

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 Track & Field. 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 45AD **3.0 units**

Volleyball (Women)

180 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade

This course is designed to provide the instruction and training for intercollegiate competition in women's volleyball for students of exceptional ability who wish to participate at this level of competition. Transferable to UC or CSU; see counselor for limitations

KINIA 47AD **3.0 units**

Water Polo (Women)

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 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 **1.0 unit**

Aqua Calisthenics

54 hours laboratory
Grading: letter grade

Formerly KINPF 3AD. This course involves instruction and practice in water aerobics 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 **1.0 unit**

Deep Water Aerobics

54 hours laboratory
Grading: letter grade

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 5 **0.5 unit**

Dance Aerobics

36 hours laboratory
Grading: letter grade

Formerly KINPF 5AD. This course is designed for all students who want to perform fitness exercises through the use of dance routines in an effort to enhance flexibility while emphasizing development of strength and endurance.
Transferable to UC or CSU; see counselor for limitations

KINPF 6 **1.0 unit**

Dance Aerobics

54 hours laboratory
Grading: letter grade

Formerly KINPF 6AD. The course will cover the development of strength, muscular endurance, cardiovascular endurance, flexibility, coordination and balance. This will be accomplished by utilizing various cross training activities, calisthenics and dance aerobic movement.
Transferable to UC or CSU; see counselor for limitations

KINPF 8 **1.0 unit**

Circuit Weight Training

54 hours laboratory
Grading: letter grade

Formerly KINPF 8AD. In this course, students receive cardiovascular and strength fitness training in a circuit weight training setting. This course combines the muscle-building benefits of resistance training with a cardiovascular boost to help increase metabolism, build muscle and allow for complete body conditioning.
Transferable to UC or CSU; see counselor for limitations

KINPF 8B **1.0 unit**

Circuit Weight Training

54 hours laboratory
Recommended Preparation: KINPF 8
Grading: letter grade or pass/no pass

This course provides continued cardiovascular and strength fitness training in a circuit weight training setting. This

course combines focus on the muscle-building benefits of resistance training with a cardiovascular boost to help increase metabolism, build muscle and allow for complete body conditioning.
Transferable to UC or CSU; see counselor for limitations

KINPF 10 **1.0 unit**

Stretch & Relaxation

54 hours laboratory
Grading: letter grade

Formerly KINPF 10AD. 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 10B **1.0 unit**

Stretch & Relaxation

54 hours laboratory
Recommended Preparation: KINPF 10.
Grading: letter grade or pass/no pass

This course provides the continued study and 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 12 **1.0 unit**

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. Strength, posture, agility, and flexibility will be improved through the usage of Rip Training, Core Barre, Mat and Stability Ball Pilates training.
Transferable to UC or CSU; see counselor for limitations

KINPF 12B **1.0 unit**

Core Conditioning

54 hours laboratory
Recommended Preparation: KINPF 12
Grading: letter grade or pass/no pass

This course provides the continued understanding and practice of exercise using the anatomical core. Continued improvement of strength, posture, agility, and flexibility will be the focus while utilizing Rip Training, Core Barre, Mat and Stability Ball Pilates training.
Transferable to UC or CSU; see counselor for limitations

KINPF 14**1.0 unit****Yoga**

54 hours laboratory

Grading: 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 17**1.0 unit****Jogging**

54 hours laboratory

Grading: 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**1.0 unit****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.

Transferable to UC or CSU; see counselor for limitations

KINPF 18**1.0 unit****Triathlon Training**

54 hours laboratory

Recommended Preparation: KING 76

Grading: 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 18B**1.0 unit****Triathlon Training**

54 hours laboratory

Recommended Preparation: KINPF 18

Grading: letter grade or pass/no pass

This course provides the study of a nd 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**1.0 unit****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**1.0 unit****Physical Fitness**

54 hours laboratory

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 in the areas of muscular strength and endurance, aerobic fitness, flexibility, and body composition.

Transferable to UC or CSU; see counselor for limitations

KINPF 22B**1.0 unit****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 **1.0 unit**

Cycling Conditioning

54 hours laboratory

Grading: letter grade or pass/no pass

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 CSU

KINPF 41 **0.5 unit**

Swimming Fitness

36 hours laboratory

Grading: letter grade

Formerly KINPF 41AD. Swim fitness is part of the physical fitness program. The program consists of swimming and related circuit training exercises.

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 cardio-respiratory 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 48 **1.0 unit**

Swim Fitness/Polo

54 hours laboratory

Grading: letter grade

Formerly KINPF 48AD. This course provides conditioning and instruction in the rules, techniques and strategies of water polo. The course is designed for student-athletes who are participating with the intercollegiate water polo teams.

Transferable to UC or CSU; see counselor for limitations

KINPF 53 **1.0 unit**

Power Lifting

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 the three Power Lifts and two Olympic Lifts. The class is co-educational but is designed for students who have an interest in this specialized weight lifting genre. Students will be instructed how to perform the bench press, squat, and dead lift which considered the three base Power Lifts. Proper technique will be a major emphasis with a high importance placed on students lifting weight totals that are within a safe capacity of their individual limits. In addition, the performance of the two Olympic Lifts, the snatch and the clean and jerk will be covered. Students will work cooperatively in small groups and will be placed together according to each's level of expertise and strength capacity.

Transferable to UC or CSU; see counselor for limitations

KINPF 53B **1.0 unit**

Power Lifting

54 hours laboratory

Recommended Preparation: KINPF 53

Grading: letter grade or pass/no pass

This course provides continued study of and practice in power lifting. Topics that will be examined are bench press, squat, and dead lift with proper technique as a major emphasis.

Transferable to UC or CSU; see counselor for limitations

KINPF 54 **1.0 unit**

Weight Training

54 hours laboratory

Grading: letter grade

Formerly KINPF 54AD. 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**1.0 unit****Weight Training**

54 hours laboratory

Recommended Preparation: KINPF 54

Grading: letter grade or pass/no pass

This course continues to provide study and practice in a variety of weight lifting techniques. 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 self-evaluation, 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 UC or CSU; see counselor for limitations

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 CSU

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****3.0 units****Introduction to Kinesiology**

54 hours lecture

Grading: letter grade

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 subdisciplines 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**3.0 units****Lifetime Wellness Principles**

54 hours lecture

Grading: letter grade

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 self-awareness. The course promotes personal, family and community wellness.

Transferable to CSU

KINPP 5**3.0 units****Sports Appreciation**

54 hours lecture

Grading: letter grade

This class will explore sports and its role in society. Topics will include a survey of a variety of sports and spectator appreciation. The class will explore careers in amateur and professional sports organizations.

Transferable to CSU

KINPP 7**3.0 units****Intro to Community Recreation**54 hours lecture
Grading: letter grade

This course is designed for recreation majors and non-majors. This is a general orientation to the field of recreation and parks services. Included is a history of the development of the recreation profession, and a survey of recreation and leisure services. The course also includes a description and interpretation of recreation as a form of community service, and the nature, scope, and significance of leisure and recreation as a social force in contemporary society. The role of the professional leader in a variety of settings is emphasized. Transferable to CSU

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**3.0 units****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**2.0 units****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 CSU

KINPP 13**1.0 unit****Dance Aerobics-Professional Preparation**9 hours lecture, 36 hours laboratory
Grading: letter grade

This course is designed to prepare students to teach dance aerobics. The teaching progression for dance aerobics, music selection and lesson planning are topics covered in this course. Transferable to UC or CSU; see counselor for limitations

KINPP 14**3.0 units****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 CSU

KINPP 15**3.0 units****Sports Officiating (Fall)**36 hours lecture, 54 hours laboratory
Grading: letter grade

The course provides theory and practice in officiating intramural, college, and high school Fall/Winter sports. This course is open to all and is designed for students seeking professional preparation to be able to teach, coach and/or officiate fall/winter sports. Students will participate as actual game officials during intramural competition. Transferable to UC or CSU; see counselor for limitations

KINPP 17**3.0 units****Sports Officiating (Spring)**36 hours lecture, 54 hours laboratory
Grading: letter grade

The course provides theory and practice in officiating intramural college and high school Winter/Spring sports. This course is open to all and is designed for students seeking professional preparation to be able to officiate Winter/Spring sports. Students will participate as actual game officials during intramural competition. Transferable to UC or CSU; see counselor for limitations

KINPP 19**2.0 units****Theory of Football**18 hours lecture, 54 hours laboratory
Grading: letter grade

This course is open to all students seeking professional preparation in elementary and intermediate instruction and practice in scouting, film analysis, use of equipment and safety procedures for football. This course is an introduction to the organization and administration of youth football programs. Transferable to UC or CSU; see counselor for limitations

KINPP 23**3.0 units****First Aid and Safety**54 hours lecture
Grading: letter grade

Formerly PEPP 23. This 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 70A**3.0 units****Exercise Science & Fitness Assessment**54 hours lecture
Recommended Preparation: BIO 60 and KINPP 12
Grading: letter grade

This course is designed to provide the theoretical knowledge necessary to prepare for the American Council on Exercise National 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 ACE certification. (KINPP 70B)
Transferable to CSU

KINPP 70B**3.0 units****Fitness Program Design & Instruction**54 hours lecture
Recommended Preparation: KINPP 70A
Grading: letter grade

This course is designed to provide the student with the theoretical knowledge and practical skills needed to prepare for the American Council on Exercise National 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 ACE certification. (KINPP 70A)
Transferable to CSU

KINPP 200**3.0 units****Introduction to Therapeutic Massage**36 hours lecture, 54 hours laboratory
Grading: letter grade

This foundation course introduces students to the history, science and practice of massage therapy. This course provides students theoretical, practical and preliminary experience in massage therapy. Topics include basic anatomy and physiology as they relate to massage therapy, as well as professional standards expected of massage therapists. Students practice giving massages using beginning strokes and proper sanitation, hygiene, and body mechanics.

KINPP 201**3.0 units****Therapeutic Massage II**36 hours lecture, 54 hours laboratory
Grading: letter grade

This course focuses on massage applications with therapeutic and rehabilitative techniques. Students will analyze and evaluate anatomical structures and assess common pathology. The course includes intermediate massage theory, methods and procedures of soft tissue techniques, and contraindications. Applications introduced include deep tissue, postural realignment, craniosacral motion and aromatherapy. Special attention is given to palpatory skills.

KINPP 203**3.0 units****Kines and Musculoskeletal Foundations**54 hours lecture
Grading: letter grade

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 205**3.0 units****Integrative Therapeutic Massage**45 hours lecture, 45 hours laboratory
Prerequisite: KINPP 201
Grading: letter grade

This course covers traditional Chinese medicine and massage for special populations. Theories of mind/body connection drawn from recent scientific research will be incorporated

with Shiatsu, Tai Chi, Tuina, acupressure and other Asian bodywork therapies. Students will develop treatment plans and perform indicated techniques for selected special populations, such as prenatal, geriatric, HIV/AIDS, and cancer.

KINPP 207 **4.0 units**

Massage and Bodywork Clinical Practicum

54 hours lecture, 54 hours laboratory

Prerequisite: KINPP 201

Grading: letter grade

This course provides the clinical practice for massage therapy. Students receive the practical experience of giving a professional massage, while working with the public, under supervision of the instructor. Students will focus on advanced therapeutic massage techniques, business practices, massage marketing, ethics, and clinic procedures for the massage experience.

KINPP 211 **1.0 unit**

Chair Massage

18 hours lecture, 18 hours laboratory

Prerequisite: KINPP 201

Grading: letter grade

This course will focus on the techniques and practice of chair massage. Topics include physiological effects, related anatomy, contraindications, body mechanics, ethics, hygiene and sanitation standards.

KINPP 213 **2.0 units**

Sports Massage

18 hours lecture, 54 hours laboratory

Prerequisite: KINPP 201

Grading: letter grade

This course specifically covers massage techniques and evaluation procedures for providing massage to athletes. Focus will be on anatomy and sport as it relates to muscle movement, common sports injuries, basic postural analysis, contraindications, and sport massage techniques.

KINPP 230 **3.0 units**

Fieldwork Observation in Kinesiology

36 hours lecture, 54 hours laboratory

Prerequisite: KINPP 70B

Grading: letter grade

This course is designed to provide students in the Kinesiology Major with practical experience in the field of kinesiology. Students will be expected to participate in a minimum number of hours in a supervised fieldwork setting. Emphasis is placed on, but not limited to, client 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.

LEARNING AND ACADEMIC RESOURCES

(LEARN)

LEARN 11

3.0 units

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

LEARN 11H

3.0 units

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 CSU

LEARN 610**0.0 unit****Basic Study Skills Laboratory**

54 hours laboratory

Grading: LBCC Non-Graded Course

This is a non-credit course in basic study skills. This course covers a variety of basic learning and study skills including note-taking, test-taking, memory enhancement and time management. Participation schedule will vary.

LEARN 650**0.0 unit****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.

LEARN 811**1.0 unit****Introduction to Study Skills**

18 hours lecture

Grading: pass/no pass

This is an introductory learning strategies and techniques course designed to assist students in understanding basic study skills and information along with their direct and practical application in preparation for college-level coursework. The goal is for students to enhance their academic effectiveness. Course topics will include: college expectations, time management, memory and concentration, study reading, listening and note-taking, and test-taking.

LIBRARY**(LIB)****LIB 1****2.0 units****Library and Information Resources**

36 hours lecture

Grading: letter grade or pass/no pass

This course teaches basic college-level research skills necessary for effective use of traditional and new information resources. Research strategies and evaluation of information resources are emphasized. The course covers the different levels, types, and formats of information, including the Internet. Transferable to UC or CSU; see counselor for limitations

LIB 2**1.0 unit****Web Databases**

18 hours lecture

Grading: letter grade or pass/no pass

This course is a hands-on introduction to online 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

LIB 3**3.0 units****Information Competency**

54 hours lecture

Grading: letter grade or pass/no pass

This course is designed to help students become information-literate citizens in the seamless and global information world. This course encompasses library literacy, information technology literacy, and Internet literacy. It encourages thought transformation, intelligent reasoning, research skills, and a new understanding of the world, including an appreciation of diversity. The course has a well-balanced structure in practices and theories with lectures, active interaction and participation in class and online, computer lab activities, and written research assignments.

Transferable to UC or CSU; see counselor for limitations

LIB 201**3.0 units****Introduction to Cataloging**

54 hours lecture

Prerequisite: LIB 3

Grading: letter grade or pass/no pass

This course is designed to teach students the valuable skills necessary to become qualified technicians. Topics will include: cataloging principles and procedures including descriptive and subject cataloging, classification systems, Machine Readable Cataloging (MARC) formats, bibliographic utilities, authority and bibliographic verification and control.

LIB 202**3.0 units****Introduction to Access Services**

54 hours lecture

Prerequisite: LIB 3

Grading: letter grade or pass/no pass

This course is designed to teach students the valuable skills necessary to become qualified technicians. This course focuses on the major functions of library public and access services and topics will include: circulation management, collection maintenance, supervision of staff, confidentiality, intra and interlibrary loan, reserve collections, copyright laws, statistical design and compilation.

LIB 203**3.0 units****Introduction to Acquisitions**

54 hours lecture

Prerequisite: LIB 3

Grading: letter grade or pass/no pass

This course is designed to teach students the valuable skills required to become qualified library technicians. This course focuses on the goals and functions of acquisitions and the topics will include the basics of acquiring library materials, the financial management of materials budgets, vendors, and ethical considerations. Visitations to other libraries or information research centers are required.

LIB 204**3.0 units****Introduction to Reference Services**

54 hours lecture

Prerequisite: LIB 3

Grading: letter grade or pass/no pass

This course is designed to teach students the valuable skills necessary to become qualified library technicians. This course introduces students to widely used print, non-print, electronic and online sources in a variety of settings, and develops question-negotiation reference skills and search strategies. The topics will include the information needs of library users and the students will be empowered to function competently in the Information Age.

LINGUISTICS**(LING)****LING 1****3.0 units****Linguistics 1**

54 hours lecture

Recommended Preparation: ENGL 105 or ESL 34

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 CSU

MEDICAL ASSISTING**(MA)****MA 270****3.0 units****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****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**3.0 units****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 284A**2.0 units****Medical Assisting Clinical Practicum**

108 hours laboratory

Prerequisite: MA 280

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 clinical aspects of Medical Assisting. This course is typically offered for eight weeks.

MA 284B**2.0 units****Med Asst Administrative Practicum**

108 hours laboratory
 Prerequisite: MA 270
 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 aspects of Medical Assisting. This course is typically offered for eight weeks.

MA 286**4.0 units****Medical Assisting Combined Practicum**

216 hours laboratory
 Grading: pass/no pass

This course is designed to give the student work experience in selected health care offices and/or clinics. Students in this course will experience the administrative as well as the clinical aspects of Medical Assisting.

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**3.0 units****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.

MATHEMATICS**(MATH)****MATH 27****3.0 units****Probability and Statistics for Elementary Teachers**

54 hours lecture, 18 hours laboratory
 Prerequisite: MATH 130, 130B, or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade, and MATH 120 or one year high school geometry or Qualification through the 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 set theory, combinations, permutations, logic, probability and statistics.
 Transferable to UC or CSU; see counselor for limitations

MATH 28**3.0 units****Mathematics for Elementary Teaching I**

54 hours lecture, 18 hours laboratory
 Prerequisite: MATH 130, 130B, or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade, and MATH 120 or one year high school geometry or Qualification through the LBCC assessment process.
 Recommended Preparation: Eligibility for ENGL 1
 Grading: letter grade

This course is one of several courses designed for prospective elementary teachers. Topics that are covered include pattern recognition, problem solving, sets, numeration systems, number theory and models and algorithms for operations with whole numbers, integers, rational numbers and decimals. Writing is emphasized throughout the course.
 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 120 or one year of high school geometry.
 Grading: letter grade

This course is designed for prospective elementary teachers. Topics include basic geometric vocabulary and notation, constructions, congruence, similarity, measurement, the Pythagorean Theorem, motion geometry and tessellations. The problem solving process is emphasized throughout the course. The course incorporates group activities and exploration of topics with manipulatives. Writing is emphasized throughout the course.
 Transferable to UC or CSU; see counselor for limitations

MATH 37**3.0 units****Finite Mathematics**

54 hours lecture

Prerequisite: MATH 130, 130B or one year high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the LBCC assessment process for Math.

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 37H**3.0 units****Honors Finite Mathematics**

54 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 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**3.0 units****Trigonometry**

54 hours lecture

Prerequisite: MATH 130, 130B, or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade, and MATH 120 or one year high school geometry or Qualification through the 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 45**4.0 units****College Algebra**

72 hours lecture

Prerequisite: MATH 130, 130B or one year high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the LBCC assessment process for Math.

Grading: letter grade

This course covers advanced algebra topics, including linear, quadratic, polynomial, exponential and logarithmic functions; graphs of functions; inverse functions; systems of equations and inequalities; the Binomial Theorem; and

conics. A graphing utility is required for this course. Students preparing for MATH 60 should take MATH 50 instead. This course is not open for credit to students registered in or with credit in MATH 50.

Transferable to UC or CSU; see counselor for limitations

MATH 47**3.0 units****Calculus for Business**

54 hours lecture

Prerequisite: MATH 45 or 50

Grading: letter grade or pass/no pass

This course is a study of differentiation of functions of one and several variables, optimization methods, integration of functions of one variable, exponential and logarithmic functions. This course will be appropriate for students who wish to pursue a career in business and economics.

Transferable to UC or CSU; see counselor for limitations

MATH 50**5.0 units****Precalculus Math**

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 50H**5.0 units****Honors Precalculus**

90 hours lecture

Prerequisite: MATH 40 or Qualification through the LBCC assessment process for MATH and Qualification for the Honors program.

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. Eligibility for the Honors Program is required for enrollment.

Transferable to CSU

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**5.0 units****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 or Qualification through the LBCC assessment process for Math.

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 60H**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 or Qualification through the LBCC assessment process for Math & 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**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 Equations, Polar Graphs, Sequences and Series. Transferable to UC or CSU; see counselor for limitations

MATH 70H**5.0 units****Honors Second Calculus Course**

90 hours lecture

Prerequisite: MATH 60 and Qualification for the Honors program.

Grading: letter grade

This course is the second in the calculus sequence. Topics include Differential Equations, Applications of Integration, Integration Techniques, Improper Integrals, Sequences and Series, Parametric Equations and Polar Graphs. Transferable to UC or CSU; see counselor for limitations

MATH 80**5.0 units****Third Calculus Course**

90 hours lecture

Prerequisite: MATH 70

Grading: letter grade

This course serves as the third course in the calculus sequence. Topics include vectors and the geometry of space, vector functions, partial derivatives, multiple integrals and vector calculus.

Transferable to UC or CSU; see counselor for limitations

MATH 84**5.0 units****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**5.0 units****First Course in Algebra**

90 hours lecture

Prerequisite: Qualification through the LBCC assessment process for Math or MATH 815.

Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course. Grading: letter grade or pass/no pass

This is the first course in algebra. Topics in this course include solving linear equations and inequalities in one variable; graphing linear equations and inequalities in two variables; solving systems of linear equations; factoring; performing operations on polynomials, rational expressions, and radical

expressions; and solving rational, radical, and quadratic equations. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may take either MATH 110 or Math 110A and Math 110B to fulfill the course requirement.

MATH 110A **3.0 units**

First Course in Algebra-Part 1

54 hours lecture, 18 hours laboratory
Prerequisite: Qualification through the LBCC assessment process for Math or MATH 815.
Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.
Grading: letter grade or pass/no pass

This is the first of a two-semester sequence of the first course in algebra. Topics include solving linear equations and inequalities in one variable, graphing linear equations and inequalities in two variables, solving systems of linear equations, and simplifying polynomial and exponential expressions. Application problems are solved throughout the course. Group activities are incorporated within the lab portion of the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may receive credit for either MATH 110 or 110A and 110B.

MATH 110B **3.0 units**

First Course in Algebra-Part 2

54 hours lecture, 18 hours laboratory
Prerequisite: MATH 110A
Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.
Grading: letter grade or pass/no pass

This is the second of a two-semester sequence of the first course in algebra. Topics include factoring, simplifying rational and radical expressions, solving rational and radical equations, and solving quadratic equations. Application problems are solved throughout the course. Group activities are incorporated within the lab portion of the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may receive credit for either MATH 110 or Math 110A and 110B.

MATH 115 **4.0 units**

Applied Math

72 hours lecture
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 **4.0 units**

Geometry

72 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 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 125 **6.0 units**

Stat Path

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 Algebra (Math 110) and Applied Mathematics (Math 115). The idea is to give stronger students an accelerated 1-semester alternative to the current 2-semester Math 110/115 sequence. 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 basic rational, and radical equations; graphing lines and parabolas; basic geometric and trigonometric concepts and applications, and basic statistics, counting and probability concepts. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center.

MATH 130 **5.0 units**

Intermediate Algebra

90 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.
Recommended Preparation: Students who have not met the

reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.

Grading: letter grade or pass/no pass

This course continues the study of algebra in preparation for transfer level courses. Topics include polynomial, algebraic, quadratic, exponential and logarithmic functions; graphing; systems of equations and inequalities; factoring; rational expressions and equations; and roots, radicals and complex numbers. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center.

MATH 130A

3.0 units

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.

Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.

Grading: letter grade or pass/no pass

This is the first of a two-semester sequence of intermediate algebra. This course continues the study of algebra in preparation for transfer level courses. Topics include solving linear equations and inequalities; graphing functions and inequalities; solving systems of equations and inequalities; factoring; and solving rational equations. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may receive credit for either Math 130 or 130A and 130B.

MATH 130B

3.0 units

Intermediate Algebra, Part B

54 hours lecture

Prerequisite: MATH 130A

Grading: letter grade or pass/no pass

This is the second of a two-semester sequence of intermediate algebra. This course continues the study of algebra in preparation for transfer level courses. Topics include radicals and complex numbers; quadratic functions; exponential and logarithmic functions; and conic sections. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may receive credit for either Math 130 or 130A and 130B.

MATH 140

6.0 units

Algebra Readiness

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

0.0 unit

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

4.0 units

Modern Arithmetic

72 hours lecture

Grading: pass/no pass

The topics covered in this course include operations on whole numbers, fractions, and decimals; ratios and proportions; and percent problems. Application problems are solved throughout the course. This course is not applicable for degree credit.

MATH 815

4.0 units

Preparation for Algebra

72 hours lecture

Grading: pass/no pass

The topics covered in this course include the order of operations, operations with integers, the solution of linear equations, an introduction to graphing, operations with polynomials, and an introduction to the properties of exponential expressions. Applications of algebraic concepts are included throughout the course. This course is not applicable for degree credit. Students are required to complete 3 hours of supplemental learning activities in any designated Success Center.

MATH 825**1.0 unit****Culinary Math**

18 hours lecture

Grading: pass/no pass

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.

METAL FABRICATION**(MTFA)****MTFAB 50****4.0 units****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 220A**4.0 units****Basic Metal Layout and Fabrication**

54 hours lecture, 72 hours laboratory

Grading: letter grade or pass/no pass

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 the CTE 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

Corequisite: 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 the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

MTFAB 220C**4.0 units****Power Metalworking Machine Operations**

54 hours lecture, 72 hours laboratory

Corequisite: 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**4.0 units****CNC Metal Fabrication Systems**

54 hours lecture, 72 hours laboratory

Corequisite: 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

Formerly SHMET 221. 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

Formerly SHMET 223. 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**3.0 units****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**2.5 units****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**2.5 units****Intermediate Robotic Welding**

36 hours lecture, 27 hours laboratory

Grading: letter grade

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

Formerly SHMET 421. 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 it will require a completion of 54 lab hours.

MTFAB 423**3.0 units****Metal Fabrication and Layout**

162 hours laboratory

Recommended Preparation: MTFAB 220A or MTFAB 50

Grading: pass/no pass

Formerly SHMET 423. 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 it will require a completion of 162 lab hours.

MUSIC

(MUSIC)

MUSIC 1A 3.0 units

Music Theory I

54 hours lecture

Prerequisite: MUSIC 6

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: 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 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 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 1.0 unit

Musicianship I

54 hours laboratory

Corequisite: MUSIC 6

Grading: 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

3.0 units

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 majors and non-music majors. Transferable to UC or CSU; see counselor for limitations

MUSIC 7

2.5 units

Elementary Voice

36 hours lecture, 36 hours laboratory

Grading: 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

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

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 harmonic-melodic-rhythmic dictation.

Transferable to UC or CSU; see counselor for limitations

MUSIC 10**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**1.5 units****Long Beach City College Viking Choral**

90 hours laboratory
 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**1.5 units****Long Beach City College Viking Singers**

90 hours laboratory
 Grading: letter grade or pass/no pass

This choir is a select ensemble with performances throughout the year. All periods and styles of choral music, especially classical chamber literature, are performed. Transferable to UC or CSU; see counselor for limitations

MUSIC 13AD**1.5 units****College Symphony 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 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, studying and performing standard repertoire for small/chamber orchestra. Transferable to UC or CSU; see counselor for limitations

MUSIC 16**1.0 unit****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 19**2.5 units****Beginning Instruments**

36 hours lecture, 36 hours laboratory
 Grading: letter grade or pass/no pass

Beginning instruments entails instruction in the elementary and intermediate principles of playing woodwind, brass and percussion instruments. This class is not designed for the study of the student's major instrument, but for students who want to learn a new instrument. Reading music is not a requirement, and will be taught in the class. 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 **1.5 units**

Vocal Jazz Ensemble

90 hours laboratory
Grading: letter grade or pass/no pass

The Vocal Jazz Ensemble 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.

Transferable to CSU

MUSIC 24AD **1.5 units**

Vocal Jazz Ensembles

90 hours laboratory
Recommended Preparation: MUSIC 23AD
Grading: letter grade or pass/no pass

This course will focus on small vocal/chamber Jazz repertoire with performances throughout the year. All periods and styles of vocal Jazz ensemble music will be covered and performed as it pertains to small vocal/chamber Jazz ensembles.

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, percussion ensemble, string ensemble, and guitar ensemble.

Transferable to UC or CSU; see counselor for limitations

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 28AD **1.5 units**

Percussion Ensemble

90 hours laboratory
Grading: 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 CSU

MUSIC 30A **3.0 units**

Music History: Antiquity to 1750

54 hours lecture
Recommended Preparation: ENGL 105 or ESL 34 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

MUSIC 30B **3.0 units**

Music History: 1750-Present

54 hours lecture
Recommended Preparation: ENGL 105 or ESL 34 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 **3.0 units**

History of Jazz

54 hours lecture
Grading: letter grade

This one semester course is an overview on the development of the jazz tradition, tracing back to its African roots, and forward through the different styles, including blues, ragtime, swing, bebop, and post-bop. This course also focuses on the

critical cultural and social issues associated with African-Americans and American history, and the role the musical developments played within the context of art as a reflection of society.

Transferable to UC or CSU; see counselor for limitations

MUSIC 33B **3.0 units**

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 35 **3.0 units**

Music of Multicultural America

54 hours lecture

Grading: letter grade or pass/no pass

This course is a comparative and integrative study of the multicultural musical styles of the United States, based on the fundamental principles of music appreciation. 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 **1.5 units**

Wind Ensemble

90 hours laboratory

Recommended Preparation: Prior instrumental experience

Grading: letter grade or pass/no pass

This course involves the study and performance of music composed for 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 **3.0 units**

Appreciation of Music

54 hours lecture

Grading: letter grade or pass/no pass

This course serves as a broad approach to musical literature and its place in the cultural development of western civilization. It is designed for the non-music major.

Transferable to UC or CSU; see counselor for limitations

MUSIC 40H **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 majors.

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

MUSIC 43 **1.0 unit**

Jazz Improvisation Techniques

54 hours laboratory

Prerequisite: MUSIC 6

Grading: letter grade or pass/no pass

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 experience

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 46 **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 the Wind Band.

Transferable to UC or CSU; see counselor for limitations

MUSIC 47AD **1.5 units**

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.
Transferable to CSU

MUSIC 51A **3.0 units**

Beginning Piano 1

54 hours lecture
Grading: letter grade or pass/no pass

This course is an introduction to beginning keyboard skills. It includes basic technique, major and minor five finger patterns, major scales, sight reading and basic chord progressions, as they are encountered in beginning piano music.
Transferable to UC or CSU; see counselor for limitations

MUSIC 51B **3.0 units**

Beginning Piano 2

54 hours lecture
Prerequisite: MUSIC 51A
Grading: letter grade or pass/no pass

In this course students refine and further develop beginning keyboard skills. This includes piano technique, major scales and arpeggios, sight-reading, chord progressions and harmonization skills, as encountered in upper-beginning/early intermediate piano music.
Transferable to UC or CSU; see counselor for limitations

MUSIC 51C **3.0 units**

Intermediate Piano I

54 hours lecture
Prerequisite: MUSIC 51B
Grading: letter grade or pass/no pass

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 **3.0 units**

Intermediate Piano II

54 hours lecture
Prerequisite: MUSIC 51C
Grading: letter grade or pass/no pass

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 **1.5 units**

Jazz Big Band

90 hours laboratory
Recommended Preparation: Prior Instrumental 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.
Transferable to CSU

MUSIC 55AD**2.5 units****Guitar**

36 hours lecture, 36 hours laboratory
 Grading: letter grade or pass/no pass

This course provides beginning instruction in the guitar, using a classical approach to basic technique, musicianship, and repertoire.
 Transferable to UC or CSU; see counselor for limitations

MUSIC 56AD**2.5 units****Intermediate Guitar**

36 hours lecture, 36 hours laboratory
 Prerequisite: MUSIC 55AD
 Grading: letter grade or pass/no pass

This course provides intermediate/advanced instruction in the guitar, using a classical approach to advanced technique, musicianship, ensemble work, and repertoire.
 Transferable to UC or CSU; see counselor for limitations

MUSIC 57AD**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. The Jazz Combos perform 1- 2 times each semester.
 Transferable to CSU

MUSIC 58**1.5 units****College Philharmonia**

90 hours laboratory
 Recommended Preparation: Prior successful 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 60**2.5 units****Pro Tools (Digital Audio Recording/Edit)**

36 hours lecture, 36 hours laboratory
 Grading: letter grade

Formerly MUSIC 60AD. This course provides instruction on the functions and operations of Pro Tools software and a general overview of Pro Tools related hardware. The class instruction provides a hands-on experience through "real-

world" related assignments for students to record, edit and mix digital audio in a computer environment. Although the Pro Tools systems vary in specifications, features and price, the user interface for all systems is consistent and enables the student to translate learned skills to any high-end professional Digital Audio Workstation.
 Transferable to CSU

MUSIC 68**3.0 units****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 71AD**2.5 units****Introduction to Music Technology**

36 hours lecture, 36 hours laboratory
 Grading: letter grade or pass/no pass

This course is a comprehensive introduction to music technology. Historical and current uses of music technology including MIDI are covered. This class also covers basic music notation as it is used in music technology.
 Transferable to CSU

MUSIC 74AD**2.5 units****Solo Vocal Performance (Pop, Jazz, Rock)**

36 hours lecture, 36 hours laboratory
 Recommended Preparation: MUSIC 7
 Grading: letter grade or pass/no pass

This course is a performance class designed to help singers of all ages and talent levels improve their craft by performing in front of a "live" audience. All genres (pop, rock, gospel, rap, classical and jazz) are welcome. Students will learn microphone techniques, work with a professional accompanist and/or prerecorded accompaniment tracks and receive written critiques by the instructor after each performance. All performances are recorded and returned to the student for artistic review.
 Transferable to CSU

MUSIC 77AD**1.0 unit****Studio Performance Techniques**

90 hours laboratory
 Grading: letter grade or pass/no pass

This course is a study of instrumental performance techniques in a recording studio environment through rehearsal and performance of instrumental jazz literature.
 Transferable to CSU

MUSIC 81**3.0 units****Commercial Keyboard**

54 hours lecture

Prerequisite: MUSIC 51A Grading:
letter grade or pass/no pass

Formerly MUSIC 81AD. This course is designed to give students a practical approach to music on piano keyboard instruments, and at the same time, provide avenues for the improvement of keyboard skills such as music styles, harmony, improvisation and reading. Transferable to CSU

MUSIC 82**2.0 units****Sound Reinforcement**

18 hours lecture, 90 hours laboratory

Prerequisite: MUSIC 94

Grading: letter grade or pass/no pass

Formerly MUSIC 82AD. This course provides hands-on instruction in the use of sound reinforcement equipment, including miking techniques for live sound, selection and assembly of live sound systems, and the development of mixing expertise in a live sound venue. Transferable to CSU

MUSIC 84AD**2.5 units****Commercial Songwriting**

36 hours lecture, 36 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of very contemporary songwriting principles and techniques. The course is designed to explore the use of technology in the songwriting process and is appropriate for students who wish to pursue careers as songwriters, artists, producers and/or recording engineers. Students will be introduced to systematic analytical techniques that aid in the developmental skills related to the songwriting process. Transferable to CSU

MUSIC 87AD**1.0 unit****Vocal Jazz Trios, Quintets, Octets**

90 hours laboratory

Recommended Preparation: Prior vocal experience

Grading: letter grade or pass/no pass

This course is a study of challenging vocal arrangements of jazz standards and pop classics. There will be multiple concerts and performances during the semester. Transferable to UC or CSU; see counselor for limitations

MUSIC 88**2.5 units****Small Studio Lab**

36 hours lecture, 36 hours laboratory

Recommended Preparation: One semester of MUSIC 94,
MUSIC 95, MUSIC 96 or MUSIC 98

Grading: letter grade or pass/no pass

Formerly MUSIC 88AD. This course is a study of recording studio techniques. Students will explore the use of synthesizers, drum machines, digital effects units and computers in the small studio environment. The course is appropriate for students who wish to pursue careers as music producers, songwriters, and/or recording engineers. Transferable to CSU

MUSIC 89**3.0 units****History of Rock**

54 hours lecture

Grading: letter grade or pass/no pass

The History of Rock Music will be treated as a chronological study. This allows for brief overviews of society in periods and then illustrates how the music of a particular period either supports or contradicts societal views. Although the main emphasis of study will be from 1955 to the present, brief attention will be given to sixteenth through twentieth century musical history and form as it relates to this period. Transferable to UC or CSU; see counselor for limitations

MUSIC 91AD**2.0 units****Special Studies**

18 hours lecture, 54 hours laboratory

Recommended Preparation: Prior vocal or instrumental
experience.

Grading: letter grade or pass/no pass

This course entails the directed study of special problems in music theory, composition, musicology, performance practice or organization and administration of instrumental or vocal ensembles. Transferable to UC or CSU; see counselor for limitations

MUSIC 92AD**0.5 unit****Applied Music**

36 hours laboratory

Prerequisite: Performance 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

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 94AD**2.5 units****Beginning Recording Techniques**

36 hours lecture, 36 hours laboratory
 Grading: letter grade or pass/no pass

This course offers hands-on instruction for beginners in the use of multi-track recording systems, emphasizing critical listening skills, and the development of a recording project.
 Transferable to CSU

MUSIC 96AD**2.5 units****Advanced Recording Techniques**

36 hours lecture, 36 hours laboratory
 Prerequisite: MUSIC 95AD
 Grading: letter grade or pass/no pass

This class provides hands-on instruction in advanced recording techniques, including the use of a digital multi-track studio, studio mixing techniques, studio etiquette, dealing with musicians, and mixing at the advanced level, including the advanced use of out-board gear.
 Transferable to CSU

MUSIC 98A**1.5 units****Exp: Jazz Ensemble**

90 hours laboratory
 Recommended Preparation: Prior Instrumental 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. This will be expected of all enrolled students.
 Transferable to CSU

MUSIC 98B**1.5 units****Exp: 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. The Jazz Combos perform 1- 2 times each semester. This will be expected of all enrolled students.
 Transferable to CSU

MUSIC 98C**0.5 unit****Exp: Adv. Applied Vocal & Instrumental Music**

36 hours laboratory
 Grading: letter grade

This course continues the skills and outcomes of MUSIC 17A 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. Students will participate in rehearsal and concert performances outside of regular class meetings. Transferable to CSU

MUSIC 271AD**2.0 units****Work Experience-Music**

18 hours lecture, 74 hours laboratory
 Corequisite: Concurrent enrollment in at least one additional course in the discipline.
 Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

MUSIC 272AD**3.0 units****Work Experience-Music**

18 hours lecture, 149 hours laboratory
 Corequisite: Concurrent enrollment in at least one additional course in the discipline.
 Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

MUSIC 273AD**4.0 units****Work Experience-Music**

18 hours lecture, 225 hours laboratory
 Corequisite: Concurrent enrollment in at least one additional course in the discipline.
 Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

NURSING, ASSOCIATE DEGREE NURSING - RN

(ADN)

ADN 11A **2.5 units**

Introduction to Nursing

45 hours lecture

Prerequisite: Hospital agency requires CPR certification for health care providers. 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

ADN 11AL **1.5 units**

Introduction to Nursing Lab

81 hours laboratory

Prerequisite: ANAT 1, PHYSI 1, BIO 2 and ENGL 1. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 11A

Grading: letter grade or pass/no pass

The course includes on-campus lab practice and application of the course content in clinical nursing situations. This lab course aligns with the course content presented in ADN 11A. 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 self-care requisites of intake of air, intake of water, balance of activity and rest. Collaborative problems are added to previously learned information about the nursing process; as well as medication administration, oral and injected. The course places an emphasis on teaching safety and communication for the hospitalized patient.

Transferable to CSU

ADN 11BL **1.5 units**

Health Deviations 1 Lab

81 hours laboratory

Prerequisite: ADN 11A and ADN 11AL. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 11B

Grading: letter grade or pass/no pass

This course includes on-campus lab practice and application of the course content in clinical nursing situations. Skill activities include oral and injected drug administration, respiratory, abdominal and lower leg assessment and related skills.

Transferable to CSU

ADN 12A **2.5 units**

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 **1.5 units**

Health Deviations 2: Lab

81 hours laboratory

Prerequisite: ADN 11B and 11BL. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 12A. You must first enroll in the corequisite course before you attempt to enroll in this class.

Grading: letter grade or pass/no pass

This laboratory course includes both on-campus laboratory practice and application of course content in the live nursing situation. 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 **2.5 units**

Health Deviations 3

45 hours lecture

Prerequisite: ADN 12A and ADN 12AL

Grading: letter grade

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 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 1.5 units

Health Deviations 3: Lab

81 hours laboratory
Prerequisite: ADN 12A and 12AL. Compliance with all clinical agency health and safety policies is required the first day of the course.
Corequisite: ADN 12B. You must first enroll in the corequisite course before you attempt to enroll in this course.
Grading: letter grade or pass/no pass

This course provides on-campus lab practice and application of course content utilizing Orem's Self-Care Theory and the nursing process in the live nursing situation. Skill activities include intravenous therapy, physical assessments, and medical and surgical aseptic practice with related skills. Students assume the professional role of the registered nurse while collaborating and managing the safe care of a multiple patient assignment in the medical areas of the acute care facilities. Communication, teaching and learning, and critical thinking skills are emphasized.
Transferable to CSU

ADN 20A 1.0 unit

Transition to Second Level Nursing

18 hours lecture
Prerequisite: ANAT 1, PHYSI 1, BIO 2, ENGL 105 or ENGL 1 or ESL 34 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 2.5 units

Mental Health

45 hours lecture
Prerequisite: ADN 12B, ADN 12BL or ADN 20A
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 3.0 units

Mental Health Lab

162 hours laboratory
Prerequisite: ADN 12B and ADN 12BL or ADN 20A. Compliance with all clinical agency health and safety policies is required the first day of the course.
Corequisite: ADN 21B
Grading: letter grade or pass/no pass

This laboratory course includes both on and off campus labs that provide an opportunity to practice and apply the theory content in simulated and live nursing situations. The primary emphasis is placed on the application of theory and 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 2.5 units

Advanced Nursing II Role Transition

45 hours lecture
Prerequisite: ADN 22A and ADN 22AL or ADN 322A
Grading: letter grade or pass/no pass

This course provides the opportunity to integrate all previously learned theories and skills. Advanced geriatric content and leadership theory is utilized in a primary or team nursing setting on various hospital shifts, and in the home health settings. The major emphasis is placed on the role transition from student to graduate nurse.
Transferable to CSU

ADN 22BL 3.0 units

Adv. Nursing II-Role Transition Lab

162 hours laboratory
Prerequisite: ADN 22A and ADN 22AL or ADN 322A. Compliance with all clinical agency health and safety policies is required the first day of the course.
Corequisite: ADN 22B
Grading: letter grade or pass/no pass

This laboratory course provides the opportunity to integrate all previously learned theories and skills in the clinical setting. It incorporates advanced geriatric content and leadership

theory in a primary or team nursing setting on various hospital shifts and in the home health setting. The major emphasis is on the role transition from student to graduate novice nurse.
Transferable to CSU

ADN 31A **1.0 unit**

Trends in Nursing A

18 hours lecture
Corequisite: ADN 21A, ADN 21AL, ADN 21B and ADN 21BL
Grading: letter grade or pass/no pass

This course is designed for students to study the trends and issues which effect current nursing practice. The major foci include the evolution of nursing, professional opportunities for the practice of nursing, the legal and ethical relationships in nursing, the economics of health care, the interpersonal relationships among health care professionals and current issues.
Transferable to CSU

ADN 31B **1.0 unit**

Trends in Nursing B

18 hours lecture
Prerequisite: ADN 31A
Corequisite: ADN 22A, ADN 22AL, ADN 22B and ADN 22BL
Grading: pass/no pass

This course is designed to continue the study of the trends and issues in nursing. The major foci includes: Preparation for licensure, communication, development of a personal philosophy of nursing, the professional role of the nurse, professional employment, educational and volunteer opportunities. It also includes critical thinking, safety and collaboration.
Transferable to CSU

ADN 35A **1.5 units**

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 **1.5 units**

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 on-campus/clinical lab practice and testing of required skills in perinatal units, newborn nursery, GYN, and community setting.
Transferable to CSU

ADN 35B **1.5 units**

Pediatric 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 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 **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 provider.
Grading: letter grade

Formerly ADN 245A. This course emphasizes Orem's Self-Care Theory, in particular health deviations as it pertaining to the nursing care of acutely ill and critically ill adults. The content involves the study of critical illness in the adult patient.
Transferable to CSU

ADN 45AL**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. You must first enroll in the corequisite course before you attempt to enroll in this course

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.

Transferable to CSU

ADN 200**0.5 unit****Nursing Skills Adjunct Laboratory**

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 RN program, students approved for re-entry, individuals who are currently licensed as LVNs and/or foreign graduate nurses.

ADN 201**0.5 unit****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**0.5 unit****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**0.5 unit****Nursing Skills Adjunct Laboratory**

27 hours laboratory

Grading: pass/no pass

This laboratory course allows self-paced, individualized instruction in maternal-child and mental health nursing skills with supervised practice to improve performance.

This laboratory builds on skills practiced in ADN 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**0.5 unit****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 licensed as LVNs and/or foreign graduate nurses.

ADN 212**2.0 units****Clinical Practicum I**

108 hours laboratory

Prerequisite: ADN 11A and ADN 11B. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 12A or ADN 12B

Grading: pass/no pass

This course will provide student nurse experiences in approved health care agencies 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. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 21A or ADN 21B

Grading: pass/no pass

This course will provide student nurse experiences in approved health care agencies 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. Compliance with all clinical agency health and safety policies is required the first day of the course.

Corequisite: ADN 22A or ADN 22B

Grading: pass/no pass

This course will provide student nurse experiences in approved health care agencies 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 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 VN 225. ADN 225 and VN 225 are equivalent courses.

ADN 321A**1.5 units****Women's Health & Advanced Obstetrics**

27 hours lecture

Prerequisite: ADN 20A and CPR certification for health care providers.

Grading: letter grade or pass/no pass

This is a 4 week course is designed to fulfill the women's health and advanced obstetrics nursing requirement for the thirty-unit option only. The major focus is nursing care of the adult client in the gynecological surgical units and high-risk obstetrical units, including care of the high- risk infant. It emphasizes the educative supportive role of the nurse.

ADN 321AL**1.5 units****Women's Health & Adv Obstetrics Lab**

90 hours laboratory

Prerequisite: ADN 20A and CPR certification for health care providers.

Corequisite: ADN 31A and ADN 321A

Grading: letter grade or pass/no pass

This course applies the course content in a live nursing situation. It includes on-campus lab practice, simulation, clinical experience, and testing of required skills in perinatal units, and newborn nursery.

ADN 322A**1.5 units****Advanced Nursing I-Adult Critical Care**

27 hours lecture

Prerequisite: ADN 321A and ADN 21B and ADN 21BL and CPR certification for health care providers.

Grading: letter grade or pass/no pass

This course is designed to fulfill the advanced medical/ surgical nursing requirements for the 30-unit option student. The major focus of the course is nursing care of the adult patient in the critical care setting. It emphasizes the educative/ supportive role of the nurse.

ADN 322AL**1.5 units****Adv. Nursing I-Adult Critical Care Lab**

90 hours laboratory

Prerequisite: ADN 321A and ADN 21B and ADN 21BL and CPR certificate for health care providers.

Corequisite: ADN 31B and ADN 322A. You must first enroll in the corequisite course before you attempt to enroll in this class. Grading: letter grade or pass/no pass

This course is designed to fulfill the advanced medical/ surgical nursing requirements for the 30-unit option only. The major focus is nursing care of the adult patient in the critical care setting. This course will emphasize the educative/ supportive role of the nurse.

ADN 430**2.5 units****NCLEX-RN Preparation Course**

45 hours lecture

Prerequisite: Letter of Eligibility to take NCLEX-RN or Authorization to test (ATI) letter from BRN.

Grading: letter grade

This course is designed to prepare the graduate nurse to pass the NCLEX-RN. The content includes medical, surgical, pediatrics, nursing of the child-bearing family, mental health, pharmacology, critical thinking, community health and leadership refresher course.

ADN 600**0.0 unit****Health Care Learning Center**

270 hours laboratory

Corequisite: Current enrollment in a health care program course.

Grading: LBCC Non-Graded Course

This is a non-credit course designed for enhanced assistance for skill attainment in health care programs.

ADN 610**0.0 unit****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**0.5 unit****Preparation for Nursing**

9 hours lecture

Grading: pass/no pass

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.

NURSING, VOCATIONAL NURSING

(VN)

VN 215

6.0 units

Fundamentals of Nursing

63 hours lecture, 135 hours laboratory

Recommended Preparation: READ 883 & 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

1.5 units

Home Health Aide

18 hours lecture, 27 hours laboratory

Prerequisite: Must Possess a valid and current nursing assistant (C.N.A) state 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 required for VN program admission. Students are required to complete 2 additional hours of Supplemental Instruction in a designated Success Center.

VN 222

1.0 unit

Intravenous Therapy & Blood Withdrawal

9 hours lecture, 27 hours laboratory

Prerequisite: VN 255 or VN 265, or licensed as avocational 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 VN 225 are equivalent courses.

VN 230

3.0 units

Common Health Deviations 1

54 hours lecture

Prerequisite: VN 220, VN 225, and BIO 60

Grading: letter grade

Admission to the program is required prior to enrolling in this first clinical course of the vocational nursing program. The course includes the nursing concepts of the nursing process, Orem's self-care theory, disuse syndrome, skin integrity/wound care, activity and rest, altered nutrition, and risk for injury and fluid and electrolytes. Other topics include pathophysiology and nursing care for patients with diabetes, cardiovascular problems and respiratory disorders. 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 hospital or sub-acute setting. The campus lab content includes basic data

collection and health assessment, preparation of nursing care plan, nursing documentation, oxygen therapy, and medication administration. Compliance with all clinical agency policies is required the first day of the course.

VN 235 **3.0 units**

Common Health Deviations 2

54 hours lecture
Grading: letter grade

This course provides the theoretical basis for the provision of nursing care for patients before and after surgical procedures. The course continues to develop the concepts of nursing process and Orem's self-care theory that were introduced in VN 230. Additionally, this course covers the nursing concepts of pain management, body image disturbances, and nutritional support. Other topics include pathophysiology and nursing care for patients with health deviations that include the musculoskeletal system, gastrointestinal system, immune system, urinary-renal system, Hepatic-biliary, and infectious diseases.

VN 235L **3.5 units**

Common Health Deviations 2 Lab

189 hours laboratory
Grading: pass/no pass

This course provides opportunity for nursing students to practice the concepts of medical-surgical units including perioperative nursing care, learned in VN 235. The clinical setting is both medical and surgical and perioperative nursing care units. Topics presented in the campus nursing lab include skills required for care of surgical and medical patients. Compliance with all clinical agency policies is required the first day of the course.

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 **2.0 units**

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 **1.0 unit**

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 **2.0 units**

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 **1.0 unit**

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
Grading: letter grade

This course is the third medical surgical nursing course in the program. Orem's theory of self-care and the nursing process is continued in the study of vocational nursing concepts. Pathophysiology and nursing care of the following health deviations are studied: female reproductive, male urinary & reproductive, sexually transmitted diseases, basic emergent and cardiac deviations, advanced fluid and electrolyte balance, oncological, hematologic, neuro-sensory, thyroid & adrenal disorders.

VN 255L**3.5 units****Common Health Deviations 3 Lab**

189 hours laboratory
 Corequisite: VN 255
 Grading: pass/no pass

This course provides opportunity for nursing students to become more proficient in the nursing care of patients with medical surgical problems. Students practice with staff vocational and registered nurses to develop beginning competency in the role of the vocational nurse in acute care facilities. Compliance with all clinical agency health and safety policies is required the first day of the course.

VN 260**1.5 units****Roles and Responsibilities**

27 hours lecture
 Prerequisite: VN 240
 Grading: pass/no pass

This course is designed to assist the vocational nursing student in the transition to the responsibilities of the graduate vocational nurse. Topics include the ethical, legal, regulatory, leadership, and policy issues that control the practice of vocational nursing in California. Opportunity is provided for career planning, including job skills and application for licensure.

VN 265**3.0 units****Common Health Deviation-4**

54 hours lecture
 Corequisite: VN 255
 Grading: letter grade

This is normally the last clinical course of the vocational nursing program. Orem's theory of self-care and the nursing process is continued. Geriatric and Adult health deviations commonly requiring chronic health care are studied. Other topics include leadership and supervisory roles of vocational nurses in long term and restorative or rehabilitation, and disaster preparation.

VN 265L**3.0 units****Common Health Deviation-4 Lab**

162 hours laboratory
 Corequisite: VN 265
 Grading: pass/no pass

This course provides opportunity for students to apply nursing theory regarding chronic illness to the care of older adults/Geriatric population in long term care settings, such as nursing homes, skilled nursing, sub-acute, and rehabilitation. Compliance with all clinical agency health and safety policies is required the first day of the course.

VN 266**0.5 unit****Nrsg. Skills Practice Lab-Adv.**

27 hours laboratory
 Grading: pass/no pass

Formerly VN 266AD. This course provides self-paced and individualized instruction and practice in a campus nursing laboratory setting. Students are encouraged to attend and practice nursing skills, and prepare for post-graduate nursing which includes blood withdrawal for vocational nursing. This course may be offered in the last semester of the vocational nursing program.

PHILOSOPHY**(PHIL)****PHIL 3****3.0 units****Intro to Issues/Phil, Psych & Religion**

54 hours lecture
 Grading: 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**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 CSU

PHIL 5**3.0 units****History of Modern Philosophy**

54 hours lecture

Recommended Preparation: ENGL 105 or ESL 34X and PHIL 6

Grading: 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 CSU

PHIL 6**3.0 units****Introduction to Philosophy**

54 hours lecture

Grading: letter grade or pass/no pass

This introductory philosophy course explores perennial questions in philosophy. It surveys a number of the main areas within philosophy including metaphysics, epistemology, and ethics, with an emphasis on critical thinking and philosophical analysis.

Transferable to UC or CSU; see counselor for limitations

PHIL 6H**3.0 units****Honors Introduction to Philosophy**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This introductory philosophy course explores perennial questions in philosophy at an honors level. It surveys a number of the main areas within philosophy including metaphysics, epistemology, and ethics, with an emphasis on critical thinking and philosophical analysis.

Transferable to UC or CSU; see counselor for limitations

PHIL 7**3.0 units****Introduction to Ethics**

54 hours lecture

Grading: letter grade or pass/no pass

This course examines meta-ethical issues, moral theories, and the application of moral principles. Topics covered include presuppositions of, and challenges to, moral conversations; moral theories from the history of philosophy; and the application of moral theories to contemporary moral issues. Examples of contemporary moral issues are abortion, euthanasia, animal rights, censorship, terrorism, torture, affirmative action, environmentalism, and capital punishment.

Transferable to UC or CSU; see counselor for limitations

PHIL 7H**3.0 units****Honors Introduction to Ethics**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course examines meta-ethical issues, moral theories, and the application of moral principles. Topics covered include presuppositions of, and challenges to, moral conversations; moral theories from the history of philosophy; and the application of moral theories to contemporary moral issues. Examples of contemporary moral issues are abortion, euthanasia, animal rights, censorship, terrorism, torture, affirmative action, environmentalism, and capital punishment.

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

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**3.0 units****Introduction to Feminist Philosophy**

54 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 11**3.0 units****Critical Thinking**

54 hours lecture

Grading: letter grade or pass/no pass

This class focuses on the improvement of practical reasoning skills. Students will be required to improve their reasoning skills and will learn to detect and avoid common argument fallacies. Students will develop the knowledge and habits needed to make decisions between conflicting ideas and beliefs. Applications are made to both contemporary and perennial issues, such as current political events, the news media, science vs. pseudoscience and capital punishment. Transferable to UC or CSU; see counselor for limitations

PHIL 12**3.0 units****Introduction to Logic**

54 hours lecture

Grading: letter grade or pass/no pass

Introduction to Logic focuses on informal and formal logic. Informal logic will focus on basic concepts in argumentation, the ways that arguments can be erroneous, and various types of inductive reasoning. Formal deductive logic will cover basic concepts of both categorical and sentential logic, including, but not limited to, Venn diagrams, the squares of opposition, truth tables, and natural deduction. All of the tools of formal deductive logic are designed to equip students to assess arguments.

Transferable to UC or CSU; see counselor for limitations

PHIL 14**3.0 units****Philosophy of Religion**

54 hours lecture

Grading: letter grade or pass/no pass

This course examines the philosophical themes within the world's religions. Central questions include: Does God exist? How can God be known? What is God's nature? Why is there evil? Can conflicting religions still be true? The emphasis will focus on understanding and critically analyzing the claims of the world's religions.

Transferable to UC or CSU; see counselor for limitations

PHIL 15**3.0 units****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**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 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 CSU

PHIL 22**3.0 units****Symbolic Logic**

54 hours lecture

Grading: letter grade

This course is an introduction to the formal techniques of evaluating arguments. The emphasis is on developing symbolic techniques, including sentential and quantificational, for representing and evaluating ordinary language arguments.

Transferable to UC or CSU; see counselor for limitations

PHOTOGRAPHY**(PHOT)****PHOT 1****2.0 units****The Photographic Vision**

36 hours lecture

Grading: letter grade or pass/no pass

This course is a speakers and critique series which introduces students to a broad range of photographic visions. The class will also provide the student with the skills necessary to critically evaluate and discuss the photograph. Technical information will be used to give students a deeper understanding of the photographer's vision.

Transferable to CSU

PHOT 10**3.0 units****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 34 and READ 82

Grading: letter grade or pass/no pass

This course surveys the history of photography from its inception to the present digital age. It explores photography as a form of visual communication in historical, socio-political, cultural and aesthetic contexts. Students will develop visual literacy through verbal and written analysis. Museum and gallery field trips are required. This course is appropriate for art majors and non-art majors.

Transferable to UC or CSU; see counselor for limitations

PHOT 31**4.0 units****Basic Photography-Black and White**36 hours lecture, 108 hours laboratory
Grading: letter grade or pass/no pass

This course is an introduction to the breadth of 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; 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**4.0 units****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: One semester of 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 larger format cameras, studio composition and lighting techniques. The course utilizes primarily digitally based techniques with an overview of traditional methods. It is part of the vocational program in photography as well as the general fine arts curriculum.
Transferable to CSU

PHOT 34**4.0 units****Advanced Photography-Applications**36 hours lecture, 108 hours laboratory
Prerequisite: One Semester of PHOT 32 and PHOT 33
Grading: letter grade or pass/no pass

This is a comprehensive studio course for the advanced student of photography. The major emphasis is centered

around continuing to build complex problem solving in studio photography for professional uses.
Transferable to CSU

PHOT 35**3.0 units****Photography for Publication**36 hours lecture, 72 hours laboratory
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: One semester of 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.
Transferable to CSU

PHOT 38**3.0 units****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, 108 hours laboratory
Prerequisite: One semester of PHOT 31 or PHOT 32 or ART 81
Grading: letter grade or pass/no pass

This is a comprehensive occupational course in exterior location photography. The subjects covered will include: documentary, landscape, environmental and product photography for annual reports, stock photography, public relations, advertising and editorial publications.
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

Formerly PHOT 40AD. 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

PHOT 41**4.0 units****Professional Photographic Portfolio**

36 hours lecture, 108 hours laboratory
 Prerequisite: One semester of PHOT 31 or PHOT 32 or ART 81
 Recommended Preparation: PHOT 33
 Grading: letter grade or pass/no pass

Formerly PHOT 41AD. This class is a comprehensive course to give the advanced student in photography an opportunity to develop a professional portfolio. Students will work with the instructor to develop a set of assignments appropriate for their career goals. Emphasis is also placed on digital asset management skills such as: metadata, storage and organization of a digitized photographic archive. Transferable to CSU

PHOT 42**4.0 units****Experimental Photography Laboratory**

36 hours lecture, 108 hours laboratory
 Grading: letter grade or pass/no pass

Formerly PHOT 42. 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****Photoshop and Digital Image Management**

36 hours lecture, 72 hours laboratory
 Recommended Preparation: PHOT 31 or PHOT 32 or ART 81 and ART 41
 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 and the basics of image-bank management. Transferable to CSU

PHOT 71**2.0 units****Work Experience - Photography**

18 hours lecture, 74 hours laboratory
 Corequisite: Concurrent enrollment in at least one additional course in the discipline.
 Grading: letter grade or pass/no pass

Formerly PHOT 71AD. This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to photography. One unit of field work credit will be granted for every 75 hours of paid work or 60 hours of volunteer work per semester. This class includes 1 unit of field work. Transferable to CSU

PHOT 72**3.0 units****Work Experience - Photography**

18 hours lecture, 149 hours laboratory
 Corequisite: Concurrent enrollment in at least one additional course in the discipline.
 Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to photography. One unit of field work credit will be granted for every 75 hours of paid work or 60 hours of volunteer work per semester. This class includes 2 units of field work. Transferable to CSU

PHOT 73**4.0 units****Work Experience - Photography**

18 hours lecture, 225 hours laboratory
 Corequisite: Concurrent enrollment in at least one additional course in the discipline.
 Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to photography. One unit of field work credit will be granted for every 75 hours of paid work or 60 hours of volunteer work per semester. This class includes 3 units of field work. 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 291**1.0 unit****Advanced Photography Laboratory**

54 hours laboratory

Grading: letter grade or pass/no pass

Formerly PHOT 291AD. The course is for advanced students enrolled in the photography program or students who have a background in photography and wish to improve their skills. The course emphasizes practical applications in digital and traditional photographic techniques.

PHOT 681**0.0 unit****Fundamentals of Photography Laboratory**

108 hours laboratory

Grading: LBCC Non-Graded Course

This class is a lab for the beginning photo student or persons who have a background in photography and wish to improve their skills. The emphasis is on practical applications of image processing, including digital and traditional technologies. This class is intended for senior citizens.

PHYSICS**(PHYS)****PHYS 2A****4.5 units****General Physics**

72 hours lecture, 36 hours laboratory

Prerequisite: MATH 40

Grading: letter grade or pass/no pass

This course is an algebra- and trigonometry based general physics course for students not majoring in physics or engineering. It covers kinematics, dynamics, work and energy, momentum, rotational motion, properties of fluids, simple harmonic motion, waves, temperature and ideal gases, heat and thermodynamics.

Transferable to UC or CSU; see counselor for limitations

PHYS 2B**4.5 units****General Physics**

72 hours lecture, 36 hours laboratory

Prerequisite: PHYS 2A

Grading: letter grade or pass/no pass

This course is an algebra- and trigonometry-based general physics course for students not majoring in physics or engineering. The course covers electric charge, Coulomb's Law, electric field, electric potential, capacitance, electric current, D.C. circuits, magnetism, electromagnetic induction, A.C. circuits, electromagnetic waves, geometric optics, the wave nature of light, the Special Theory of Relativity and introduction to Quantum Theory and models of the atom.

Transferable to UC or CSU; see counselor for limitations

PHYS 3A**5.5 units****Physics for Sci. & Eng. - Mechanics**

90 hours lecture, 36 hours laboratory

Prerequisite: MATH 60

Recommended Preparation: PHYS 2A

Grading: letter grade or pass/no pass

This course is the first course of a calculus based sequence for majors in physics, chemistry, mathematics, engineering, astronomy and certain other fields. This course covers kinematics, vectors, dynamics, energy, translational and rotational motion, static fluids, simple harmonic oscillations and mechanical waves.

Transferable to UC or CSU; see counselor for limitations

PHYS 3B**4.5 units****Physics for Sci. & Eng. - E & M**

72 hours lecture, 36 hours laboratory

Prerequisite: PHYS 3A

Grading: letter grade or pass/no pass

This course is the second course of a calculus-based sequence for majors in physics, chemistry, mathematics, engineering, astronomy and certain other fields. The course covers electric charge, Coulomb's Law, electric field, Gauss's law, electric potential, capacitance, electric current, . circuits, magnetic fields, electromagnetic induction, A. circuits, Maxwell's equations and electromagnetic waves.

Transferable to UC or CSU; see counselor for limitations

PHYS 3C**4.5 units****Physics for Sci. & Eng. - Modern Physics**

72 hours lecture, 36 hours laboratory

Prerequisite: PHYS 3A

Grading: letter grade or pass/no pass

This course is part of a calculus-based sequence for majors in physics, chemistry, mathematics, engineering, astronomy and certain other fields. 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**4.0 units****Survey of Chemistry and Physics**

54 hours lecture, 54 hours laboratory

Prerequisite: MATH 110 or MATH 110A or 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.
Transferable to CSU

PHYSIOLOGY (PHYSI)

PHYSI 1 5.0 units

Human Physiology

72 hours lecture, 54 hours laboratory
Prerequisite: ANAT 1 or ANAT 41 or BIO 60
Recommended Preparation: CHEM 2 or one year of high school chemistry.
Grading: letter grade or pass/no pass

This course is the study of the functioning of the human body at the molecular, cellular, organ and organ system level. Laboratory experiments reinforce the concepts and allow students to gain experience with standard physiology equipment. This course is designed for pre-nursing, physical therapy, occupational therapy, physical education and other allied health majors. Students are required to complete 3 hours of activities in a Multidisciplinary Success Center to complete activities and assignments that relate specifically to this course's content.
Transferable to UC or CSU; see counselor for limitations

POLITICAL SCIENCE (POLSC)

POLSC 1 3.0 units

Introduction to Government

54 hours lecture
Grading: letter grade

This course is an introduction to the principles and issues of government and the political process in a diverse society, emphasizing the government of the United States, as well as California state and local governments.
Transferable to UC or CSU; see counselor for limitations

POLSC 1H 3.0 units

Honors Introduction to Government

54 hours lecture
Prerequisite: Qualification for the Honors Program
Recommended Preparation: ENGL 1
Grading: letter grade

This course is an introduction to the principles and issues of government and the political process in a diverse society, emphasizing the U.S. government and California state and local governments.
Transferable to UC or CSU; see counselor for limitations

POLSC 2 3.0 units

Comparative Government

54 hours lecture
Grading: letter grade or pass/no pass

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 3 3.0 units

Issues of American Government

54 hours lecture
Grading: letter grade or pass/no pass

This course is an intensive study of current issues involving the basic concepts of American democracy, public policy, federalism, government finance, pressure groups, legislative, executive and judicial powers, civil rights and liberties, and international politics. This course is highly recommended for political science majors at CSU Long Beach.
Transferable to UC or CSU; see counselor for limitations

POLSC 4 3.0 units

World Politics

54 hours lecture
Grading: letter grade or pass/no pass

This course is an introduction to recent and contemporary international relations, foreign policy-making institutions, and the politics of selected foreign states. This class satisfies one lower division social science requirement for majors in political science, history, sociology, humanities, physical sciences and life sciences at UCLA.
Transferable to UC or CSU; see counselor for limitations

POLSC 9 3.0 units

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**3.0 units****Introduction to Political Science**

54 hours lecture

Grading: letter grade or pass/no pass

This course introduces basic concepts and approaches in the discipline of political science. Theories of political institutions, systems and subsystems are examined. Methods and approaches of political analysis are developed in the study of classical and modern political problems.

Transferable to UC or CSU; see counselor for limitations

POLSC 11**3.0 units****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 48M1**1.0 unit****California State/Local Government**

18 hours lecture

Grading: letter grade

This is a credit by examination course to satisfy the requirement for a course in the principles of California state and local government as required by Title 5 of the California Administrative Code (and as part of the CSU's graduation requirement in American Institutions). The course will provide a survey of the forces shaping the governmental institutions and processes of the State of California and its cities, counties and special districts. Students will prepare for the examination by guiding themselves through course content based on required learning outcomes, objectives, and materials. The examination will be given in the latter part of the fall semester. A three unit, traditional course offering is available in the spring semester (POLSC 48).

Transferable to CSU

PSYCHOLOGY**(PSYCH)****PSYCH 1****3.0 units****Introduction to Psychology**

54 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to scientific exploration of human psychology and behavior. The course includes a survey of the historical, physiological, and social influences on behavior, emphasizing development, learning, motivation, perception, cognition, mental health, individual and cultural differences, as well as the causes of, treatments for, and prevention of mental disorders.

Transferable to UC or CSU; see counselor for limitations

PSYCH 1H**3.0 units****Honors Introduction to Psychology**

54 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course is an introduction to the field of psychological science through consideration of such topics as human development, motivation, emotion, intelligence, learning, thinking, perception, personality, and social relations. It looks at individual differences, including the continuum from optimal functioning to mental disorder. This course includes additional assignments not required in Psych 1.

Transferable to UC or CSU; see counselor for limitations

PSYCH 2**4.0 units****Research Methods for Psychology**

54 hours lecture, 54 hours laboratory

Prerequisite: PSYCH 1

Recommended Preparation: STAT 1

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**3.0 units****Personal and Social Development**

54 hours lecture

Grading: letter grade or pass/no pass

This course involves the application of psychological principles to everyday life, emphasizing how to cope with life's challenges and realize your full potential. Stress is placed on self-awareness, self-management, interpersonal communication and way to improve the quality of interpersonal relationships.

Transferable to CSU

PSYCH 6**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 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

PSYCH 10**3.0 units****Human Sexuality**

54 hours lecture

Grading: letter grade or pass/no pass

This course is an introduction to human sexuality from a psychophysiological perspective. Included are its historic development, cultural, religious and sociological influences, trends, variations, deviations and dysfunctions. It is not open to students registered in or with credit in HLED 10.

Transferable to UC or CSU; see counselor for limitations

PSYCH 11**3.0 units****Social Psychology**

54 hours lecture

Grading: letter grade or pass/no pass

This course is designed to explore how an individual's behavior, thoughts and feelings are influenced by the presence, characteristics and actions of others. 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**3.0 units****Abnormal Psychology**

54 hours lecture

Recommended Preparation: PSYCH 1

Grading: letter grade or pass/no pass

This class surveys abnormal behaviors, including anxiety disorders, mood disorders, schizophrenia and delusional disorders, substance use disorders, gender dysphoria and sexual disorders, eating and sleep disorders, disorders that begin in childhood, 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**3.0 units****Psychology of Personality**

54 hours lecture

Grading: letter grade or pass/no pass

This course defines personality and explains historical and contemporary approaches to explaining and assessing personality similarities and differences among people. Research is presented demonstrating the extent to which personality factors can predict the behavior of individuals. Cross cultural influences on personality development are examined.

Transferable to UC or CSU; see counselor for limitations

PUBLIC ADMINISTRATION**(PUBAD)****PUBAD 1****3.0 units****Introduction to Public Administration**

54 hours lecture

Grading: letter grade or pass/no pass

This is an introductory level course which addresses the principles and practices of public administration in national, state and local government agencies. The course outlines basic organizational patterns, internal management, administrative functions and responsibilities.

Transferable to CSU

READING**(READ)****READ 82****4.0 units****Proficient Reading**

72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for Reading or successful completion (or higher or pass) of READ 883 or ESL 863.

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**4.0 units****Power Reading**

72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for Reading or successful completion (or higher or Pass) of READ 883.

Grading: letter grade or pass/no pass

This course focuses on power reading strategies, analysis of written discourse, and application of flexible reading

techniques to personal, professional, and academic reading. It is designed for those with strong comprehension skills. Students are required to complete 3 hours of Supplemental Learning Assistance activities in designated Success Centers. Transferable to CSU

READ 84 **3.0 units**

Analytical Reading

54 hours lecture

Prerequisite: Reading proficiency met through the LBCC assessment process or successful completion of READ 82 or READ 83.

Grading: letter grade or pass/no pass

This course provides instruction in the strategies needed for logical thinking, critical reading and analysis of argumentative writing. Emphasis is placed on the ability to analyze and evaluate written material by establishing 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 CSU

READ 85 **3.0 units**

Vocabulary Building

54 hours lecture

Grading: letter grade or pass/no pass

This course provides a study of methods to expand general word knowledge and build academic vocabulary across the disciplines emphasizing conceptual development and effective communication. The course is specifically designed to increase personal vocabulary skills and stimulate appreciation of the English language.

Transferable to CSU

READ 880 **4.0 units**

Reading Basics

72 hours lecture

Grading: pass/no pass

This course is an initiation to reading fundamentals for emergent readers. The course creates pathways to literacy and comprehension. Through active reading, decoding and word recognition, and vocabulary development.

READ 881 **4.0 units**

Reading Essentials

72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for Reading or successful completion (Pass) of READ 880, ESL 860 or BAE 601A or BAE 601B

Grading: pass/no pass

This course focuses on essential reading skills and strategies with an emphasis on comprehension, vocabulary, and active reading. Comprehension skills are developed through the use of narrative and expository text. To help gain efficiency with

comprehension, students are required to complete 3 hours during the semester in a Success Center focusing on activities related to the course content.

READ 882 **4.0 units**

Reading Development

72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for Reading or successful completion (Pass) of READ 881.

Grading: pass/no pass

This course develops essential reading concepts. The course focuses on literal and inferential comprehension strategies with continued building of vocabulary skills. Exposure to longer text selections provides opportunities for applying academic reading skills.

READ 883 **4.0 units**

Reading Improvement

72 hours lecture

Prerequisite: Qualification through the LBCC assessment process for Reading or successful completion (Pass) of READ 882.

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.

REAL ESTATE

(REAL)

REAL 78 **3.0 units**

Real Estate Economics

54 hours lecture

Grading: letter grade

This course covers trends and factors affecting the value of real estate, the nature and classification of real estate economics, the development of property, construction and subdivision, economic values and real estate evaluation, real estate cycles and business fluctuations, residential market trends, and real property trends. This course may be used as an elective course for persons seeking a California Real Estate Salesperson license and is a required course for persons seeking a California Real Estate Broker license. Transferable to CSU

REAL 80**3.0 units****Real Estate Principles**

54 hours lecture

Grading: letter grade

This course covers the basic laws and principles of California real estate. This class also provides background and terminology for homeowners, landlords, tenants, persons preparing for advanced study in specialized real estate courses, and those preparing for real estate license exams. This course is one of three courses required for persons seeking a Real Estate Salesperson license and is an elective course for persons seeking a Real Estate Broker license. Transferable to CSU

REAL 81A**3.0 units****Real Estate Practice**

54 hours lecture

Grading: letter grade

This course covers practices in real estate sales and brokerage, including prospecting, listing, advertising, financing, sales techniques, escrow, and ethics. This course is one of the required courses for persons seeking a Real Estate Salesperson license or a Real Estate Broker license. Transferable to CSU

REAL 84**3.0 units****Mortgage Brokering/Lending in California**

54 hours lecture

Recommended Preparation: REAL 80

Grading: letter grade

This course covers an introduction to mortgage brokering operations and orients students toward a career in the field. Topics covered include types of loans, loan processing, lending regulations, underwriting, loan submission, quality control, understanding credit information, loan packaging, and loan documents. Transferable to CSU

REAL 85**3.0 units****Real Estate Appraisal**

54 hours lecture

Grading: letter grade

This course covers principles and procedures of single-family, 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

REAL 86**3.0 units****Advanced Real Estate Appraisal**

54 hours lecture, 18 hours laboratory

Recommended Preparation: REAL 80 and REAL 85

Grading: letter grade

This course covers residential market analysis, highest and best use, site valuation, cost/sales comparison, income approaches to valuation, and appraisal report-writing 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 87**3.0 units****Real Estate Finance**

54 hours lecture

Grading: letter grade

This course is an introduction and analysis of real estate financing and lending policies. The course also introduces students to problems that may arise in the areas of financing residential, apartment, commercial and special purpose properties. The methods of financing properties are emphasized. Transferable to CSU

REAL 92A**3.0 units****Escrows and Land Titles**

54 hours lecture

Grading: letter grade

This competency-based course prepares students with skills for entry-level positions in an escrow office or to improve their knowledge in real estate. Focus is on understanding the escrow process and accurately completing necessary documents. This course may be used as an elective course for persons applying for the California Real Estate Salesperson or Real Estate Broker license. Transferable to CSU

REAL 253**3.0 units****Property Management**

54 hours lecture

Grading: letter grade

This course is a practical approach to the principles and practices of managing apartments and other income properties. Topics include leasing, owner and manager objectives, management plans, landlord-tenant law, evictions, prohibited discrimination, property maintenance; management office administration, and human relations. This course can be used as an elective course by persons applying for the Real Estate Salesperson's and Broker's licenses with the California Department of Real Estate.

RADIO AND TELEVISION

(R_TV)

R_TV 1

3.0 units

Introduction to Broadcasting

54 hours lecture

Grading: letter grade

Introduction to Broadcasting explores the evolution of mass media and its impact on society. The class will analyze methods the media uses to persuade the consumer and become an educated viewer and evaluate their tactics. Transferable to CSU

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 qualifications necessary for employment in this element of the entertainment industry. Guest speakers will discuss current industry issues and standards. Transferable to CSU

R_TV 3

2.5 units

Using MacIntosh Comp Entertainment Indus

36 hours lecture, 36 hours laboratory

Grading: letter grade

This course is designed for students to develop current computer operation skills and equipment systems related to the entertainment industry. No previous computer knowledge is necessary. It covers the basic use of hardware and certain software, Internet use, word processing, spreadsheet, database use, communications applications, and basic digital audio and video production. The course will explore specific examples of how various applications are used in the entertainment industry. Transferable to CSU

R_TV 4

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

2.5 units

Introduction to Media Production

36 hours lecture, 36 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

R_TV 12

2.5 units

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 13AD

2.5 units

Television Production

36 hours lecture, 36 hours laboratory

Grading: letter grade or pass/no pass

This course allows the student the opportunity to participate in the creation and production of television program material. Students will produce, direct and crew a variety of projects, such as news, interviews, commercials, dramas, comedies and instructional programs.

Transferable to CSU

R_TV 14AD

2.5 units

Electronic Field Production

36 hours lecture, 36 hours laboratory

Grading: letter grade or pass/no pass

This course is a study and application of the technical aspects of video, film and multimedia production in the field. Special attention will be dedicated to successful production strategies necessary for the unique problems associated with shooting in the field, such as equipment selection, lighting, audio and the environment. Issues related to acquisition format, such as film versus tape and analog versus digital, will be explored. Students will shoot projects in the field as "stand-alone" productions and as elements for edited productions. Editing will be covered as it relates to field production.

Transferable to CSU

R_TV 15AC**2.5 units****Advanced Television Production**

36 hours lecture, 36 hours laboratory
 Recommended Preparation: Audition
 Grading: letter grade

This class explores the creation and production of television program material with an emphasis on the quality of the finished product. Projects which students produce, direct and crew will be largely of their own choosing.
 Transferable to CSU

R_TV 21**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 aspects of radio station operation will be covered, such as management, sales, audience analysis and ratings.
 Transferable to CSU

R_TV 25AD**2.5 units****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 30AD**2.5 units****Broadcast Newswriting**

36 hours lecture, 36 hours laboratory
 Grading: letter grade

Students will learn to write, re-write and edit stories for radio, TV, or Internet distribution. Students will gain experience in discovering and researching news. Topics covered will include use of sound tracks, visuals, interviews, and the "local angle" or "human interest element." Some stories may be incorporated into the weekly student TV news show.
 Transferable to CSU

R_TV 34AD**2.5 units****Music Video Production**

36 hours lecture, 36 hours laboratory
 Recommended Preparation: R_TV 14AD
 Grading: letter grade or pass/no pass

This course provides an in depth exam of the components necessary to produce a music video, including completion of

a camera ready production proposal and a script of selected projects. Selected projects may be produced.
 Transferable to CSU

R_TV 35AD**2.5 units****Television Activity**

36 hours lecture, 36 hours laboratory
 Grading: letter grade or pass/no pass

This course provides an opportunity and responsibility to work in a variety of jobs involved in the video taping of various college events and/or projects or student selected projects in the television studio. Projects may be broadcast on the college cable channel and/or used in the student news show.
 Transferable to CSU

R_TV 36AD**2.5 units****Broadcast News Production**

36 hours lecture, 36 hours laboratory
 Grading: letter grade or pass/no pass

In this course students will learn various aspects of producing a television newscast. Students will participate in gathering information, writing, editing and producing news, sports, editorials, and weather segments. Students will work as managing editors, operate equipment, and edit video packages.
 Transferable to CSU

R_TV 37**3.0 units****Radio/Television Management and Sales**

54 hours lecture
 Grading: letter grade

This course provides an overview of the basic elements of broadcast and cablecast management. Topics covered include: advertising and sales techniques, ratings, station promotion, budgets, FCC policies, franchise agreements and negotiations, scheduling, contest considerations, liability elements and people skills.
 Transferable to CSU

R_TV 40AD**2.5 units****On-Camera Performance**

36 hours lecture, 36 hours laboratory
 Grading: letter grade

This course involves the practical application of performance techniques as applied to working in front of a camera. Performances are video-taped and analyzed which will help the student understand what is necessary in the preparation of audition material. Students will gain knowledge about each area responsible for a TV production.
 Transferable to CSU

R_TV 70**3.0 units****Fieldwork in Radio/Television**54 hours lecture
Grading: letter grade

This course covers topics including the employee's role and responsibilities in the Radio/Television/Film industry. It will also cover professional and desirable traits needed to gain employment in the entertainment industry. Emphasis will be placed on setting and achieving three fieldwork objectives and how to solve everyday issues and problems in the workplace. This course also covers guidelines for students to participate up to 125 hours of supervised fieldwork at a pre-approved work site as out of classroom assignments. The purpose of this course is to prepare students to be successful in obtaining employment in the Radio/Television/Film industry. Transferable to CSU

R_TV 71AD**2.0 units****Work Experience: Radio and Television**18 hours lecture, 74 hours laboratory
Corequisite: Concurrent enrollment in at least one additional course in the discipline.
Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time in radio, television, film, or multimedia directly related to an occupational goal or career of interest to the student. Transferable to CSU

R_TV 72AD**3.0 units****Work Experience: Radio and Television**18 hours lecture, 149 hours laboratory
Corequisite: Concurrent enrollment in at least one additional course in the discipline.
Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time in radio, television, film, or multimedia directly related to an occupational goal or career of interest to the student. Transferable to CSU

R_TV 73AD**4.0 units****Work Experience: Radio and Television**18 hours lecture, 225 hours laboratory
Corequisite: Concurrent enrollment in at least one additional course in the discipline.
Grading: letter grade or pass/no pass

This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational

learning experiences through employment/volunteer time in radio, television, film, or multimedia directly related to an occupational goal or career of interest to the student. Transferable to CSU

R_TV 216AC**2.5 units****Non-Linear Video & Film Editing**36 hours lecture, 36 hours laboratory
Recommended Preparation: R_TV 3
Grading: letter grade or pass/no pass

This course explores the process of non-linear video and film editing using Final Cut Pro.

SIGN LANGUAGE (SIGN)

SIGN 1A**3.0 units****American Sign Language, Beginning 1**54 hours lecture
Grading: letter grade or pass/no pass

This is a basic course in the instruction and practice in American Sign Language (ASL) and fingerspelling. Emphasis will be placed on the development of vocabulary, grammar, syntax, expressive, and receptive skills. This course includes an overview of the history of sign language and Deaf culture. Transferable to UC or CSU; see counselor for limitations

SIGN 1B**3.0 units****American Sign Language, Beginning 2**54 hours lecture
Prerequisite: SIGN 1A
Grading: letter grade or pass/no pass

Formerly COMDI 2B. This is the second half of the beginning course in the instruction and practice in American Sign Language (ASL) and fingerspelling. Emphasis will be placed on the development of vocabulary, grammar, syntax, expressive, and receptive skills. This course includes an overview of the history of Sign Language and Deaf culture. Transferable to UC or CSU; see counselor for limitations

SIGN 2A**3.0 units****American Sign Language, Intermediate 1**54 hours lecture
Prerequisite: SIGN 1A and SIGN 1B
Grading: letter grade or pass/no pass

This course is formally known as COMDI 3A. This is a course in intermediate instruction for the continuing student of ASL and fingerspelling. The purpose is to increase signing vocabulary, emphasizing practice in improving expressive and receptive conversational skills with the goal of increasing smoothness, clarity and speed of signing. The history of sign language and Deaf culture will also be discussed. Transferable to UC or CSU; see counselor for limitations

SIGN 2B**3.0 units****American Sign Language, Intermediate 2**

54 hours lecture

Prerequisite: SIGN 1A and SIGN 1B and SIGN 2A

Grading: letter grade or pass/no pass

This is a course in intermediate instruction for the continuing student of ASL and fingerspelling. The purpose is to increase signing vocabulary, emphasizing practice in improving expressive and receptive conversational skills with the goal of increasing smoothness, clarity, and speed of signing. The history of sign language and Deaf culture will also be discussed. This course is formally known as COMDI 3B. Transferable to UC or CSU; see counselor for limitations

SIGN 633**0.0 unit****Beginning Speech Reading (Lip Reading)**

36 hours laboratory

Grading: LBCC Non-Graded Course

This is a course in learning lip reading techniques for the hearing impaired. Special attention is given to communication difficulties of the hearing impaired. This course is formally known as COMDI 633.

SIGN 634**0.0 unit****Intermediate Speech Reading (Lip Reading)**

36 hours laboratory

Grading: LBCC Non-Graded Course

This course provides students with an intermediate degree of proficiency in lip reading skills to enhance communication for the hearing impaired. This course is formally known as COMDI 634.

SOCIOLOGY (SOCIO)

SOCIO 1**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**3.0 units****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**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**3.0 units****Race & Ethnic Relations in the U.S.**

54 hours lecture

Recommended Preparation: Enrollment in or Completion of SOCIO 1

Grading: letter grade

The sociological study of diverse racial and ethnic groups in the U.S., including Latino, Asian American, African American and Native American sub-groups is covered. The course also includes an analysis of migration patterns, stratification, gender, social movements and inter- and intra-group relations. An examination of how social, political, economic and historical forces affect contemporary race and ethnic relations will be included.

Transferable to UC or CSU; see counselor for limitations

SOCIO 13**3.0 units****Sociology of Latinos**

54 hours lecture

Grading: letter grade

This course is a survey of the sociology of Latinos in the United States, with a focus on their contemporary cultural and socio-economic conditions. Study will include a review of the immigration patterns of various Latino groups and their experiences with important social processes and institutions in the U.S. The effects of 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 40

3.0 units

Sociology of the Family

54 hours lecture

Recommended Preparation: SOCIO 1

Grading: letter grade or pass/no pass

This course will examine micro and macro sociological influences on, preparation for, and effects of contemporary family life, especially in the U.S. Considering options, problems and challenges of each, the following will be covered: mate selection, relationships, love, marriage, parenting, divorce, diversity, gender, 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

3.0 units

Honors Comparative World Cultures

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. These teams study two or more major cultures to determine how these human communities met their basic biological, material, religious and intellectual needs, and experienced both continuity and change through time. This course is part of the Honors Curriculum. This course is not open for credit to students who have completed Humanities 1, Humanities 1H, or Social Science 1.

Transferable to UC or CSU; see counselor for limitations

SOCSC 7

3.0 units

American Pluralism and Identity

54 hours lecture

Grading: letter grade or pass/no pass

This course explores the multicultural nature of American society from a Humanities and Social Sciences perspective. The course examines how ethnic groups in America have

constructed artistic, literary, musical, philosophical and religious identities based on their traditions and experiences and seeks to understand the United States as a common culture. Using the Social Sciences to compare and contrast the origins, living conditions and experiences of America's constituent populations, the course analyzes the complexity of the processes effecting the interaction of the American people. Not open to students registered in or with credit in HUMAN 7.

Transferable to UC or CSU; see counselor for limitations

STATISTICS

(STAT)

STAT 1

4.0 units

Elementary Statistics

72 hours lecture

Prerequisite: MATH 130, 130B or one year high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the LBCC assessment process for Math.

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 1H

4.0 units

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

THEATRE ARTS

(TART)

TART 1

3.5 units

Acting 1-Introduction to Acting

54 hours lecture, 36 hours laboratory

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course introduces the student to 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 two-person 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

TART 1B

2.0 units

Acting 1 - Movement

27 hours lecture, 27 hours laboratory

Prerequisite: TART 1 (may be taken concurrently)

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course 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

TART 1C

2.0 units

Acting 1 - Voice

27 hours lecture, 27 hours laboratory

Prerequisite: TART 1 (may be taken concurrently)

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Recommended Preparation: TART 1B

Grading: letter grade or pass/no pass

The course provides a lucid view of the voice as an instrument of human communication. Through a series of exercises the student will free, develop and strengthen their voice. The student will practically realize an actor's sensibilities through vocal expression.

Transferable to UC or CSU; see counselor for limitations

TART 1D

2.0 units

Acting 1 - Improvisation

27 hours lecture, 27 hours laboratory

Prerequisite: TART 1 (may be taken concurrently)

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

The course will consist of a n e x p l o r a t i o n o f t h e v a r i o u s 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

3.5 units

Acting 2-Technique & Characterization

54 hours lecture, 36 hours laboratory

Prerequisite: TART 1

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Recommended Preparation: TART 1B, 1C, or 1D, and TART 25 or TART 30

Grading: letter grade or pass/no pass

This course is a n i n v e s t i g a t i o n a n d d e v e l o p m e n t o f 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

2.0 units

Acting 2-The Spoken Text

27 hours lecture, 27 hours laboratory

Prerequisite: TART 1C

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course is a n i n v e s t i g a t i o n a n d d e v e l o p m e n t o f a character by students that further strengthens techniques of personalization, role analysis and character motivation 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

2.0 units

Acting 2-The Spoken Text

27 hours lecture, 27 hours laboratory

Prerequisite: TART 2A

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

Students will engage in the preparation and presentation of a wide range of spoken texts. The goal is to free, develop and

strengthen the student actor's voice so that the actor's unique sensibilities may be fully expressed through proper vocal use. Transferable to UC or CSU; see counselor for limitations

TART 2C **2.0 units**

Acting 2-Movement, Mime and Mask

27 hours lecture, 27 hours laboratory

Prerequisite: TART 1B

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course is an advanced application of the theory and principles of stage movement within specialized areas, such as mime, mask, 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 **2.0 units**

Acting 2-Movement, Mime and Mask

27 hours lecture, 27 hours laboratory

Prerequisite: TART 2C

Corequisite: TART 51AD

Grading: letter grade or pass/no pass

This course is an advanced application of the theory and principles of stage movement within specialized areas, such as mask characterization, period movement styles and stage combat.

Transferable to UC or CSU; see counselor for limitations

TART 3A **3.5 units**

Acting 3-Scene Study

54 hours lecture, 36 hours laboratory

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Recommended Preparation: TART 2 and TART 25

Grading: letter grade or pass/no pass

This course emphasizes specific performance skills and acting techniques utilizing classical scene selections, emphasizing Western playwrights of the 16th and 17th century, to heighten the intensity of the acting experience for the serious theatre student.

Transferable to UC or CSU; see counselor for limitations

TART 3B **3.5 units**

Acting 3-Scene Study

54 hours lecture, 36 hours laboratory

Prerequisite: TART 3A

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

While utilizing classical scene selections, this course emphasizes Western playwrights of the 18th and 19th centuries. The focus is on the development of specific performance skills and acting techniques for the purpose of heightening the intensity

of the acting experience for the serious theatre student. Transferable to UC or CSU; see counselor for limitations

TART 4 **3.5 units**

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 12 **3.5 units**

Beginning Acting

54 hours lecture, 36 hours laboratory

Grading: letter grade or pass/no pass

For the student for whom acting is an avocation, this course introduces the student to beginning acting techniques and theatrical creative process. The student actor discovers and explores in him/herself qualities and experiences which are legitimate dimensions of the role he/she is creating. The course explores theatrical concepts through relaxation, concentration, sensory awareness, imagination, acting games and acting exercises as the student acquires basic insights into acting for the theatre. Transferable to UC or CSU; see counselor for limitations

TART 13 **3.5 units**

Intermediate Acting

54 hours lecture, 36 hours laboratory

Prerequisite: TART 12

Recommended Preparation: TART 25

Grading: letter grade or pass/no pass

Formerly TART 13A. For the student for whom acting is an avocation, this course is an investigation and development of a character that further strengthens techniques of personalization, character analysis and motivation while including such theatrical disciplines as sense memory, emotional memory and improvisation. Additionally, continued, advanced theatrical game playing, (theatre sports and improv games) is explored. Technical and imaginative development of voice and body skills are enhanced utilizing the works of major playwrights within the last hundred years. Transferable to UC or CSU; see counselor for limitations

TART 25 **3.0 units**

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 30 **3.0 units**

Introduction to Dramatic Literature

54 hours lecture

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This introduction to the dramatic literature of the Western world, including American drama from early beginnings to present day, examines dramatic structures, concepts, styles and themes of a selection of representative plays. The influence of the theatre and dramatic literature as a social and cultural force of change through the ages is also explored.

Transferable to UC or CSU; see counselor for limitations

TART 39AD **1.0 unit**

Theatre Practicum

72 hours laboratory

Grading: letter grade or pass/no pass

This course is a hands-on, practical introduction to the function of stage, costume/wardrobe and make-up technicians and their contribution to dramatic productions. This course includes organization of the stage, lighting and properties departments, costume and make-up departments in the running of a theatre production, including equipment use and maintenance, and the function of technical stage personnel in production work.

Transferable to UC or CSU; see counselor for limitations

TART 40 **3.0 units**

Stage Craft

36 hours lecture, 54 hours laboratory

Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course.

Grading: letter grade or pass/no pass

Formerly TART 40AD. This course is a study of the theory, techniques and application of scenic design for the stage including the use of painting, construction and manipulation of stage scenery. Students will gain practical experience in construction of scenery for Theatre Arts Department productions.

Transferable to UC or CSU; see counselor for limitations

TART 42 **3.0 units**

Introduction to Stage Lighting

36 hours lecture, 54 hours laboratory

Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course.

Grading: letter grade or pass/no pass

Formerly TART 42AD. 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

TART 43 **3.0 units**

Introduction to Stage Costume

36 hours lecture, 54 hours laboratory

Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course.

Grading: letter grade or pass/no pass

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 and 51AD. You must enroll in the corequisite courses before enrolling in this course.

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

Corequisite: TART 51AD

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 **2.5 units**

Rehearsal and Performance

144 hours laboratory

Prerequisite: TART 1 (may be taken concurrently)

Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.

Grading: letter grade or pass/no pass

This course focuses on the application of acting and technical theatre theory through lab exploration in all aspects of one act play productions. It develops acting and crew capabilities, skills and disciplines through auditions, rehearsals and public performances. Students will participate in two play productions.

Transferable to UC or CSU; see counselor for limitations

TART 50/1 **0.5 unit**

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 50/2 **1.0 unit**

Major Production Performance

72 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 50/3 **2.0 units**

Major Production Performance

108 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 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

TART 50AD **2.5 units**

Major Production Performance

144 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 51AD

1.0 unit

Theatre Forum

18 hours lecture

Grading: letter grade or pass/no pass

This course affords the student participation as an audience member in weekly programs dealing with the art of theatre, including scene work, one-act plays, special presentations and fully staged productions. It provides live performance experience for the student to experience the work collaboration by various theatre artists such as the playwright, producer, director, choreographer, designer, performer, stage manager, technician.

Transferable to CSU

TART 55 **3.0 units**

Stage Makeup

36 hours lecture, 54 hours laboratory

Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course.

Grading: letter grade or pass/no pass

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

TART 56 **3.0 units**

Intermediate Stage Makeup

36 hours lecture, 54 hours laboratory

Prerequisite: TART 55

Corequisite: TART 39AD and TART 51AD. You must enroll in the corequisite courses before enrolling in this course. Grading: letter grade or pass/no pass

Formerly TART 56AD. 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 75 **2.0 units**

Summer Repertory Theatre: Performance

126 hours laboratory

Corequisite: TART 76

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 76**2.0 units****Summer Repertory Theatre: Production**

126 hours laboratory
 Grading: 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 201**1.5 units****Show Business Careers-How to Start**

18 hours lecture, 36 hours laboratory
 Prerequisite: TART 1
 Grading: letter grade or pass/no pass

This course will examine primary and secondary show business career options available in the greater Los Angeles area, as well as other geographic regions. The course specifics will include, but not be limited to: On & off camera behavior, agenting, producing, unions, broadcasting and production trades.

TART 204**1.5 units****Marketing Yourself for Show Business**

18 hours lecture, 36 hours laboratory
 Prerequisite: TART 1
 Grading: letter grade or pass/no pass

This course examines aspects of show business career self marketing. This course content will explain all avenues of options in a hands-on style. This course will include, but not be limited to: Photographs, websites, professional publications, Union programs and guest lecturers.

TART 205**3.5 units****Auditions for Theatre and Film**

54 hours lecture, 36 hours laboratory
 Prerequisite: TART 1
 Recommended Preparation: TART 1B and TART 1C and TART 2
 Grading: letter grade or pass/no pass

This course prepares performers for the practical application of the professional audition process. Course exercises assist in developing an actors 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 206B**1.5 units****Audition and Interview Skills - Advanced**

18 hours lecture, 36 hours laboratory
 Prerequisite: TART 206A
 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 208A**1.5 units****Breaking into Commercials - Beginning**

18 hours lecture, 36 hours laboratory
 Prerequisite: TART 1
 Grading: letter grade or pass/no pass

This course examines fundamental aspects of television commercials in the greater Los Angeles area, as well as other geographic regions. The course specifics will include, but not be limited to: national, regional, local and wild spots as well as auditioning, product copy, sponsors, pay tables, residuals, and headshots.

TART 208B**1.5 units****Breaking Into Commercials - Advanced**

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 210A**1.5 units****Voice-Over Techniques - Beginning**

18 hours lecture, 36 hours laboratory
 Prerequisite: TART 1
 Recommended Preparation: TART 1C
 Grading: letter grade or pass/no pass

This course is an examination of preliminary techniques for commercial and theatrical voice-overs. Course topics will

include but not be limited to feature film additional dialogue recording, animation, looping techniques and network promotionals as well as Video games.

TART 210B **1.5 units**

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 212A **1.5 units**

Acting in Film - Beginning

18 hours lecture, 36 hours laboratory

Prerequisite: TART 1

Grading: letter grade or pass/no pass

This course is an examination of beginning techniques for acting in film. Course topics will include but not be limited to, studio format, on location, tracking, steady-cam, and multiple camera and digital aspects.

TART 212B **1.5 units**

Acting in Film - Advanced

18 hours lecture, 36 hours laboratory

Prerequisite: TART 212A

Grading: letter grade or pass/no pass

This course is an examination of multiple aspects and advanced techniques for acting in film. Topics will include but not be limited to, studio, on location, multi-camera, steady-cam and digital aspects.

TECHNOLOGY

(TEC)

TEC 10 **1.0 unit**

Introduction to Engineering Technology

18 hours lecture

Grading: letter grade or pass/no pass

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 CSU

TEC 60 **4.0 units**

Computer Aided Design and Drafting (CADD)

54 hours lecture, 54 hours laboratory

Recommended Preparation: ARCHT 60 or ARCHT 61 or DRAFT 51A

Grading: letter grade

Formerly TEC 60AD. This course introduces students to new and emerging software and equipment technologies as they become integrated in varied technical design fields. Classes may present Computer Aided Drafting and Design, CADD, parametric software programs, presentation graphics and/or various 3D printing technologies. The course is designed to enhance and upgrade the software and hardware skills of mechanical engineers, architects, interior designers, civil engineers and students employed in other design related occupations.

Transferable to CSU

TEC 211 **3.0 units**

Print Reading for Industry

54 hours lecture

Grading: letter grade or pass/no pass

This course introduces designers/drafters to the theory, techniques, and application of mechanical drawing systems in the fields of engineering technology, engineering, and mechanical design as related to manufacturing industries such as aerospace and automotive. The course addresses industry standards required to establish universal interpretation of technical drawings to ensure the consistency of manufactured goods and assembled products.

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 211 **9.0 units**

Fundamentals of Welding & Tools of Trade

90 hours lecture, 239 hours laboratory

Grading: letter grade or pass/no pass

This course is an introduction to welding, emphasizing oxy-acetylene welding, oxy-acetylene cuttings, braze welding

and pipefitting. It is suitable for students majoring in other occupational areas, such as auto body repair, auto mechanics, machine tool or aircraft maintenance. Good health, manual dexterity and corrected or uncorrected 20/20 vision are necessary to be employable in the welding industry. Students are required to attend 5 hours at the Career Technical Education (CTE) success center for specially designed activities and assignments that relate to this course content.

WELD 212 **4.0 units**

Introduction to Shielded Metal Arc 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. 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**

Intro to Semi-Automatic 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 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 214 **4.0 units**

Introduction to Gas Tungsten Arc 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 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 221 **3.0 units**

Arc Welding Structural Certification

54 hours lecture
Recommended Preparation: WELD 212
Grading: letter grade or pass/no pass

This course is designed to prepare students to take the Los Angeles City Certification test in structural steel welding. It provides additional instructions in the practical hands on welding. It is also designed for students who wish to advance their knowledge and skills in welding. The course includes safety, electrode identification, welding code applications and basic welding metallurgy.

WELD 400 **2.0 units**

Welding (General)

18 hours lecture, 54 hours laboratory
Grading: letter grade or pass/no pass

This course teaches the basic oxygen acetylene, inert gas including GTAW (TIG-heliarc), and arc welding processes. The student will learn welding of carbon steel, stainless steel, aluminum, and GMAW (MIG) of steel and aluminum. This class instruction also covers correct equipment setup, safety practices and general related information.

WELD 410 **2.0 units**

Welding (ARC)

108 hours laboratory
Grading: letter grade or pass/no pass

This course covers the techniques of arc welding of steels, cast iron, aluminum, hard facing, cutting, safety practices and related information.

WELD 411 **1.0 unit**

Welding (ARC)

54 hours laboratory
Grading: letter grade or pass/no pass

This course provides practice in arc welding procedures on various types of metal and the opportunity to learn safety practices.

WELD 412 **3.0 units**

Shielded Metal Arc Welding (ARC)

162 hours laboratory
Grading: letter grade or pass/no pass

This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 162 lab hours.

WELD 413 **2.0 units**

SMAW Flat/Horz Groove Welds with Backing

108 hours laboratory
Recommended Preparation: WELD 212
Grading: 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 414 **2.0 units****SMAW Vert & OV/HD Grv Welds w/ Backing**

108 hours laboratory

Recommended Preparation: WELD 212

Grading: letter grade or pass/no pass

This is an advance course in SMAW (Shielded Metal Arc Welding) fundamentals with emphasis on structural 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

Recommended Preparation: WELD 212

Grading: letter grade or pass/no pass

This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 108 lab hours.

WELD 416 **2.0 units****SMAW Vert & O/H Open Root Groove Welds**

108 hours laboratory

Recommended Preparation: WELD 212

Grading: letter grade or pass/no pass

This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 108 hours.

WELD 460 **2.0 units****Welding (Acetylene Gas)**

108 hours laboratory

Grading: letter grade or pass/no pass

This course explores the techniques of oxy-acetylene gas welding of steels and aluminum, hard facing, flame cutting, brazing and oxy-hydrogen welding. Safety practices and general related information is included.

WELD 461 **1.0 unit****Oxygen Acetylene Welding**

54 hours laboratory

Grading: letter grade or pass/no pass

This course is a study of the techniques of oxy-acetylene gas welding of steels and aluminum, hard facing, flame cutting, brazing, oxy-hydrogen welding and safety practices.

WELD 480 **2.0 units****Welding (Inert Gas)**

108 hours laboratory

Recommended Preparation: 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

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

Recommended Preparation: WELD 214

Grading: letter grade or pass/no pass

This course will address the techniques of Tungsten Inert Gas arc welding (TIG) of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program and it requires the completion of 108 lab hours.

WELD 483 **2.0 units****Gas Metal Arc/Flux Core Arc Welding**

108 hours laboratory

Recommended Preparation: WELD 213

Grading: letter grade or pass/no pass

This course will address the techniques of Gas Metal Arc Welding (GMAW) and Flux Core Arc Welding (FCAW) of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/exit program, and it requires the completion of 108 lab hours.

WELD 601 **0.0 unit****Welding Practice**

18 hours laboratory

Grading: LBCC Non-Graded Course

This course offers the new student or a former student additional assistance in welding and or helps improve mastery of a specific welding position. Also, a student can use this course to practice for a practical performance test.

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All information contained herein is subject to change without notice.

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

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

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

GRADUATION PROFICIENCY REQUIREMENTS

MATHEMATICS: A qualifying score on the LBCC Assessment Test which places a student in MATH 37, 37H, 40, 45, STAT 1, 1H, or higher; or successful completion with a grade of "C", "P", or higher in a college math course at the level of MATH 120 or 130 or 130A or 140 or 125 or 115 or higher.

READING--Satisfying this proficiency may be achieved by any one of the following:
 • A qualifying score achieved through multiple LBCC assessment measures OR
 • Completion of READ 82 or 83 ("C", "P" or better) at LBCC (courses taken at other colleges may be individually reviewed for equivalency by the Reading Department Chair) OR
 • A Bachelor's Degree from an accredited college or university.

WRITING--Complete ENGL 1 or 1H with a grade of "C" or better.

INFORMATION COMPETENCY REQUIREMENT: Information Competency is the ability to find, evaluate, use and communicate information in all its various formats. It combines aspects of library literacy, research methods and technology proficiency.

Students must complete ONE course from INFORMATION and ONE course from TECHNOLOGY (courses MUST be completed with a grade of "C" or better):

INFORMATION
complete one course from:
ENGL 1, 1H, 3, 3H
LIB 1, 3

TECHNOLOGY
complete one course from:
COSA 1, 5, 20, 25, 30, 35, 50
COSK 200
CPAS 1, 10

AREA REQUIREMENTS

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

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

ENGLISH COMPOSITION

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

ENGL 1, 1H

_____	_____	_____
units	course	grade
course from: _____		

COMMUNICATION AND ANALYTICAL THINKING

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

<u>BCOM 15</u>	<u>ENGL 3, 3H, 4, 4H</u>
<u>COMM 10, 10H, 20, 25, 30, 60</u>	<u>LIB 3</u>
<u>COSP 8, 10</u>	<u>MATH 27, 28, 37, 37H, 40, 45, 47, 50, 50H, 60, 60H, 70, 70H, 80, 84, 120, 130,</u>
<u>CS 11, 21</u>	<u>130A, 130B</u>
<u>COUNS 2</u>	<u>PHIL 11, 12, 22</u>
<u>CPAS 2</u>	<u>READ 82, 83, 84</u>
<u>ELECT 225</u>	<u>STAT 1, 1H</u>

_____	_____	_____
units	course	grade
course from: _____		

NATURAL SCIENCES

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

Physical Sciences:
ASTR 1, 1H, 1L
CHEM 1A, 1B, 2, 3, 12A, 12B
ENVR 1
GEOL 1, 1H, 2, 2F, 2L, 3, 3H, 4, 5, 7, 16, 17, 18
PGEOG 1, 1L, 2
PHYS 2A, 2B, 3A, 3B, 3C

Biological Sciences:
ANAT 1, 41
ANTHR 1, 1H
BIO 1A, 1B, 2, 5, 11, 20, 20H, 22, 25, 28, 30, 31, 37, 41, 41H, 41L, 41LH, 60, 60L, 61
PHYSI 1

_____	_____	_____
units	course	grade
course from: _____		

SOCIAL SCIENCES

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

ANTHR 2, 2H, 3, 3H
CDECE 45, 47
ECON 1, 1H, 2, 2H, 3, 4, 5⁴
FD 32
GEOG 2, 5⁴, 40, 48
HLED 10⁴
HIST 1A, 1AH, 1B, 1BH, 2B, 2C, 2CH, 5A, 5B, 9A, 9B, 9C, 18, 25, 27A, 27B, 48
 (HIST 8A, 8B, 10, 11 may be taken for the A.S. degree)

POLSC 2, 4, 9, 10, 11
 (POLSC 1, 1H, 3 may be taken for the A.S. degree)
PSYCH 1, 1H, 2, 4, 10⁴, 11, 14, 33
PUBAD 1
SOCS 1⁴, 1H⁴, 7⁴
SOCIO 1, 1H, 2, 11, 13, 40

_____	_____	_____
units	course	grade
course from: _____		

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

ECON 5 = GEOG 5: The Global Economy
 HUMAN 1/1H = SOCS 1/1H: Comparative World Cultures/Honors CWC
 HUMAN 3 = PHIL 3: Intro to Issues/Phil, Psych & Religion
 HUMAN 7 = SOCS 2: American Pluralism and Identity
 HLED 10 = PSYCH 10: Human Sexuality

AMERICAN HISTORY
(not required for the A.S. Degree)

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

HIST 8A, 8AH, 8B, 8BH, 10, 10H, 11, 11H, 25, 27A, 27B

Note: Students are no longer required to take both 8A/8AH and 8B/8BH at LBCC. Students may now take either 8A/8AH or 8B/8BH to fulfill the history portion of the U.S. History, Constitution, and American Ideals requirements. (Retrospective to Fall 2004)

_____	_____	_____
units	course	grade
course from: _____		

POLITICAL SCIENCE
(not required for the A.S. Degree)

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

POLSC 1, 1H, 3

_____	_____	_____
units	course	grade
course from: _____		

HUMANITIES AND ARTS

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

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

- HUMAN 1⁴, 1H⁴, 7⁴
- ITAL 1, 2
- JAPAN 1, 2, 3, 4
- LING 1
- MUSIC 6, 28AD, 30A, 30B, 32, 33B, 35, 40, 40H, 89,
- PHIL 3⁴, 6, 6H, 7, 7H, 8, 9, 10, 14, 15, 16
- PHOTO 10
- R TV 1
- SPAN 1, 2, 3, 4, 8, 9, 9H, 10, 10H, 25A, 25B, 25C, 25D
- TART 1, 25, 30
- VIET 1, 2

units	course	grade
course from:		

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

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

PHYSICAL FITNESS/WELLNESS

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

One UNIT Required--choose from:

- DANCE: 3, 5, 6, 8, 12A, 13, 14, 17, 18A, 18B, 20, 21, 26, 29, 31, 32, 33, 41/1, 41/2, 41/3, 41AD
- F N: 26, 250, 255C, 255D, 256, 260, 261, 262
- HLED 21, 22, 24
- KINA: 1AD
- KING: 2, 2B, 10, 10B, 14, 14B, 55, 65, 65B, 66, 66B, 70, 70B, 74, 76, 84, 86, 90, 90B, 92, 92B, 94
- KINIA: 1AD, 2AD, 3AD, 5AD, 7AD, 13AD, 15AD, 19AD, 21AD, 23AD, 27AD, 29AD, 35AD, 37AD, 39AD, 41AD, 43AD, 45AD, 47AD,
- KINPE: 3, 4, 6, 8, 8B, 10, 10B, 12, 12B, 14, 17, 17B, 18, 18B, 21, 22, 22B, 23, 24, 42, 53, 54, 54B, 81, 84A, 84B
- KINPP: 7, 10, 12, 15, 17
- TART: 1B, 2C

units	course	grade
course from:		

HEALTH EDUCATION

3 Units Minimum Required--choose from:

One class chosen from: F N 20 HLED 3, 4, 5	OR	BIO 60 & 61 & PSYCH 1 ⁺ or ANAT 41 & DMI 60 & PSYCH 1 ⁺ or ANAT 1 & PHYSI 1 & PSYCH 1 ⁺
--	----	--

+--All courses grouped in boxes must be completed to satisfy the requirement.

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

OTHER GRADUATION REQUIREMENTS

G.P.A. REQUIREMENTS

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

CONTINUOUS ENROLLMENT

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

COURSE TOTALS:

General Education Units Completed:	<input type="text"/>	+	Field of Concentration (Major) Units Completed:	<input type="text"/>	+	General Elective Units Completed:	<input type="text"/>	=	Overall Total Units: MUST EQUAL AT LEAST 60 units.	<input type="text"/>
General Education Units Total must equal: 25 units§ for the A.A. 19 units§ for the A.S. For Graduation: Complete a minimum of 60 AA/AS applicable units (LBCC courses numbered 1-599). Some fields of concentration may require more units--consult the appropriate curriculum guide (http://osca.lbcc.edu). §Any course that appears on a curriculum guide and the General Education Pattern (Plan A) may fulfill both major and general education requirements (Approved by College Curriculum Committee Spring 2012 and applicable retroactively).										

DEGREE RESIDENCY

Meet one of the following requirements:

- A) Minimum of 20 units within the last 30 units applied to the degree must be completed at LBCC
- OR
- B) at least 50% of the units required for a degree must be completed at LBCC.

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

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

FIELD OF CONCENTRATION (MAJOR) RESIDENCY

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

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

APPLICATION FOR GRADUATION

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

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

2016-2017 Plan A Checklist: Published May 2016,
 Long Beach City College Office of School and College Articulation.
 All information contained herein is subject to change without notice.

All information contained herein is subject to change without notice.

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

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

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

AREA REQUIREMENTS

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

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

AREA A1: ORAL COMMUNICATION

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

COMM 10, 10H, 20, 30, 60

_____	_____	_____
units	course	grade
course from: _____		

AREA A2: WRITTEN COMMUNICATION

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

ENGL 1, 1H

_____	_____	_____
units	course	grade
course from: _____		

AREA A3: CRITICAL THINKING

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

COMM 60 READ 84
CPAS: 2
ENGL 3, 3H, 4, 4H
PHIL 11, 12, 22

_____	_____	_____
units	course	grade
course from: _____		

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

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

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

Area B1--Physical Sciences:

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

Area B2--Biological Sciences:

Complete 1 class
ANAT 1◆, 41◆
ANTHR 1, 1H
BIO 1A◆, 1B◆, 2◆, 5◆, 11, 20◆, 20H◆, 22, 25, 30◆, 41, 41H, 41L◆, 41LH◆, 60, 60L◆, 61
PHYSI 1◆

_____	_____	_____
B1 units	B1 course w/ lab? Y or N	B1 grade
course from: _____		
_____	_____	_____
B2 units	B2 course w/ lab? Y or N	B2 grade
course from: _____		

AREA B4: MATHEMATICS/QUANTITATIVE REASONING

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

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

_____	_____	_____
units	course	grade
course from: _____		

AREA C: ARTS & HUMANITIES

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

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

Area C1--Arts--choose from:

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

Area C2--Humanities--choose from:

CHIN 1, 2
ENGL 2, 2H, 26, 32, 33, 33H, 35, 36, 37, 38, 39, 41, 42, 43A, 43B, 44, 44H, 45, 45H, 46, 47, 48, 48H, 49, 49H
FREN 1, 2, 3, 4, 25A
GER 1, 2
HIST 1A, 1AH, 1B, 1BH, 2B, 2C, 2CH, 5A, 5B, 8A, 8AH, 8B, 8BH, 9A, 9B, 9C, 10, 10H, 11, 11H, 18, 25, 27A, 27B
HUMAN 1◆, 1H◆, 7◆
ITAL 1, 2
JAPAN 1, 2, 3, 4
LING 1
PHIL 3◆, 6, 6H, 7, 7H, 8, 9, 10, 14, 15, 16
SOCS 1◆, 1H◆, 7◆
SPAN 1, 2, 3, 4, 9, 9H, 10, 10H, 25A, 25B, 25C, 25D
VIET 1, 2

_____	_____	_____
C1 units	C1 course	C1 grade
course from: _____		
_____	_____	_____
C2 units	C2 course	C2 grade
course from: _____		
_____	_____	_____
units	third course	grade
course from: _____		

AREA D: SOCIAL SCIENCES

Area D--Three Classes Required (9 units minimum)

Area D--Students must take courses from at least 2 different disciplines

- | | |
|---|--|
| <p><u>ANTHR</u> 2, 2H, 3, 3H, 10
 <u>CDECE</u> 45
 <u>COMM</u> 25
 <u>ECON</u> 1, 1H, 2, 2H, 3, 4, 5*
 <u>GEOG</u> 2, 5*, 40
 <u>HIST</u> 1A, 1AH, 1B, 1BH, 2B, 2C, 2CH, 5A,
 5B, 8A, 8AH, 8B, 8BH, 9A, 9B, 9C, 18, 25,
 27A, 27B</p> | <p><u>HUMAN</u> 1*, 1H*, 7*;
 <u>PHIL</u> 3*, 10, 15, 16
 <u>POLSC</u> 1, 1H, 2, 3, 4, 9, 10, 11
 <u>PSYCH</u> 1, 1H, 11, 14, 33
 <u>PUBAD</u> 1
 <u>SOCS</u> 1*, 1H*, 7*
 <u>SOCIO</u> 1, 1H, 2, 11, 13, 40</p> |
|---|--|

Note: Effective Fall 2016, Area D (Social Sciences) will no longer be categorized by sections D1 - D0

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

AREA E: LIFELONG LEARNING & SELF-DEVELOPMENT

3 Units Minimum Required--choose from:

- Complete One class from:
CDECE 45, 47 PSYCH 4, 10
COUNS 2, 7
FN 20
GBUS 10
HLED 3, 4, 5, 10*
KINPP 1, 4
LEARN 11, 11H

OR Complete one of the following:
(KINPP 12 & 1 unit KIN Activity)*

+--All courses grouped together must be completed to satisfy the requirement.

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

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

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

CSU Graduation Requirement

Complete both the History and Political Science sections below:

Students may complete this requirement after transfer to a CSU.

History: 3 Units Minimum Required--choose from:
HIST 8A, 8AH, 8B, 8BH, 10, 10H, 11, 11H

Political Science: 3 Units Minimum Required--choose from:
POLSC 1, 1H

Notes: 1) Students are no longer required to take both 8A/8AH and 8B/8BH at LBCC. Students may now take either 8A/8AH or 8B/8BH to meet the History portion of the U.S. History, Constitution, and American Ideals Graduation requirement. (Retroactive to Fall 2004). 2) HIST 8A, 8AH, 8B, 8BH, 10, 10H, 11, 11H, POLSC 1, 1H may be used for GE and the U.S. History, Constitution and American Ideals requirement (Retroactive to Fall 2011).

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

ADDITIONAL INFORMATION

ADMISSIONS

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

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

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

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

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

Priority Application Filing Periods:

- Fall Quarter/Semester: October 1 - November 30
- Winter Quarter/Semester: June 1 - 30
- Spring Quarter/Semester: August 1 - 31
- Summer Quarter: February 1 - 28

Check with counselor for open filing periods

CERTIFICATION

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

Certification requirements:

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

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

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

LEGEND

+ All courses grouped in parentheses "(+)" must be completed to satisfy the requirement.

◆ Denotes laboratory classes.

◀ Cross-listed courses. A cross-listed course is interdisciplinary and is the same course as its cross-listed counterpart. A cross-listed course CANNOT be used in more than one discipline NOR can it be used to certify more than one area on Plan B:

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

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

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

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

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

AREA REQUIREMENTS

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

AREA 1A: ENGLISH COMPOSITION

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

ENGL 1, 1H

units	course	grade
course from: _____		

AREA 1B: CRITICAL THINKING AND COMPOSITION

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

ENGL 3, 3H, 4, 4H

units	course	grade
course from: _____		

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

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

NOTE: This area required by CSU only.

COMM 10, 10H, 30, 60

units	course	grade
course from: _____		

AREA 2: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING

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

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

units	course	grade
course from: _____		

AREA 3: ARTS AND HUMANITIES

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

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

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

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

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

ENGL 32, 33, 33H, 35, 36, 37, 38, 39, 41, 42, 43A, 43B, 44, 44H, 45, 45H, 46, 47, 48, 48H, 49*, 49H*
FREN 3, 4, 25A
HIST 1A, 1AH, 1B, 1BH, 2B, 2C, 2CH, 5A, 5B, 8A, 8AH, 8B, 8BH, 9A, 9B, 9C, 10*, 10H*, 11*, 11H*
18, 25, 27A, 27B
HUMAN 1*, 1H*, 7*
JAPAN 3,
LING 1
PHIL 3*, 6, 6H, 7, 7H, 8, 9, 10, 14, 15, 16
SOCSOC 1*, 1H*, 7*
SPAN 3*, 4*, 9*, 9H*, 10*, 10H*, 25A, 25B, 25C, 25D

units	course	grade
course from: _____		

units	course	grade
course from: _____		

units	third course	grade
course from: _____		

AREA 4: SOCIAL AND BEHAVIORAL SCIENCES

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

Students must take courses from at least 2 different disciplines.

ANTHR 2, 2H, 3, 3H, 10
COMM 25
ECON 1, 1H, 2, 2H, 3, 4, 5 *4
GEOG 2, 5*4, 40
HUMAN 1*, 1H*, 7*

PHIL 3*, 10, 15, 16
POLSC 1, 1H, 2, 3, 4, 9, 10, 11
PSYCH 1, 1H, 11, 14
SOCIO 1, 1H, 2, 11, 13, 40
SOCSOC 1*, 1H*, 7*

units	course	grade
course from: _____		

units	course	grade
course from: _____		

units	course	grade
course from: _____		

Note: Effective Fall 2016, Area 4 (Social and Behavioral Sciences) will no longer be categorized by sections 4A- 4J.

AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES

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

◆--Denotes Laboratory Classes.

NOTE: One class in this area must include an associated laboratory component (Area 5C).

Area 5A--Physical Sciences: One Class Required (3 units minimum)

- ASTR 1, 1H, 1L*
- CHEM 1A*, 1B*, 2**, 3*
- GEOL 1**, 1H**, 2*, 2L*, 3*, 3H*, 5, 18
- PGEOG 1, 1L*, 2
- PHYS 2A**, 2B**, 3A**, 3B**, 3C**

Area 5B--Biological Sciences: One Class Required (3 units minimum)

- ANAT 1**, 41**
- ANTHR 1, 1H
- BIO 1A*, 1B*, 2*, 5**, 20*, 20H*, 30**, 41*, 41H*, 41L**, 41LH**, 60*, 60L**, 61*
- PHYS 1**

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

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

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

- Completion of two years of foreign language in high school with a grade of "C" or better. (OR)
- Performance on foreign language proficiency tests administered at a campus of the UC. (OR)
- Earn a score of 550 on an appropriate College Board Achievement Test. (OR)
- Satisfactory score, 3 or higher, on the College Board Advanced Placement examinations in languages other than English. (OR)
- Satisfactory score, 5 or higher on the International Baccalaureate Higher Level Examinations in languages other than English.

- Completion of a second or more advanced level of foreign language course offered at LBCC, chosen from:
 - CHIN 2
 - FREN 2, 3, 4
 - GER 2
 - ITAL 2
 - JAPAN 2, 3
 - SIGN 1B, 2A, 2B
 - SPAN 2, 3, 4, 9, 9H, 10, 10H
 - VIET 2

units	course	grade
course from: _____		

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

CSU Graduation Requirement
Complete both the History and Political Science sections below:
Only courses completed at LBCC may be used to certify this requirement.

Students may complete this requirement after transferring to a CSU.

◆ History: 3 Units Minimum Required--choose from: HIST 8A, 8AH, 8B, 8BH, 10, 10H, 11, 11H
 ◆ Political Science: 3 Units Minimum Required--choose from: POLSC 1, 1H

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

ADDITIONAL INFORMATION

UC ADMISSIONS

Minimum admission requirements include:

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

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

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

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

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

UC Priority Application Filing Periods:

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

Check with counselor for open filing periods

CSU ADMISSIONS

Minimum admission requirements include:

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

CSU transferable units are LBCC courses numbered 1-99.

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

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

CSU Priority Application Filing Periods:

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

Check with counselor for open filing periods

IGETC CERTIFICATION

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

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

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

LEGEND

- ◆ Denotes laboratory classes.
- * Indicates course limitations may exist. For an explanation of limitation, please refer to the UC Transfer Course Agreement, which is available on the ASSIST web site at www.assist.org
- ◆ **Cross-listed courses.** A cross-listed course is interdisciplinary and is the same course as its cross-listed counterpart. A cross-listed course CANNOT be used in more than one discipline NOR can it be used to certify more than one area on Plan C:
 - ECON 5 = GEOG 5: The Global Economy
 - HUMAN 1/1H = SOCSC 1/1H: Comparative World Cultures/Honors CWC
 - HUMAN 3 = PHIL 3: Intro to Issues/Phil, Psych & Religion
 - HUMAN 7 = SOCSC 7: American Pluralism and Identity
 - HLED 10 = PSYCH 10: Human Sexuality

◆ Notes: 1) Students are no longer required to take both 8A/8AH and 8B/8BH at LBCC. Students may now take either 8A/8AH or 8B/8BH to fulfill the History portion of the U.S. History, Constitution, and American Ideals Requirement (Retroactive to Fall 2004). 2) HIST 8A, HIST 8AH, 8B, 8BH, 10, 10H, 11, 11H, POLSC 1, 1H may be used for GE and the CSU U.S. History, Constitution and American Ideals requirement (Retroactive to Fall 2011).

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